





China Banks

Brace for a much worse NPL cycle amid COVID-19

Prefer defensive names ahead of coming multi-year NPL cycle

With global spread of COVID-19 and UBS-e China 2020 GDP cut to 1.5%, following our deep-dive report on China banks NPL cycle, we raise our shock-driven NPL forecast from Rmb2.0trn to Rmb5.8trn, to be recognised over the next few years. While we estimate a material uptick in sector NPL and SML ratio to 3.0%/5.6% by end-2020, from 1.9%/2.9%, we expect earnings impact to be milder (2020E: -5%) with stimulus policies, abundant market liquidity, and NPL forbearance. We downgrade Ping An Bank to Neutral on concern of near-term pressure on consumer lending. We also downgrade BOC (A&H) to Neutral on further NIM pressure and headwinds in overseas markets. We cut our 2020/21 NPAT estimates by 7%/8%, and forecast 2020 NPAT growth of 0.2%/-1.7% for big 4 banks/ joint-stock banks (JSB). We lower our price targets for China bank stocks across the board on weaker earnings outlook and higher COE assumption. CCB, ICBC and PSBC are our only Buys in the H-share universe (Figure 1).

NIM to come under pressure, but better off than global peers

We expect material headwinds on sector NIM in 2020, including ongoing LPR adoption on outstanding loans, more LPR cuts ahead, weakened loan demand, and concessionary rates charged to MSEs, while RRR cuts and potential deposit benchmark rate cuts may provide some relief. We forecast NIM to contract 6bp/ 5bp for big 4 banks and JSBs, respectively, and see higher upside risk to that of JSB with market rates trending down rapidly. Relative to global peers, China banks are operating in a much better rate environment due to more restrained monetary policy easing by PBOC.

We see higher safety margins on earnings and dividends for large banks

We expect the large banks to fare better on upcoming asset quality deterioration due to risk buffers, cleaner loan book, and lower share of loan book exposure to private sector, which will likely be hit harder by COVID-19. Despite market concern over dividend sustainability, we expect the big 4 banks to maintain dividend payout ratio, given stronger CET-1 ratio and pressure to maintain contribution to fiscal revenue.

Retail banking: near-term challenging; medium-term outlook intact

We expect pressure on consumer loans in the near-term on both loan growth and asset quality, given rising unemployment pressure, weakened income growth outlook, and significant disruption to normal consumption activities. That said, we remain constructive on the medium-term outlook of retail banking, given China's path towards a consumption-led economy and the trend of consumption upgrade should continue.

Equities

China

Banks, Ex-S&L

May Yan

Analyst may.yan@ubs.com +852-2971 7157

Alex Ye

Analyst alex.ye@ubs.com +852-3712 3594

Edward Du

Associate edward.du@ubssecurities.com +86-21-3866 8780

Julie Hou

Analyst \$1460518080002 julie.hou@ubssecurities.com +86-213-866 8871

Alex Zhou

Analyst alex-huanan.zhou@ubs.com +852-3712 4218

www.ubs.com/investmentresearch

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May Yan Analyst may.yan@ubs.com +852-2971 7157

Alex Ye

Analyst alex.ye@ubs.com +852-3712 3594

Edward Du

Associate edward.du@ubssecurities.com +86-21-3866 8780

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Analyst S1460518080002 julie.hou@ubssecurities.com +86-213-866 8871

Alex Zhou

Analyst alex-huanan.zhou@ubs.com +852-3712 4218

Figure 1: Summary of PT and rating revisions – H & A shares

	Ticker	Ra	ting	Price t	arget	Price	Implied	Dividend	EPS gr	owth	P/BV	ratio	P/E r	atio	RO	AE
		(New)	(Old)	(New)	(Old)	(LC)	upside	yield	2020E	2021E	2020E	2021E	2020E	2021E	2020E	2021E
UBS H-sha	re coverage															
PSBC	1658.HK	Buy	Buy	5.80	6.50	4.71	23%	5.0%	-1.6%	15.5%	0.68x	0.62x	6.0x	5.2x	11.9%	12.6%
ССВ	0939.HK	Buy	Buy	7.60	8.30	6.30	21%	5.6%	0.8%	4.2%	0.62x	0.57x	5.3x	5.1x	12.1%	11.6%
ICBC	1398.HK	Buy	Buy	6.30	6.80	5.27	20%	5.5%	0.2%	6.4%	0.63x	0.58x	5.5x	5.1x	12.0%	11.7%
ABC	1288.HK	Neutral	Neutral	3.30	3.20	3.12	6%	6.5%	0.6%	5.5%	0.52x	0.48x	4.7x	4.5x	11.5%	11.2%
CQRCB	3618.HK	Neutral	Neutral	3.20	4.20	3.14	2%	8.1%	-12.8%	9.6%	0.34x	0.31x	3.5x	3.2x	10.0%	10.1%
вос	3988.HK	Neutral 🚚	Buy	3.10	4.60	3.01	3%	7.1%	0.6%	5.3%	0.45x	0.42x	4.4x	4.2x	10.6%	10.4%
СМВ	3968.HK	Neutral	Neutral	35.10	42.60	35.00	0%	3.8%	5.9%	14.0%	1.23x	1.09x	8.2x	7.2x	15.8%	16.0%
мѕв	1988.HK	Neutral	Sell	5.60	n.a.	5.70	-2%	7.2%	-5.2%	6.3%	0.41x	0.38x	4.4x	4.1x	10.2%	9.5%
Huishang	3698.HK	Sell	Sell	2.70	2.90	2.90	-7%	6.0%	-10.1%	8.7%	0.41x	0.37x	3.7x	3.4x	11.4%	11.2%
восом	3328.HK	Sell	Neutral	4.20	5.80	4.85	-13%	7.2%	-5.5%	5.4%	0.44x	0.41x	4.6x	4.4x	9.8%	9.7%
CITIC	0998.HK	Sell -	Neutral	3.30	4.70	3.82	-14%	7.0%	-9.1%	8.8%	0.36x	0.33x	4.0x	3.6x	9.3%	9.5%
Average								6.3%	-3.3%	8.2%	0.55x	0.51x	4.9x	4.6x	11.3%	11.2%
UBS A-sha	re coverage															
CCB-A	601939.SH	Buy	Buy	8.22	8.80	6.42	28%	5.0%	0.8%	4.2%	0.70x	0.65x	6.1x	5.8x	12.1%	11.6%
ICBC-A	601398.SH	Buy	Buy	6.52	6.80	5.16	26%	5.1%	0.2%	6.4%	0.68x	0.63x	6.0x	5.6x	12.0%	11.7%
СМВ-А	600036.SH	Buy	Buy	37.00	45.70	32.52	14%	3.7%	5.9%	14.0%	1.27x	1.13x	8.5x	7.4x	15.8%	16.0%
MSB	600016.SH	Neutral	Neutral	6.11	n.a.	5.78	6%	6.4%	-5.2%	6.3%	0.46x	0.43x	5.0x	4.7x	10.2%	9.5%
PAB	000001.SZ	Neutral 🤚	Buy	13.24	18.62	12.88	3%	1.9%	-0.8%	11.6%	0.84x	0.77x	8.4x	7.5x	10.4%	10.6%
ABC-A	601288.SH	Neutral	Neutral	3.60	3.90	3.42	5%	5.3%	0.6%	5.5%	0.63x	0.58x	5.7x	5.4x	11.5%	11.2%
BOC-A	601988.SH	Neutral 🖣	Buy	3.47	4.70	3.51	-1%	5.4%	0.6%	5.3%	0.58x	0.54x	5.7x	5.4x	10.6%	10.4%
CITIC-A	601998.SH	Sell	Neutral	4.57	6.00	5.18	-12%	4.6%	-9.1%	8.8%	0.54x	0.50x	6.0x	5.5x	9.3%	9.5%
Average								4.6%	-0.4%	7.2%	0.71x	0.64x	6.3x	5.9x	11.5%	11.3%

Note: Above data as of 7 April 2020. Source: Thomson Reuters, UBS-S estimates, UBS estimates

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UBS Research THESIS MAP a guide to our thinking and what's where in this report

MOST FAVOURED

LEAST FAVOURED

CCB, ICBC, PSBC

Huishang

PIVOTAL OUESTIONS

Q: Are China banks' earnings and dividends at risk amid COVID-19 impacts?

Yes, but less so for the large banks. We expect sector earnings growth to decline 5% in 2020 given rising pressure on NIM and asset quality. That said, we see large banks and CMB as better positioned to maintain flat/ positive earnings growth and constant dividends payout, given their higher risk buffers, cleaner loan book, stronger capital position, and lower share of loan book exposure to the private sector, which is likely to be hit harder by economic shocks. more-

Q: What's the NIM outlook for China banks?

We expect an average NIM decline of 5bp in 2020 among China banks under our coverage (big 4 average -6bp; JSB average -5bp), driven by ongoing LPR adoption on existing loans, likely more LPR cuts ahead, and regulatory directive for lower financing costs to MSEs. Potential deposit benchmark rate cut ahead after CPI falls notably could provide some relief to the NIM pressure. Relative to large banks, we see more upside risk to NIM fduduor JSBs given current downward pressure on market trends will likely benefit the funding costs of net interbank borrowers. more →

Q: Is the outlook for retail banking more negative than corporate banking?

Yes, but only in the near term. We expect consumer loans growth to slow to 7% YoY in 2020 from 16% in 2019, given rising unemployment pressure, weakened income growth outlook, and disruption to consumption activities. Asset quality of JSBs with higher exposure to non-mortgage consumer credit may be under greater pressure, in our view. We downgrade PAB to Neutral from Buy on a more challenging outlook in the near term.

UBS VIEW

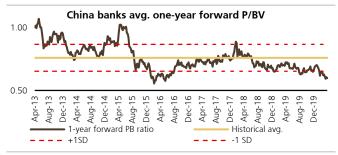
We expect the banking sector to go through a tougher NPL cycle in the coming years due to the unprecedented challenges caused by the COVID-19 outbreak. Earnings impact to banks will likely be milder with policy support for MSEs' liquidity needs, and potential NPL forbearance by regulators. We prefer large banks over JSBs on stronger balance sheets to avoid negative earnings growth and maintain stable dividend pay-outs.

EVIDENCE

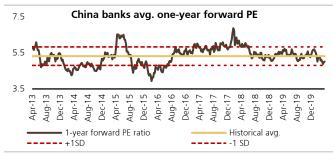
Large banks outperform most JSBs on multiple asset quality indicators and have adopted stricter NPL classification, which we think could help them avoid an earnings decline. Our stress test shows large banks will be able to maintain a decent safety margin above regulatory requirements on CET-1 ratio without any dividend cuts.

WHAT'S PRICED IN?

H-share banks are trading at 0.60x 1-year forward P/B, more than 1x SD below historical mean. Major Chinese banks' share price have corrected by c.11-23% since the COVID-19 outbreak in China. We believe banks' current valuations have largely factored in the current market view of slower China GDP growth at 2-4% in 2020 and the resulted bank asset quality deterioration. However, given the widespread of COVID-19 worldwide, there could be more downside risk for bank stocks from traderelated and global supply chain disruptions as a result of a potential global recession.



Source: Datastream, UBS



Source: Datastream, UBS

Summary of rating & PT changes

- With global spread of COVID-19 still evolving and UBS-e China 2020 GDP growth further cut to 1.5%, we are raising our previous forecast for shock-driven NPLs from Rmb2.0trn to Rmb5.8trn, to be gradually recognised over the next couple of years in our view. While we estimate sector NPL ratio and SML ratio to pick up materially to 3.0%/ 5.6% by end-2020 from 1.9%/ 2.9% in end-2019, we expect sector earnings impact to be milder (-5% for 2020E) with supportive policies, more market liquidities, and NPL forbearances by regulator.
- In light of the upcoming asset quality deterioration, we lower our estimates on 2019-20E NPAT by single digit for large SOE banks and CMB, while other peg joint-stock banks (JSBs) and city/ rural commercial banks' earnings at high-single to low-teens YoY decline considering their weaker risk control capability. We now forecast 2020 NPAT growth of 0.2%/ -1.7% for big 4 banks/ JSBs, and lower price targets for China bank stocks across the board on weaker earnings outlook and higher COE assumption. CCB, ICBC and PSBC are our only Buys among the H-share universe (Figure 1).
- We downgrade Ping An Bank from Buy to Neutral given potentially weak retail loan demand and asset quality deterioration due to COVID-19 outbreak. We expect COVID-19 to have significant negative impact on 2020E earnings growth which will lower PAB's earnings growth to +5% only (+14% in 2019) due to lower NIM (2.56% vs 2.62% in 2019) on loan mix shift to corporate loans and elevated credit cost (2.5%, same as 2019). However, we remain positive on retail banking in the medium term after the COVID-19 impacts are gradually resolved, and forecast the bank's profit growth to rebound to 12% in 2021, assuming retail loan growth back to normal.
- We downgrade BOC (both A&H) from Buy to Neutral on further NIM pressure and operational headwind in overseas market. Among Chinese banks, BOC has the highest overseas exposure, with offshore asset accounting for c.30% of total asset by end-2019. Given the US Fed Fund rate has been cut by 100bp to 0-25bp in mid-March 2020 and the unfavourable economic growth outlook in Hong Kong, we believe BOC will suffer more NIM pressure with stagnant growth, mainly dragged by the slowing operation in BOC HK.
- We downgrade CITIC Bank (both A&H) from Neutral to Sell, as we believe the bank has inadequate capital which will constrain its loan/ asset growth. As of end-2019, the banks' CET1 ratio came at only 8.69%, only 119bp higher than current regulatory min requirement. Considering the potentially higher capital requirement over DSIFs, CITIC Bank would face mounting pressure on the trade-off between growth versus meeting regulatory requirement. In addition, the bank has relied on growing high-yielding non-mortgage consumer loans to support its NIM, which is difficult now given the weak demand for consumer finance.
- We downgrade BOCOM-H from Neutral to Sell, given BOCOM has continued to underperform among SOE banks. Although lower market rate would somewhat help ease BOCOM's funding pressure, we see continual overhang over its business expansion given the company's stagnant deposit growth (+4.8% versus big 4's avg 7% in FY19). Among large banks, BOCOM has the highest exposure to manufacturing and wholesale & retail sectors, which will likely put the banks' asset quality under greater pressure.

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- We resume coverage of Minsheng Banking (both A&H) with Neutral rating. In 2020, MSB will start the 8th change of session of board, and there is little visibility on the bank's new strategy. We expect its 2020 earnings growth to decline by 5%, weaker than peers, due to NIM contraction and elevated credit cost given its higher exposure to MSEs and private sector. MSB-H is trading at 0.4x one-year forward P/BV, at historical low and large discount to peers. While valuation is undemanding, we suggest investors to wait until uncertainty on new shareholder and management is removed.
- **Downside case:** Key downside risks lie in further weakening of China's growth due to prolonged restriction of activities and a worse-than-expected global recession. In such downside case, we assume +20bp higher credit cost than in our based case for large SOE banks and CMB, and +30bp credit cost for other JSBs and smaller banks. These levels of credit costs imply 2.5-3.0% gross NPL formation for large banks and 3-3.5% for smaller banks, which have already surpassed the peak level of banks' NPL formation during 2015-16, and we believe this assumption is justified given the more severe COVID-19 impact on banks' asset quality. For NIM, we assume 15-20bp lower NIM versus base case for large SOE/CMB, but 25-30bp lower for other banks. We believe the worsening economic condition might urge PBOC to further lower MLF and hence the LPR. Amid the severe LPR downward trend, smaller banks will face further NIM pressure given their weaker pricing power with corporate clients.

Figure 2: Forecast revision in 2020-21E over our covered banks

	Banking sector: 2020E forecast revision NPAT NII Fee PPOP Impairment charges														
		NPAT			NII			<u>Fee</u>			PPoP		lmpa	irment charge:	<u>s</u>
Rmb mn	Old	New	Chg	Old	New	Chg	Old	New	Chg	Old	New	Chg	Old	New	Chg
CCB	274,841	264,927	-3.6%	539,507	544,835	1.0%	142,846	148,874	4%	514,257	523,618	1.8%	(175,091)	(194,647)	11.2%
ICBC	319,321	308,456	-3.4%	666,091	642,433	-3.6%	163,798	167,123	2%	617,422	605,234	-2.0%	(214,473)	(215,111)	0.3%
BOC	190,130	181,672	-4.4%	415,448	394,364	-5.1%	98,270	94,837	-3%	380,976	372,732	-2.2%	(133,029)	(121,153)	-8.9%
ABC	218,333	208,679	-4.4%	538,097	519,120	-3.5%	92,515	92,033	-1%	444,208	431,913	-2.8%	(167,481)	(165,892)	-0.9%
BOCOM	80,445	70,574	-12.3%	171,981	150,201	-12.7%	46,540	45,842	-2%	164,896	146,890	-10.9%	(67,979)	(63,636)	-6.4%
PSBC	65,975	61,473	-6.8%	247,692	251,330	1.5%	21,339	21,072	-1%	127,283	127,940	0.5%	(55,103)	(60,486)	9.8%
CMB	101,848	96,581	-5.2%	188,553	188,420	-0.1%	72,005	75,383	5%	188,512	192,628	2.2%	(55,119)	(66,035)	19.8%
CITIC	47,734	42,419	-11.1%	123,023	137,742	12.0%	55,963	51,219	-8%	135,002	143,590	6.4%	(75,383)	(91,023)	20.7%
CQRCB	10,204	9,129	-10.5%	24,295	24,261	-0.1%	2,256	2,508	11%	21,404	19,787	-7.6%	(8,186)	(8,234)	0.6%
Huishang	10,267	8,487	-17.3%	22,029	26,124	18.6%	3,670	4,580	25%	24,462	25,855	5.7%	(11,343)	(14,746)	30.0%
PAB	33,570	29,691	-11.6%	98,886	97,787	-1.1%	35,287	38,528	9%	99,208	103,757	4.6%	(55,613)	(65,594)	17.9%
Average	71,047	65,879	-7.3%	176,820	174,373	-1.4%	41,197	41,396	0.5%	150,622	149,045	-1.0%	(62,026)	(66,956)	7.9%
		NIM (%)		Cost to	income ratio (%)		ROE (%)		<u>N</u>	IPL ratio (%)		Cove	erage ratio (%)	
	Old	New	Chg	Old	New	Chg	Old	New	Chg	Old	New	Chg	Old	New	Chg
CCB	2.17	2.19	0.02	27.50	27.75	0.25	12.57	12.08	(0.49)	1.41	2.00	0.60	256	168	(87)
ICBC	2.23	2.18	(0.05)	26.30	26.50	0.20	12.37	11.96	(0.42)	1.47	1.94	0.47	205	159	(46)
BOC	1.86	1.77	(0.09)	32.00	32.70	0.70	11.13	10.61	(0.52)	1.38	1.92	0.54	194	138	(56)
ABC	2.21	2.11	(0.10)	35.00	35.50	0.50	12.03	11.46	(0.57)	1.56	2.40	0.84	275	174	(101)
BOCOM	1.63	1.55	(0.09)	34.80	32.70	(2.10)	11.11	9.83	(1.28)	1.46	1.92	0.46	216	121	(95)
PSBC	2.40	2.46	0.06	56.50	56.50	-	12.56	11.88	(0.69)	1.10	1.32	0.22	332	255	(77)
CMB	2.57	2.55	(0.02)	33.00	33.00	-	16.57	15.81	(0.76)	1.23	1.92	0.69	402	265	(137)
CITIC	1.91	2.06	0.15	31.00	29.50	(1.50)	10.52	9.33	(1.19)	1.75	2.94	1.19	168	125	(43)
CQRCB	2.42	2.29	(0.14)	30.74	28.80	(1.93)	12.40	9.98	(2.42)	1.44	2.80	1.36	384	182	(201)
Huishang	1.86	2.44	0.57	22.30	22.30	-	13.48	11.36	(2.12)	1.08	2.71	1.63	338	140	(198)
PAB	2.68	2.56	(0.12)	32.18	30.74	(1.43)	11.70	10.42	(1.28)	1.60	2.00	0.40	229	154	(75)
Average	2.10	2.06	(0.04)	34.3	34.1	(0.15)	12.37	11.74	(0.63)	1.46	2.10	0.64	254	172	(81)

	Banking sector: 2021E forecast revision NPAT NII Fee PPoP Impairment charges														
		NPAT			NII			<u>Fee</u>			PPoP		Impa	irment charges	<u> </u>
	Old	New	Chg	Old	New	Chg	Old	New	Chg	Old	New	Chg	Old	New	Chg
CCB	293,721	275,941	-6.1%	578,200	580,639	0.4%	153,934	160,959	5%	551,683	561,634	1.8%	(189,507)	(219,008)	15.6%
ICBC	339,556	328,340	-3.3%	712,046	674,458	-5.3%	174,313	176,497	1%	661,919	636,777	-3.8%	(233,702)	(221,802)	-5.1%
BOC	203,228	191,268	-5.9%	444,165	406,214	-8.5%	105,887	102,078	-4%	411,159	388,738	-5.5%	(143,383)	(130,916)	-8.7%
ABC	234,074	220,202	-5.9%	572,991	549,591	-4.1%	99,369	98,937	0%	475,473	460,173	-3.2%	(179,202)	(179,784)	0.3%
BOCOM	86,496	74,384	-14.0%	184,589	157,071	-14.9%	49,329	49,454	0%	174,588	154,907	-11.3%	(70,573)	(67,251)	-4.7%
PSBC	74,046	70,992	-4.1%	265,965	269,490	1.3%	26,230	25,847	-1%	141,792	142,478	0.5%	(61,104)	(64,985)	6.4%
CMB	114,631	110,118	-3.9%	206,218	202,216	-1.9%	74,269	80,700	9%	205,181	208,848	1.8%	(55,166)	(64,637)	17.2%
CITIC	50,530	46,155	-8.7%	132,750	148,736	12.0%	60,498	55,433	-8%	146,293	154,666	5.7%	(83,252)	(97,655)	17.3%
CQRCB	11,095	10,005	-9.8%	26,397	26,050	-1.3%	2,398	2,666	11%	23,162	21,397	-7.6%	(8,802)	(8,764)	-0.4%
Huishang	11,343	9,222	-18.7%	24,354	27,950	14.8%	3,964	4,947	25%	27,200	27,947	2.7%	(12,769)	(15,941)	24.8%
PAB	39,022	33,125	-15.1%	106,341	104,148	-2.1%	38,518	42,081	9%	103,794	110,080	6.1%	(53,119)	(67,504)	27.1%
Average	77,655	71,775	-7.6%	189,951	185,657	-2.3%	44,322	45,008	1.5%	162,185	160,062	-1.3%	(65,498)	(70,815)	8.1%
		NIM (%)		Cost t	o income ratio (%)		ROE (%)		<u>N</u>	IPL ratio (%)		Cove	erage ratio (%)	
	Old	New	Chg	Old	New	Chg	Old	New	Chg	Old	New	Chg	Old	New	Chg
CCB	2.15	2.15	(0.00)	27.40	27.75	0.35	12.27	11.55	(0.72)	1.45	1.83	0.39	273	174	(99)
ICBC	2.22	2.14	(80.0)	26.00	26.50	0.50	12.04	11.69	(0.35)	1.45	1.79	0.34	221	169	(52)
BOC	1.86	1.69	(0.16)	31.50	32.70	1.20	10.99	10.41	(0.58)	1.37	1.78	0.41	202	136	(65)
ABC	2.18	2.08	(0.11)	34.70	35.50	0.80	11.85	11.17	(0.68)	1.56	2.16	0.60	288	183	(105)
BOCOM	1.63	1.52	(0.11)	35.00	32.70	(2.30)	11.00	9.65	(1.35)	1.45	1.78	0.33	239	124	(115)
PSBC	2.39	2.44	0.04	55.30	56.50	1.20	12.84	12.55	(0.29)	1.09	1.06	(0.03)	334	287	(47)
CMB	2.58	2.52	(0.06)	32.00	33.00	1.00	16.42	16.05	(0.38)	1.23	1.79	0.56	399	266	(132)
		2.03	0.15	30.50	29.50	(1.00)	10.30	9.46	(0.83)	1.75	2.88	1.13	174	128	(46)
CITIC	1.88	2.00									0.00				(000)
CITIC CQRCB	2.42	2.27	(0.16)	30.66	28.80	(1.86)	12.22	10.15	(2.07)	1.48	2.63	1.15	398	178	(220)
				30.66 21.60	28.80 22.30	(1.86) 0.70	12.22 13.11	10.15 11.20	(2.07) (1.90)	1.11	2.63	1.15	398 360	178 147	(220)
CQRCB	2.42	2.27	(0.16)												

Source: Company data, UBS estimates

Figure 3: Earnings forecast and key drivers for covered Chinese banks in 2018-2021E

		NPAT gro	owth			NIM				ROE		
	FY18	FY19	FY20E	FY21E	FY18	FY19	FY20E	FY21E	FY18	FY19	FY20E	FY21E
CCB	5.1%	4.7%	0.8%	4.1%	2.29%	2.24%	2.19%	2.15%	13.9%	13.2%	12.1%	11.6%
ICBC	4.1%	4.9%	0.2%	6.4%	2.30%	2.24%	2.18%	2.14%	13.7%	13.1%	12.0%	11.7%
BOC	4.5%	4.1%	0.6%	5.1%	1.90%	1.84%	1.77%	1.69%	11.9%	11.4%	10.6%	10.4%
ABC	5.1%	4.6%	0.6%	5.4%	2.33%	2.17%	2.11%	2.08%	13.5%	12.4%	11.5%	11.2%
восом	4.9%	5.0%	-5.3%	5.2%	1.51%	1.58%	1.55%	1.52%	11.4%	11.2%	9.8%	9.7%
PSBC	9.7%	16.5%	5.0%	14.9%	2.67%	2.50%	2.46%	2.44%	12.3%	12.7%	11.9%	12.6%
CMB	14.8%	15.3%	5.8%	13.8%	2.57%	2.59%	2.55%	2.52%	16.6%	16.8%	15.8%	16.0%
CITIC	4.6%	7.9%	-8.9%	8.5%	2.09%	2.12%	2.06%	2.03%	11.3%	11.1%	9.3%	9.5%
MSB	1.0%	7.0%	-5.2%	6.3%	1.73%	1.94%	1.88%	1.88%	12.8%	12.4%	10.8%	10.7%
CQRCB	1.4%	7.8%	-6.5%	9.6%	2.45%	2.33%	2.29%	2.27%	13.6%	12.3%	10.0%	10.1%
Huishang	14.9%	12.3%	-9.7%	8.3%	2.36%	2.51%	2.44%	2.38%	14.7%	14.1%	11.4%	11.2%
PAB	7.0%	13.6%	5.3%	11.6%	2.35%	2.62%	2.56%	2.50%	11.8%	11.4%	10.4%	10.6%
Average	6.4%	8.6%	-1.4%	8.3%	2.21%	2.22%	2.17%	2.13%	13.1%	12.7%	11.3%	11.3%

	C	ost-to-incor	ne ratio			NPL ra	tio			NPL cove	rage	
	FY18	FY19	FY20E	FY21E	FY18	FY19	FY20E	FY21E	FY18	FY19	FY20E	FY21E
CCB	27.6%	27.7%	27.7%	27.4%	1.46%	1.41%	2.00%	1.83%	208%	227%	168%	174%
ICBC	26.8%	26.8%	26.5%	26.4%	1.52%	1.43%	1.94%	1.79%	176%	199%	159%	169%
BOC	32.9%	32.9%	32.7%	32.7%	1.41%	1.36%	1.92%	1.78%	182%	183%	138%	136%
ABC	35.5%	35.6%	35.5%	35.2%	1.59%	1.40%	2.40%	2.16%	252%	289%	174%	183%
восом	37.2%	36.7%	36.0%	35.5%	1.49%	1.47%	2.40%	2.31%	171%	170%	121%	124%
PSBC	58.3%	57.0%	56.5%	55.3%	0.86%	0.86%	1.32%	1.06%	345%	388%	255%	287%
CMB	32.8%	34.1%	33.0%	32.0%	1.36%	1.16%	1.92%	1.79%	341%	426%	265%	266%
CITIC	31.8%	28.9%	29.5%	29.5%	1.77%	1.65%	2.94%	2.88%	158%	175%	125%	128%
MSB	31.8%	28.1%	28.0%	29.0%	1.76%	1.56%	2.60%	2.50%	132%	156%	122%	127%
CQRCB	31.2%	29.4%	28.8%	28.2%	1.29%	1.25%	2.80%	2.63%	347%	380%	182%	178%
Huishang	23.0%	22.8%	22.3%	21.6%	1.04%	1.04%	2.71%	2.69%	299%	302%	140%	147%
PAB	31.4%	30.6%	30.7%	30.9%	1.75%	1.65%	2.00%	1.90%	155%	183%	154%	170%
Average	33.4%	32.5%	32.3%	32.0%	1.44%	1.35%	2.25%	2.11%	231%	256%	167%	174%

Source: Company data, UBS estimates

China Banks UBS Research

PIVOTAL OUESTIONS



Q: Are China banks' earnings and dividends at risk amid COVID-19 impacts?

UBS VIFW

Yes, but less so for the large banks. We expect sector earnings growth to decline 5% in 2020 given mounting pressure on NIM and asset quality. That said, we see large banks and CMB as better positioned to maintain flat/positive earnings growth and constant dividends payout, given their higher risk buffers, cleaner loan book, stronger capital position, and lower share of loan book exposure to the private sector, which is likely to be hit harder by economic shocks.

EVIDENCE

Large banks outperform most JSBs on multiple asset quality indicators and have adopted stricter NPL classification, which could help them avoid an earnings decline. We estimate large banks' exposure to the private sector averages at 16% of loan book as of Dec-18, which is substantially lower than the average of 33% among JSBs.

WHAT'S PRICED IN?

Share prices of the big 4 banks have been more resilient, outperforming shares of JSBs we cover by 6% since the COVID-19 outbreak. We think share prices of JSBs will remain under pressure as impacts of deteriorated asset quality gradually materialise over the coming quarters.

Moving towards our previous downside scenario on NPL formation

Given China's economic activities were much worse-than-expected in Jan-Feb, and are not fully back to normal in March, UBS China economists now expect China's GDP to fall by 5% YoY in Q120 (-31% QoQ SAAR) (link). With the further spread of coronavirus and a fast deteriorating global economy outlook after more countries have imposed lockdowns and mobility restrictions, China's recovery could be severely delayed. As such, UBS China economists have further revised down GDP growth forecasts to 1.5% in 2020, followed by a rebound to 7.5%. This implies a two-year CAGR of 4.5%, which is already worse than the forecast in the previous worst-case scenario of 4.8%.

As worsened macro outlook would inevitably bring with more pressure on business operations and NPLs as a result, we are raising our base-case estimate of additional shock-driven NPL formation for the banking system from Rmb2.0trn to Rmb5.8trn, as we move from a base case assumption of 2020-21 GDP CAGR of 5.5% to 4.5%. (For our methodology of NPL forecast, please see our earlier note "The aftermath of the coronavirus: how bad could bank NPLs and corporate bond defaults be?" 11 March 2020).

Apart from a sharp rise in potential NPL formation, the ultimate impacts to banks' earnings and balance sheet would also depend on a couple of other moving parts upon which there is little visibility so far. These factors include how much of such potential NPL would be recognised in current year/ deferred to following years by roll-over, what level of reported NPL ratio would regulator tolerate, whether

current minimum requirements on NPL coverage and provision-to-loan ratios would be relaxed, and the need to maintain organic capital generation to back credit growth.

While we are raising our forecast for shock-driven NPLs as a result of more severe deceleration of GDP growth, we now see it increasingly likely for regulators to exercise greater NPL forbearance (i.e. deferring NPL recognition to a multi-year period through roll-overs), as regulators need to carefully balance above factors. As such, we are also expecting these potential shock-driven NPLs to be recognised over a multi-year period (of which 33%/24%/15% will be recognised in 2020-22 in our new base case), rather than over a two-year period (70%/30% during 2020-21) in our previous forecast. We think this should help to ease the pressure of banking system to dispose of and make provisions for a sudden and sharp rise in NPLs.

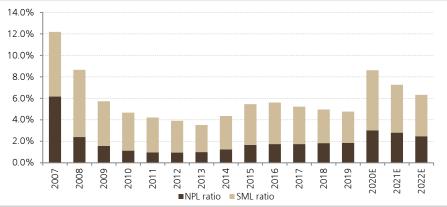
In our current base case forecast, we expect an earnings decline of 5% for the banking sector in 2020, followed by a moderate recover to 2% in 2021. We estimate credit cost to edge up 1.4-1.5% in 2020-21, higher than 1.3% in 2019. However, the smoothed earnings impacts would come at the cost of higher reported NPL ratio and SML ratio, and reserve buffer built up in prior years could be consumed rapidly as banks accelerate NPL disposal (Figure 4).

Figure 4: Summary of our new forecasts for banking sector

	2019	2020E	2021E
Key assumptions			
Real GDP growth	6.1%	1.5%	7.5%
% of shock-driven NPLs recognised		33%	24%
Key ratios			
Gross NPL formation (Rmb trn)	2.4	3.9	3.6
Gross NPL formation ratio	2.1%	3.0%	2.8%
NPL ratio	1.86%	3.03%	2.81%
SML ratio	2.91%	5.60%	4.46%
NPL coverage	186%	126%	122%
Provision-to-loan ratio	3.5%	3.8%	3.4%
Credit cost	1.33%	1.44%	1.43%
NPAT growth	6%	-5%	2%
ROAE	11.0%	9.4%	9.0%
CET-1 ratio	10.9%	10.8%	10.6%

Source: CBIRC, UBS estimates

Figure 5: We expect a large pick up in SML ratio due to NPL forbearance



Source: CBIRC, UBS estimates

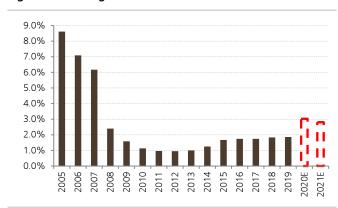
Figure 6: China banking sector P&L 2013-20E

Rmb bn	2013	2014	2015	2016	2017	2018	2019	2020E
P&L								
Net interest income	2,887	3,306	3,598	3,711	3,806	4,209	4,903	5,197
NIM	2.64%	2.68%	2.55%	2.27%	2.07%	2.13%	2.20%	2.12%
Non-interest income	851	974	1,154	1,251	1,233	1,282	1,527	1,589
Non-interest income yoy growth	28%	14%	18%	8%	-1%	4%	17%	4%
Operating expenses	(1,345)	(1,483)	(1,599)	(1,652)	(1,722)	(1,863)	(2, 195)	(2,339)
Cost-to-income ratio	36%	35%	34%	33%	34%	34%	34%	34%
PPOP	2,394	2,797	3,154	3,310	3,318	3,628	4,235	4,447
PPOP yoy growth	14%	17%	13%	5%	0%	9%	13%	5%
Provisions	(540)	(765)	(1,072)	(1,155)	(1,033)	(1,235)	(1,629)	(1,959)
Profit before tax	1,854	2,032	2,082	2,156	2,285	2,392	2,605	2,488
Tax & minority int.	(436)	(478)	(489)	(507)	(537)	(562)	(612)	(585)
Net profit	1,418	1,555	1,593	1,649	1,748	1,830	1,993	1,903
Net profit yoy growth	14%	10%	2%	4%	6%	5%	6%	-5%
Balance sheet								
Average interest-yielding assets	109,287	123,480	141,079	163,842	183,724	197,450	222,440	244,684
Average interest-yielding assets yoy growth	15%	13%	14%	16%	12%	7%	13%	10%
Total loan balance	59, 359	66,600	76,059	86,440	97,444	110,570	129,758	142,734
Loan growth	15%	12%	14%	14%	13%	13%	17%	10%

Source: CBIRC, UBS estimates

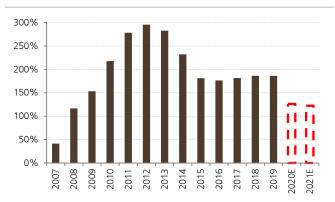
Our new base case forecasts

Figure 7: Banking sector NPL ratio



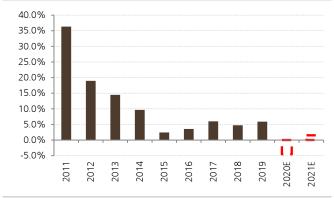
Source: CBIRC, UBS estimates

Figure 8: Banking sector NPL coverage



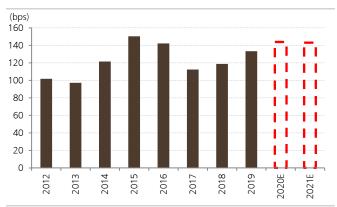
Source: CBIRC, UBS estimates

Figure 9: Banking sector earnings growth



Source: CBIRC, UBS estimates

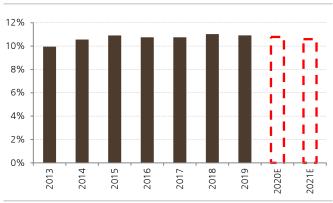
Figure 10: Banking sector credit cost



Source: CBIRC, UBS estimates

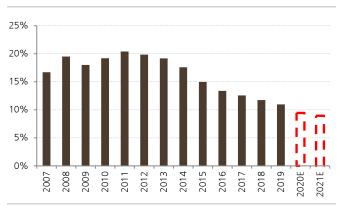
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Figure 11: Banking sector CET-1 ratio



Source: CBIRC, UBS estimates

Figure 12: Banking sector ROAE



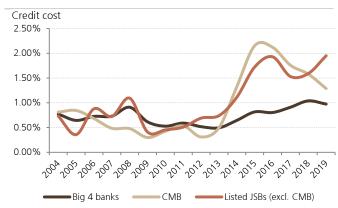
Source: CBIRC, UBS estimates

Risk buffers built up in the past three years could ease the pressure on credit cost

Despite mounting pressure on upcoming potential bad debt formation, we think the earnings impact to listed banks may not be as large. In fact, credit costs of both the big 4 banks and listed JSBs in 2019 are already at close to historical high over the past 15 years, which should act as the first line of defence before further erosion to earnings.

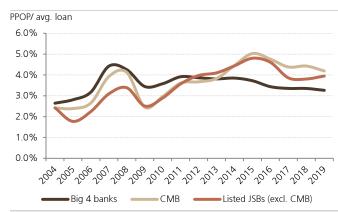
In addition, listed banks have strengthened their risk buffers noticeably over the past three years. Credit costs for the big 4 banks and listed JSBs stayed elevated since 2015 and averaged at around 1% and 2% respectively in 2019. This has helped to improve the NPL coverage of large banks visibly from the level in 2016. More importantly, due to tighter supervision by the regulator, China banks' NPL classification standards are now more stringent, evidenced by a substantial increase in NPL/ 90-day+ overdue ratio among both the big 4 banks and JSBs.

Figure 13: Credit costs of major listed banks were already at historical high...



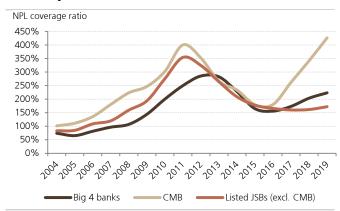
Note: 2019 data for JSBs does not include SPDB, IB and HXB, which have not released annual reports.
Source: Company data.

Figure 14: ...even though pre-provision profits has weakened on narrowed NIM



Note: 2019 data for JSBs does not include SPDB, IB and HXB, which have not released annual reports. Source: Company data.

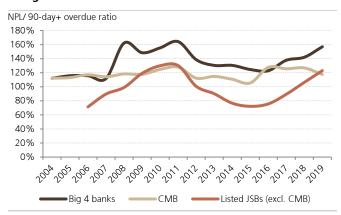
Figure 15: NPL coverage of large banks has recovered noticeably...



Note: 2019 data for JSBs does not include SPDB, IB and HXB, which have not released annual reports.

Source: Company data.

Figure 16: ...and most banks have strengthened NPL recognition standard



Note: 2019 data for JSBs does not include SPDB, IB and HXB, which have not released annual reports.

Source: Company data.

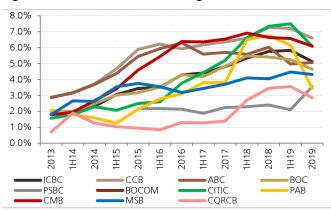
JSB could be impacted more on higher exposure to private sector

In the last credit cycle in 2013-19, we believe a majority of the NPLs recognised were from corporate loans to POEs, which generally have fewer financial resources and weather down cycles not as well as SOEs. This is evidenced by the elevated NPL ratios reported by listed banks on manufacturing sector and wholesale & retail sector, which generally consist of a much higher share of private-owned entities (POE) as well as small-/ medium-sized enterprises (SMEs) than other sectors.

For China banks under our coverage, NPL ratios of manufacturing sector, and wholesale & retail sector have been trending up over the past several years, and most have reached a peak-level of 7% and 10%, respectively (Figure 17 and Figure 18). Excluding these two sectors, NPL ratios of the remaining domestic corporate loan book have remained far lower at below 1.5% for most banks (Figure 19).

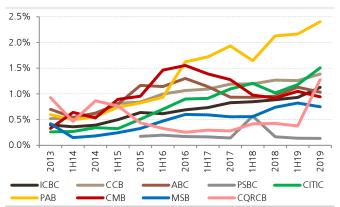
Given the higher risks for lending to the manufacturing and wholesale & retail sectors, most banks have been shrinking their exposure to these two sectors in the past (Figure 20). Excluding PSBC, MSB and CQRCB, other banks among our coverage in aggregate reported 12% decline in loan balance to manufacturing sector during 2014-19, and 33% decline for wholesale & retail sector.

Figure 17: NPL ratio: Manufacturing sector



Note: For big four banks, overseas corporate loan books are excluded. Source: Company data, UBS estimates

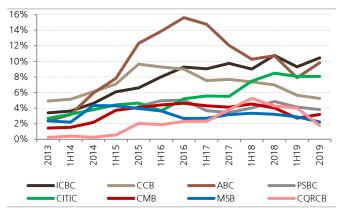
Figure 19: NPL ratio: Other sectors



Note: For big four banks, overseas corporate loan books are excluded. Other sectors refer to corporate loan book excluding manufacturing sector, and wholesale & retail sector (if disclosed).

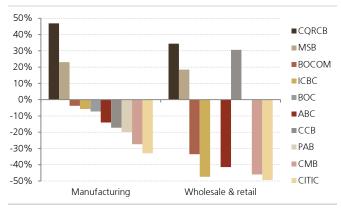
Source: Company data, UBS estimates

Figure 18: NPL ratio: Wholesale & retail sector



Note: For big four banks, overseas corporate loan books are excluded. Source: Company data, UBS estimates

Figure 20: Cumulative change in loan balance in 2014-19



Note: BOC and PAB do not disclose loans to wholesale & retail sector. Source: Company data

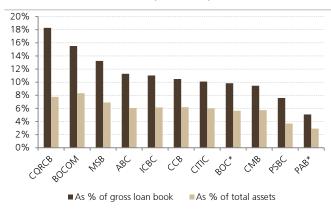
With manufacturing and wholesale & retail sectors likely hit harder by the COVID-19 outbreak and their higher inherent risks, we think banks with higher exposure to these sectors may be more at risk. Among the banks we cover, CQRCB, BOCOM and MSB have the highest combined exposure to these two sectors by the end of 2019, while PSBC and PAB were among the lowest.

Apart from industry breakdown, banks' exposure to the private sector could offer a different angle to gauge their potential bad debt pressure. With the POEs, in particular SMEs, generally more financially vulnerable to external shocks, we believe banks with higher exposure to the private sector could be under more NPL pressure, even though these new NPLs may only be recognised gradually due to regulators' NPL forbearance.

Contrary to market concerns of 'national service' by state-owned banks, we estimate that the state-owned banks had the lowest exposure to private sector as percentage of their total loan books, which stood at 12-16% by end-2018 (although by absolute number their loan balances to the private sector are higher than those of other banks). We believe this is due to a much stronger SOE customer base at the state-owned banks. Exposure to the private sector is generally higher at joint-stock banks (JSBs). Among banks we cover, MSB had the highest exposure at 46.5% at end-2018, followed by CQRCB (37.5%) and CITIC Bank (37.4%).

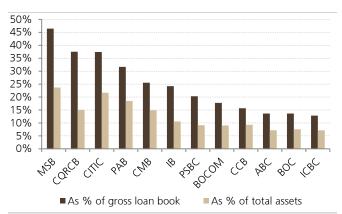
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Figure 21: Combined exposure to manufacturing and wholesale & retail sectors (Dec-2019)



Note: BOC and PAB do not disclose loans to wholesale & retail sector. Source: Company data, UBS estimates

Figure 22: Exposure to private enterprises (Dec-2018)



Note: Include loans to POE booked under both corporate loan book and retail loan book.

Source: Company data, UBS estimates

Banks with higher reserve buffer and capital ratios are better positioned

With the banking sector NPLs set to rise over the coming years and the private sector more vulnerable to short-term shocks, we believe banks with smaller exposure to the private sector would fare better than peers. In addition, we think banks with stricter NPL recognition standard prior to the coronavirus outbreak (i.e. higher NPL/ 90-day+ overdue ratio), higher risk reserves, higher ROE and higher capital ratios would be better positioned to weather the upcoming challenges. Among the banks we cover, CMB and PSBC stand out for having the best asset quality indicators, while CCB, BOC, ABC, and CQRCB appear to have implemented stricter NPL recognition standard given a high NPL/ 90-day+ overdue ratio.

In terms of capital strength, CCB and ICBC have the highest capital ratios by the end of December 2019. Banks with higher ROE are also preferred due to a stronger organic capital generation capabilities, which in turns imply abilities to maintain stable dividend pay-outs.

Figure 23: Summary of key ratios

	ICBC	CCB	BOC	ABC	BOCOM	PSBC	CMB	CITIC	PAB	MSB	CQRCB
Asset quality											
NPL ratio	1.43%	1.42%	1.36%	1.40%	1.47%	0.86%	1.16%	1.65%	1.65%	1.56%	1.25%
SML ratio	2.71%	2.93%	2.22%	2.24%	2.45%	0.66%	1.17%	2.22%	2.01%	2.96%	2.32%
NPL + SML ratio	4.14%	4.35%	3.58%	3.64%	3.92%	1.52%	2.34%	3.87%	3.65%	4.52%	3.57%
NPL/ 90-day+ overdue ratio	130%	171%	179%	167%	127%	148%	118%	132%	122%	114%	179%
NPL coverage	199%	228%	182%	289%	171%	389%	426%	175%	183%	156%	380%
Provision-to-loan ratio	2.9%	3.2%	2.6%	4.0%	2.5%	3.4%	5.0%	2.9%	3.0%	2.4%	4.8%
Capital strength											
ROAE	13.1%	13.4%	11.8%	12.7%	11.4%	11.5%	16.8%	11.1%	10.2%	12.4%	12.3%
Dividend payout ratio	30%	30%	30%	30%	30%	30%	32%	25%	15%	30%	27%
CET-1 ratio	13.2%	13.9%	11.3%	11.2%	11.2%	9.9%	11.9%	8.7%	9.1%	8.9%	12.4%

Source: Company data

Are Chinese banks' dividends at risk?

Following announcement of dividend cancellation by HSBC and a couple of European banks, a common question among investors is: are Chinese banks' dividends also at risk? This question could be further boiled down to two smaller

questions: 1) can China banks maintain current payout ratios? 2) will China banks report a decline in FY20 earnings?

In order to assess how sustainable banks' current dividend payout ratio are, we conduct a stress test on CET-1 ratio, assuming banks to maintain 10% asset growth, zero profit growth, and constant dividend payout throughout 2020-22. In different scenarios, we assume RWA density (RWA/ asset ratio) to: 1) stay constant to the level in Dec-19; 2) increase by 0.5ppt per year; 3) increase by 1ppt per year. The rationale for assuming higher RWA density is twofold: 1) the regulator is calling for greater credit support to the real economy, which would imply higher corporate loan growth; 2) consumer loans may slow down further in the near term given the COVID-19 impacts. Given banks will generally formulate capital planning for multiple years ahead, we take a three-year horizon and compare each bank's pro-forma CET-1 ratio by 2022 with regulatory requirement, and screen for banks that may need to reduce dividend payout so as to preserve capital.

While all banks under our coverage would still have a CET-1 ratio above current minimum regulatory requirements under all scenarios, certain banks including CITIC Bank, PAB and MSB, are clearly under greater stress to maintain compliant. Their CET-1 ratio would be even more stretched if additional capital buffer is implemented under the <u>domestic systematically important banks</u> (D-SIBs) <u>framework</u> that has yet to come. Overall, we see a higher risk to the dividend payout ratios at CITIC Bank and MSB.

Figure 24: Stress test on sustainability of banks' current dividend pay-outs

	ICBC	ССВ	ВОС	ABC	восом	PSBC	CMB	CITIC	PAB	MSB	CQRCB
CET-1 ratio (Dec-19)	13.2%	13.9%	11.3%	11.2%	11.2%	9.9%	11.9%	8.7%	9.1%	8.9%	12.4%
Dividend payout ratio (FY19)	30%	30%	30%	30%	30%	30%	32%	25%	15%	30%	27%
RWA/ asset ratio (Dec-19)	62%	59%	62%	62%	62%	49%	62%	76%	71%	77%	69%
Current minimum CET-1 ratio	9.0%	8.5%	9.0%	8.5%	7.5%	7.5%	7.5%	7.5%	7.5%	7.5%	7.5%
Assume 10% asset growth, zero p	rofit growtl	h, and con	stant divide	end payou	t ratio in 20	20-22					
Pro-forma CET-1 ratio by Dec-22											
1) RWA/ assets stay constant	12.5%	13.2%	10.5%	10.6%	10.3%	9.3%	12.0%	8.1%	8.7%	8.3%	11.6%
2) RWA/ assets +0.5ppt per year	12.2%	12.9%	10.3%	10.3%	10.1%	9.0%	11.7%	7.9%	8.5%	8.2%	11.3%
2) RWA/ assets +1ppt per year	11.9%	12.5%	10.0%	10.1%	9.9%	8.7%	11.4%	7.8%	8.4%	8.0%	11.1%

Source: Company data, UBS estimates

For the big 4 banks, their capital adequacy would still maintain a decent safety margin above regulatory requirements under our stress test, especially for ICBC and CCB which have the highest CET-1 ratio currently. Separately, with the government's fiscal revenue under pressure following large scale of fees and tax cuts over the past two years, we think dividend income from the big 4 banks would still remain an important part of the government's budget of fiscal revenue, albeit this contributed to a relatively small share of the overall fiscal revenue at 0.7%. In fact, in the 2019 Government Work Report, there was mentioning of target to increase fiscal revenue by raising profit distribution from certain state-owned financial institutions and central SOE. Therefore we believe this will also put some pressure on the big 4 banks to at least maintain their current payout ratio at 30%.

Figure 25: Dividends from big 4 banks contributed to 0.7% of government fiscal revenue

Rmb bn		Holdings (%)		2018 dividends	Share of MOF &		Fiscal rever	nues 2019	
RITIO DIT	MOF	Central Huijin	Total	(paid in 2019)	Central Huijin	General	Govt funds	State capital	Total
ICBC	34.6%	34.7%	69.3%	89	62				
CCB		57.1%	57.1%	77	44				
ABC		64.0%	64.0%	61	39				
BOC	39.2%	40.0%	79.2%	54	43				
Big 4				281	187	19,038	8,452	396	27,886
- as % of fiscal revenues						1.0%	2.2%	47.3%	0.7%

Source: Company data, UBS

In terms of earnings, as discussed above we expect the industry earnings growth to decline by 5% given both NIM pressure and higher credit costs. That said, we expect the big 4 banks would be able to avoid maintain flat earnings growth in 2020, given their higher buffer in risk reserves. On the other hand, we expect negative earnings growth for BOCOM and most JSBs except CMB and PAB. Specifically, we see the absolute amounts of dividends by CITIC and MSB of being more at risk for being double hit on both payout ratio and earnings.

We currently expect large banks to maintain payout ratio at 30% unchanged, and a flat earnings growth for 2020E, which would imply dividend yields of 5.4%-6.9% at current closing price. We think such levels of dividend yields are attractive in the current low-interest rate environment, especially given a relatively high level of certainty on dividend amounts. In a stressed scenario where we assume 2020 EPS decline by 20% but dividend payout ratios remain unchanged, dividend yields of large banks would fall to 4.4-5.5%, which are still quite attractive.

Figure 26: Dividend yields of large banks appears attractive even if earnings decline

				UBSe (FY	′20e)		If 2020	E NPAT	down 10%	If 2020	E NPAT	down 20%
		Price	NPAT	Payout	DPS	Dividend	DPS	Payout	Implied	DPS	Payout	Implied
	Stock code	(LC)	growth	ratio	(Rmb)	yield	(Rmb)	ratio	dividend yield	(Rmb)	ratio	dividend yield
CCB	0939.HK	6.13	0.8%	30%	0.32	5.7%	0.28	30%	5.1%	0.25	30%	4.5%
ICBC	1398.HK	5.15	0.2%	30%	0.26	5.5%	0.23	30%	4.9%	0.21	30%	4.4%
ABC	1288.HK	3.05	0.6%	30%	0.18	6.6%	0.16	30%	5.7%	0.14	30%	5.1%
BOC	3988.HK	2.93	0.6%	30%	0.19	6.9%	0.17	30%	6.2%	0.15	30%	5.5%
PSBC	1658.HK	4.61	5.0%	30%	0.21	5.0%	0.18	30%	4.3%	0.16	30%	3.8%
восом	3328.HK	4.64	-5.3%	30%	0.30	7.0%	0.27	30%	6.4%	0.24	30%	5.7%
CMB	3968.HK	33.95	5.8%	33%	1.25	4.0%	1.06	33%	3.4%	0.94	33%	3.0%
CITIC	0998.HK	3.70	-8.9%	25%	0.22	6.4%	0.21	25%	6.3%	0.19	25%	5.6%
PAB	000001.SZ	12.61	5.3%	10%	0.17	1.4%	0.15	10%	1.2%	0.13	10%	1.0%
MSB	1988.HK	5.60	-5.2%	30%	0.35	6.8%	0.33	30%	6.5%	0.30	30%	5.8%

Closing price as of Apr 3, 2020.

Source: Company data, Thomson Reuters, UBS estimates

Will large Chinese banks reduce dividends as European banks did?

In end-March, the bank regulator for the top 117 lenders in the EU asked firms to halt pay-outs until at least October 2020 to conserve capital resources to protect banks and their customers in the near term. Afterward, UK regulator also asked banks to withhold 2019 final dividend payment, halt buybacks and to not distribute equity dividend during 2020. On 1 April, HSBC and Standard Chartered announced they would cancel dividends and stock buybacks. We've seen rising concerns across the street that Chinese financial regulator will also follow the suit to regulate domestic banks to lower payout ratio or even withhold dividend payment.

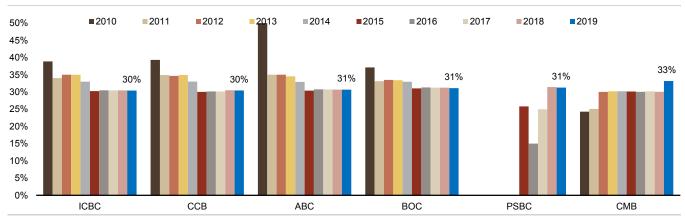
However, we believe most banks will maintain their announced dividend payout unchanged for, especially for those large SOE banks. As the MOF is the controlling shareholder of all large SOE banks, and the government may need these banks' dividend income to support fiscal policies, ie dividend income from big 4 plus BOCOM's 2018 earnings payout (paid in 2019) accounted for 1% of budget fiscal income or around 8% of fiscal deficit. All our covered banks have announced their 2019 dividend payout, which may still need the approval from annual general meeting. According to historical experience, the AGM would be hosted likely in late-May to June, and the ex-dividend date are likely ranged late-May to early July for H-share stocks, and A-share stocks may mostly ex-dividend in July.

Figure 27: Our covered banks' AGM/ex-div date in the past five years

	Ticker	Dividend		Annual (General meet	ing			Ex-div date					
		yie ld - 2019	2015	2016	2017	2018	2019	2015	2016	2017	2018	2019		
UBS H-share co	overage													
ссв	0939.HK	5.5%	15-Jun	17-Jun	15-Jun	29-Jun	21-Jun	23-Jun	22-Jun	22-Jun	9-Jul	2-Jul		
ICBC	1398.HK	5.7%	19-Jun	24-Jun	27-Jun	26-Jun	20-Jun	29-Jun	29-Jun	3-Jul	5-Jul	25-Jun		
PSBC	1658.HK	4.9%	na	na	8-Jun	28-Jun	30-May	na	na	13-Jun	3-Jul	4-Jun		
ABC	1288.HK	6.6%	29-Jun	27-Jun	28-Jun	11-May	30-May	2-Jul	29-Jun	5-Jul	17-May	11-Jun		
вос	3988.HK	7.2%	17-Jun	7-Jun	29-Jun	28-Jun	17-May	25-Jun	16-Jun	6-Jul	5-Jul	23-May		
восом	3328.HK	7.5%	29-Jun	27-Jun	22-Jun	21-Jun	21-Jun	20-May	29-Jun	26-Jun	4-Jul	25-Jun		
СМВ	3968.HK	3.9%	19-Jun	28-Jun	26-May	27-Jun	27-Jun	24-Jun	5-Jul	6-Jun	4-Jul	4-Jul		
СІТІС	0998.HK	7.2%	26-May	26-May	26-May	25-May	24-May	na	30-May	31-May	29-May	28-May		
мѕв	1988.HK	7.3%	18-Jun	7-Jun	16-Jun	21-Jun	21-Jun	23-Jun	10-Jun	20-Jun	25-Jun	25-Jun		
CQRCB	3618.HK	8.5%	19-Jun	17-Jun	5-May	27-Apr	26-Apr	23-Jun	22-Jun	9-May	2-May	30-Apr		
Huishang	3698.HK	5.9%	na	20-Jun	22-Jun	30-Jun	30-Jun	3-Jun	22-Jun	27-Jun	4-Jul	3-Jul		
Average		6.8%												
UBS A-share co														
CCB-A	601939.SH	4.8%	15-Jun	17-Jun	15-Jun	29-Jun	21-Jun	1-Jul	30-Jun	30-Jun	17-Jul	10-Jul		
ICBC-A	601398.SH	5.1%	19-Jun	24-Jun	27-Jun	26-Jun	20-Jun	7-Jul	8-Jul	11-Jul	13-Jul	3-Jul		
CMB-A	600036.SH	3.7%	19-Jun	28-Jun	26-May	27-Jun	27-Jun	3-Jul	13-Jul	14-Jun	12-Jul	12-Jul		
PAB	000001.SZ	2.0%	2-Apr	19-May	29-Jun	20-Jun	30-May	13-Apr	16-Jun	21-Jul	12-Jul	26-Jun		
MSB	600016.SH	6.5%	18-Jun	7-Jun	16-Jun	21-Jun	21-Jun	7-Jul	24-Jun	6-Jul	5-Jul	5-Jul		
BOC-A	601988.SH	5.5%	17-Jun	7-Jun	29-Jun	28-Jun	17-May	3-Jul	24-Jun	14-Jul	13-Jul	3-Jun		
ABC-A	601288.SH	5.4%	29-Jun	27-Jun	28-Jun	11-May	30-May	10-Jul	7-Jul	13-Jul	25-May	19-Jun		
CITIC-A	601998.SH	4.7%	26-May	26-May	26-May	25-May	24-May	na	25-Jul	24-Jul	3-Jul	22-Jul		
Average		4.6%												

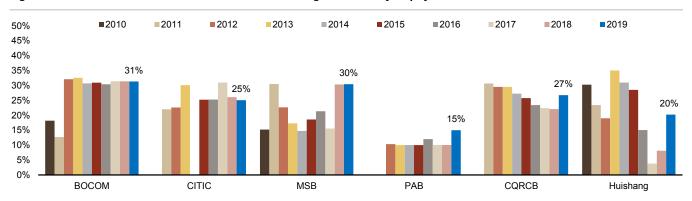
Dividend yield as of April 3, 2020. Source: Company data, WIND

Figure 28: Large banks' dividend payout ratios were relatively stable in the past five years



Source: Company data

Figure 29: ...while JSB and other smaller banks saw higher volatility in payout



Source: Company data

China Banks UBS Research

PIVOTAL QUESTIONS

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Q: What's the NIM outlook for China banks?

UBS VIEW

Relative to global peers, China banks are operating in a much better rate environment due to more restrained monetary policy easing. That said, we expect an average NIM decline of 5bp in 2020 among China banks under our coverage (big 4 average -6bp; JSB average -5bp), driven by ongoing LPR adoption on existing loans, likely more LPR cuts ahead, and regulatory directive for lower financing costs to MSEs. Potential deposit benchmark rate cut ahead after CPI falls notably could provide some relief to the NIM pressure. Relative to large banks, we see more upside risk to NIM for JSBs given current downward pressure on market trends will likely benefit the funding costs of net interbank borrowers.

EVIDENCE

We summarise the various factors that we think could affect NIM and impact individual banks in Figure 36 and Figure 37. Among these factors, LPR adoption on existing loans and more LPR cuts ahead will likely remain the dominant drivers for NIM downtrend. With the central bank ensuring ample liquidity to the market, market rates have trended down significantly at a much larger magnitude than that seen last year.

WHAT'S PRICED IN?

Since the COVID-19 outbreak, China bank stocks have been more resilient with MSCI China Banks Index outperforming developed market banking indices by 24-34%, which we believe reflects better NIM and earnings than global peers.

China has been more restrained amid this round of global rate cuts...

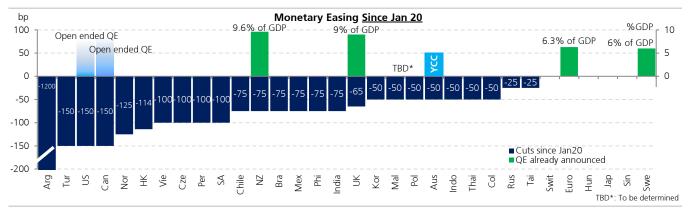
Since the COVID-19 outbreak turned into global pandemic and mobility restrictions are imposed on countries, global policymakers have announced <u>2.9% of global GDP in fiscal stimulus</u> to counteract the downturns. In terms of monetary policy, most of the DM central banks have already cut rates since Jan 20. Following US Fed's decision to cut policy rate straight to zero on Mar 16, virtually all of DM has hit the zero lower bound (see <u>UBS global monetary stimulus tracker</u>).

In comparison, reactions from China central bank so far have been much more restrained than what have been taken by the DM and relative to China's credit stimulus in previous downturns. Since Jan 20, China has lowered its 1-year LPR by only 10bp, and our China econ team expects another 20bp cut upcoming in April. To recall, the PBOC chief Yi Gang has commented earlier in last year that China is in no rush to follow the global easing trend, and the current space for normal monetary policy should be cherished. As such, although we expect China's policy easing is set to strengthen further, we believe this will continue to follow a careful and gradual manner, and expect no massive credit or property stimulus.

Putting the banking sector in this context, with China's rate environment still much better than that of most DM and careful stance by policymakers, we think China banks will be facing relatively less pressure on NIM and earnings compared to peers in the DM. Since the COVID-19 outbreak, China bank stocks have been

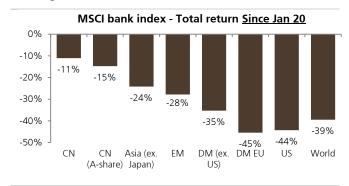
more resilient, with MSCI China Banks Index outperforming major global banking indices significantly (Figure 31).

Figure 30: Overview of monetary & balance sheet stimulus provided since January 20



Source: <u>UBS global monetary stimulus tracker</u>, Haver

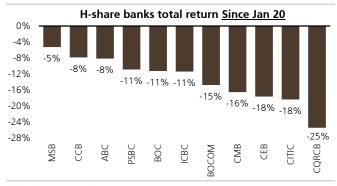
Figure 31: China banks outperformed major global banking indices since COVID-19 outbreak



Pricing date as of April 3, 2020.

Source: Datastream

Figure 32: With H-share banks, large banks generally outperformed



Pricing date as of April 3, 2020. Source: Datastream

...although NIM pressure on banks inevitable with ongoing LPR reform and policy easing

Following the adoption of loan prime rate (LPR) on the pricing of new loans since August 2019, loan rates of new corporate loans have been trending downward along with the multiple rate cuts on LPR (Figure 33). Latest data from PBOC suggests that the loan rates on new corporate loans have likely declined at an accelerated pace in February 2020 (loan rates of general loans excluding mortgages declined by 20bp from Jun-19 to Dec-19, and by 25pbs from Dec-19 to Feb-20), amid the outbreak of coronavirus (COVID-19).

However, the impacts of declining loan rates have yet to be fully reflected in banks' NIM, before the switch of existing loan book's pricing mechanism to LPR is completed. After the completion of LPR adoption by end of August 2020, banks' NIM would be more sensitive to the central bank's policy rate in an easing environment. Given the regulator's intention to contain property prices, we believe 5-year LPR is likely to decline at a milder pace than 1-year LPR, which should partly ease the NIM pressure on banks with higher share of mortgages. We previously estimated that every 100bp LPR decline would lower banks' NIM by 12-21bp on a 12m horizon, all else equal (Scenario 3 in our <u>earlier report</u>).

Looking ahead, we expect more monetary easing amid a weaker growth outlook, including more liquidity support through RRR cuts, on-lending and MLF facilities. We currently expect 10-20bp policy-rate cuts (in addition to expected 20bp MLF/LPR cut in April).

Figure 33: New corporate loan rate started to trend down post LPR reform...

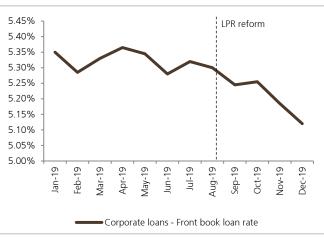
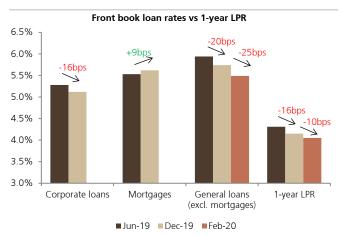


Figure 34: ...with the pace of decline likely accelerated in Q120



Source: PBOC

Source: PBOC

Potential deposit benchmark rate cut a cushion to NIM pressure

Following earlier comments by central banks officials that the PBOC could make timely and appropriate adjustment to the deposit benchmark rates (BMR) considering factors including economic growth and price levels, there is rising market expectation for an upcoming deposit BMR cut. Given the recent rate cuts by US Feb, we think a deposit BMR cut seems increasingly likely in the second half of this year, after China's CPI inflation trends down from current elevated level. We think a potential deposit BMR cut will likely be moderate (<25bp).

In our <u>sensitivity analysis</u>, we estimate that every 10bp cut in deposit BMR could result in net accretion of 3-6bp for banks we cover, assuming the deposit BMR cut is instantly reflected in banks' deposit costs. In reality, the impacts will be reflected over time as existing deposits mature and are repriced. We expect banks with higher proportion of deposits in funding mix, higher share of time deposit, and lower overseas exposure, are likely to benefit more.

While a deposit BMR cut is positive to banks' NIM, we think this will only partially offset the downward pressure on NIM, as a deposit BMR cut will make room for banks to be more willing to cut their lending rates amid the policy goal to support economic growth and lower financing cost of the real economy.

Figure 35: Net impacts on NIM from deposit BMR cut and market rate decline

As of 1H19	ICBC	ССВ	ABC	вос	PSBC	восом	СМВ	CITIC	PAB	HXB	IB
Assume 10bps deposit BMR cut											
Impact on NIM (bps)	3.8	3.9	3.4	3.5	5.9	5.0	3.8	5.3	4.8	4.7	5.7
Impact on profits (1H19)	2.4%	2.3%	2.5%	2.3%	6.7%	4.6%	1.9%	4.5%	4.0%	4.9%	4.3%
Assume 25bps deposit BMR cut											
Impact on NIM (bps)	9.5	9.7	8.4	8.8	14.6	12.6	9.5	13.3	11.9	11.8	14.2
Impact on profits (1H19)	6.0%	5.7%	6.4%	5.7%	16.7%	11.4%	4.7%	11.3%	9.9%	12.2%	10.7%

Note: In estimating the net impacts on NIM, we consider the impacts from both a lower deposit cost and declined market rate driven by deposit BMR cut. Source: Company data, UBS estimates

We see upside risk to JSBs NIM with market rate trending down

Apart from above, there are a couple of factors that could affect banks' NIM this year, including regulatory directive to further lower lending rate to MSE, waiving of overdue charges for enterprises affected by virus, lower market rates, RRR cuts, etc. In the following tables, we discuss how each of these factors could come into play and which banks would potentially be impacted more.

Given the many moving parts involved, some of which are more difficult to quantify, we summarise the potential impacts on individual banks directionally in Figure 37. Overall, we expect a decline in loan yield driven by LPR cuts and weaker loan demand to be a key driver of a downward trend on NIM. A deposit BMR cut, if happens, could provide a large relief to banks' NIM pressure.

With ongoing monetary easing, market rates have already been trending down significantly from the 2019 level, which will benefit funding cost of net interbank borrowers. As such, we see upside risk to JSBs' NIM, especially for those with higher interbank funding exposure such as MSB and CITIC. Among large banks, we expect PSBC may see its NIM hold up better than its peers, given it would benefit the most from a deposit BMR cut, and the NIM accretion from its strategy to further lift LDR and boost online consumer loans that generate attract yield at manageable risk.

Figure 36: Factors that are likely to impact banks' NIM

Factors	Direction	Which banks may be impacted more and why?
Sensitivity to LPR cut	Negative	Consumer lending (i.e. fixed rate) and mortgage should be less impacted by LPR cuts. Banks with higher share of consumer loans and mortgage in loan book should be relatively better positioned (Figure 38).
Cutting financing cost for inclusive finance MSE	Negative	The financial regulator aims to lower financing cost of inclusive finance MSE loans by another 50bp in 2020. Banks with higher share of inclusive finance MSE loans are likely to be impacted more. (Figure 39)
Waiving overdue charges for enterprises affected by virus	Negative	Micro, small, and medium sized enterprises impacted by COVID-19 can apply for extension of interest and principle repayment for the period of Jan 25, 2020 to Jun 30, 2020. We use banks' exposure to private sector as a proxy of exposure to micro, small, and medium sized enterprises. (Figure 40)
Overseas exposure	Negative	Given the massive rate cuts by global central banks after COVID-19 turns into a global pandemic, we expect China banks' exposure loan exposure to be negatively impacted. BOC has the highest overseas loan exposure among China banks (Figure 41).
Lower market rates	Negative/ Positive	Interbank market rates have continued to trend down in 2020. DR007 averages to 2.11% in 2020 YTD, down 42bp versus 2019. In comparison, average level of DR007 in 2019 was 18bp lower than that in 2018 (Figure 42). Banks on a net-borrowing position will benefit from lower market rates.
RRR cut & targeted RRR cut	Positive	The PBOC conducts an annual review on targeted RRR based on banks' lending on inclusive finance areas and implements either 50bp / 150bp RRR cut on banks meeting thresholds. For banks that already qualified for150bp RRR cut in 2019, this will continue to apply thus no incremental impact. For large banks & JSB that only qualified for 50bp cut in 2019 (i.e. BOC, BOCOM, CMB), they will be qualified for 150bp of RRR cut in 2020, thus equivalent to incremental RRR cut by 100bp.
Potential deposit BMR cut	Positive	We believe a deposit BMR cut is likely this year, which will make room for banks to further lower lending rates to real economy. We expect banks with higher proportion of deposits in funding mix, higher share of time deposit, and lower overseas exposure, are likely to benefit more (Figure 43).
Potential shift in asset mix/ loan mix Source: UBS estimates	Negative/ Positive	We expect PSBC's asset yield to benefit from a continued rise in LDR, and greater allocation to consumer loans. Over the past three years from 2017-19, most JSBs have scaled up their loan allocation to non-mortgage consumer credit which has contributed to higher asset yields. With consumer credit growth likely to take a hit in 2020 due to COVID-19 impacts, we expect corporate loans to account for a higher share in JSB's net increase in loans in 2020, which could weigh on their asset yields (Figure 44 and Figure 45).

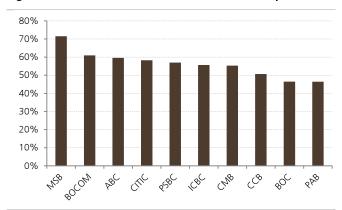
Figure 37: Potential impact of NIM drivers on individual banks

Positive ("+") / Negative ("-") impact to NIM	ICBC	CCB	ABC	вос	PSBC	восом	СМВ	CITIC	PAB	MSB
Sensitivity to LPR cut				-					-	
Cutting financing cost for inclusive finance MSE	-	-	-	-		-		-	-	
Waiving overdue charges for enterprises impacted by virus	-	-	-	-	-	-				
Overseas exposure			-				-	-		-
Lower market rates				+		++	++	+++	++	+++
Clamp down of non-compliant deposit products	+	+	+	+	+	+	+	+	+	+
RRR cut & targeted RRR cut	+	+	+	++	+	++	++	+	+	+
Potential deposit BMR cut	++	++	++	+	+++	++	+	++	++	++
Potential shift in asset mix/ loan mix					+++	-	-	-		-

Note: We use "+" and "-" to denote positive and negative impact to NIM, respectively. The number of "+"/ "-" denotes the degree of impacts. Source: UBS estimates

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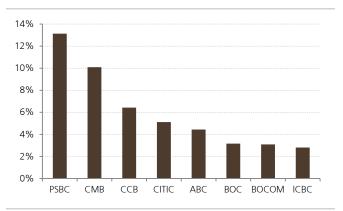
Figure 38: Share of loan book to domestic enterprises



Note: Both business loans booked under corporate and retail loan book are included.

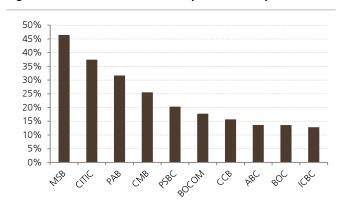
Source: Company data, UBS estimates

Figure 39: Share of loan book to inclusive finance MSE



Source: Company data

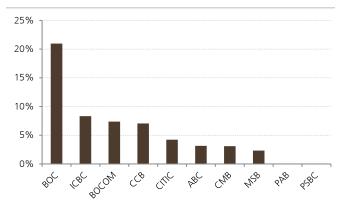
Figure 40: Share of loan book to private enterprises



Note: Both business loans booked under corporate and retail loan book are included

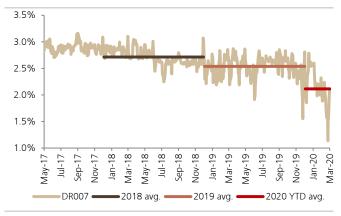
Source: Company data, UBS estimates

Figure 41: Overseas exposure in loan book



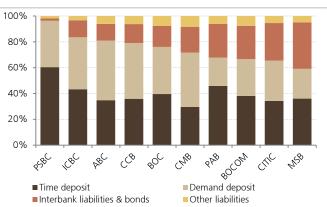
Source: Company data, UBS estimates

Figure 42: Daily interbank repo rate (DR007)



Source: CEIC, UBS

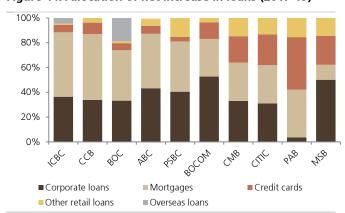
Figure 43: Funding mix (Dec-2019)



Source: Company data

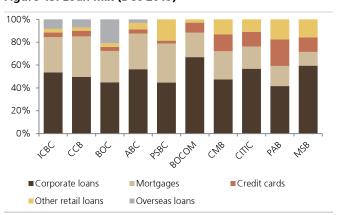
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Figure 44: Allocation of net increase in loans (2017-19)



Source: Company data, UBS

Figure 45: Loan mix (Dec-2019)



Source: Company data

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PIVOTAL OUESTIONS

return 1

Q: Is the outlook for retail banking more negative than corporate banking?

UBS VIFW

Yes, in the short-term. We expect challenges to consumer loans in the near-term on both loan growth and asset quality, given rising unemployment pressure, weakened income growth outlook, and significant disruption to normal consumption activities. We expect retail loan growth could slow to 7% YoY in 2020 from 16% in 2019. That said, we remain constructive on the medium-term outlook of retail banking, given China's path towards a more consumption-led economy and as the trend of consumption upgrade should continue. We downgrade PAB to Neutral from Buy as its asset quality could be under pressure due to its higher exposure to non-mortgage consumer credit.

EVIDENCE

City lockdowns and quarantines have resulted in substantially lower consumption growth, with Jan-Feb retail goods sales down 17.6% YoY. The most recently released urban unemployment rate jumped to 6.2% in February, compared to a narrow range of 4.8-5.4% since 2017. In a recent media conference, CBIRC confirmed that credit cards and home equity loans are contributing to most of the rise in NPL and SML.

WHAT'S PRICED IN?

Share prices of CMB-H and Ping An Bank have declined 14%/ 22% since the virus outbreak, reflecting market concern over the outlook for retail-focused banks. With retail banking weakness likely to persist in H120, we think the share prices of CMB and Ping An Bank will continue to underperform, given they are still trading at a large valuation premium against large banks after a substantial expansion of valuation premium in 2019.

Near-term pressure on delinquency and loan growth

China under rising unemployment pressure

China has taken unprecedented efforts to contain the spread of COVID-19, implementing city lockdowns, movement restrictions, and delayed work resumption post Chinese New Year. While the nationwide shutdown helped to contain virus spread quickly, it came with the cost of a halt of economic activities for a few weeks before recent gradual recovery, as well as a sharp rise in unemployment.

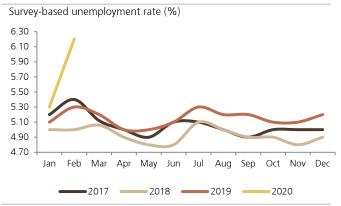
A couple of high-frequency data have all pointed to rising unemployment pressure. The official survey-based nationwide urban unemployment rate jumped to 6.2% in February, compared to a narrow range of 4.8-5.4% since 2017. The urban unemployment rate for 31 large cities at 5.7% was better than nationwide average, but was also at a record high since 2013.

Urban new job creation, which is one of the government's annual policy target on labour market, has also shown notable weakness. Urban new job creation in Jan-Feb totalled 1.08mn, compared to an average of 1.82mn over the past seven years. The PMI sub-indices on employment for both manufacturing and non-manufacturing sectors have both plummeted to levels far below that seen during

the 2008 Great Financial Crisis. Our channel checks are also consistent with above macro data, as an NPL collection company indicated that it has found it easier to hire new staff in Q1 this year.

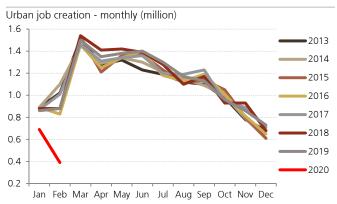
On the positive side, with domestic spread of COVID-19 largely under control, the pace of work resumption has accelerated in March (see <u>UBS China Daily Activity Tracker</u>), with 71.7% of small & medium sized enterprises (SME) nationwide resumed work by March 24, compared to 29.6% on February 23. That said, despite the gradual work resumption, we believe a majority of these businesses are still operating at far below full capacity. With COVID-19 now an evolving global pandemic, a sharp contraction of external orders is widely expected, which will put further pressure on export companies.

Figure 46: Unemployment rate rose noticeably in Feb



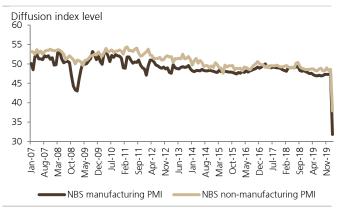
Source: CEIC

Figure 47: Urban monthly job creation plummeted



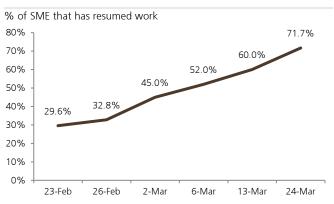
Source: CEIC

Figure 48: PMI employment sub-indices dipped to record low



Source: CEIC

Figure 49: Work resumption ratio by SME has improved notably entering into Mar



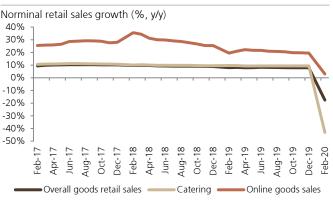
Source: MIIT

Consumption and retail loan volume took a hard hit in Jan-Feb

City lockdown and quarantine have resulted in plummeted consumption growth in Jan-Feb. Latest NBS data shows that Jan-Feb retail goods sales declined by 17.6% YoY with catering down 43% YoY and auto sales down 37% YoY. Online sales of goods were relatively resilient, posting a growth of 3% YoY.

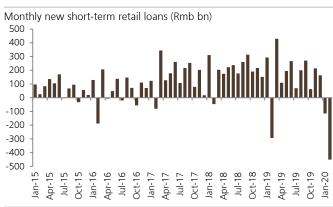
Along with the shrinkage in consumption, balance of short-term consumption loans also recorded a sharp decline. New short-term retail loans contracted by Rmb565bn in Jan-Feb (Jan: -Rmb115bn; Feb: -Rmb450bn). While the decline was in part due to seasonality season of Chinese New Year (CNY) holidays, the magnitude of contraction was much larger than the same period in prior years.

Figure 50: Jan-Feb retail sales plummeted



Source: PBOC

Figure 51: Feb short-term retail loan contracted sharply



Source: PBOC

In addition, several external data sources also point to very weak new retail loan business in Jan-Feb:

- Sharp decline in new credit card business: Caixin reported that Jan-Feb new credit card issuance were at historical low at some large banks, with one large bank seeing a 70% YoY decline and one joint stock bank recording 50% decline in new credit card issuance.
- Bank loan enquiry volume not yet recovered to pre-CNY holiday level: data from a third-party big data analytics company (100 credit) shows that loan enquiry volume three weeks after CNY was only at ~60% of pre-CNY level, while in 2019 loan enquiry volume fully recovered three weeks post CNY.
- Very weak auto loan enquiry volume post CNY: 100 credit data shows that auto loan enquiry volume three weeks after CNY was only ~10% of pre-CNY level, while in 2019 loan enquiry volume improved to 50-60% three weeks post CNY.

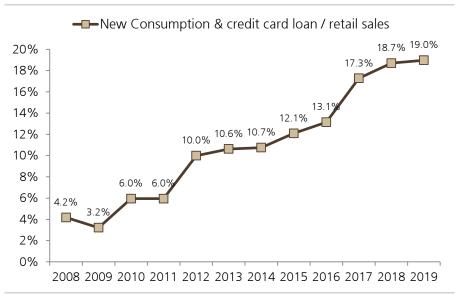
How bad could retail loan growth be hit by COVID-19?

The weak retail loan demand and its negative impact on bank's NIM have become a key investor concern on China banks since the COVID-19 outbreak.

To estimate the consumption and credit card loan growth for 2020, we look at the correlation between retail sales and consumption loan growth. We find that with the rising penetration of consumer credit, retail sales fuelled by loans increased from 4% in 2008 to 19% in 2019. Assuming new consumption loan as share of retail sales unchanged at 19% in 2020, we estimate every 1% decline in retail sales could lead to 0.6% decline in consumption loan growth. In our base case, assuming 2020 retail sales posted muted growth (i.e. Q1 down by 20% YoY; Q2-Q4 unchanged as last year), we expect retail loan growth could slow to 7% YoY in 2020 from 16% in 2019, but followed by a recovery of 20% in 2021 on 7% retail sales growth.

For mortgages, we expect mortgages and secured loans using property as collateral to see stable growth, given relatively good asset quality. At FY19 analyst briefing, both CMB and Ping An Bank management expect mortgages and secured loans to keep steady growth in 2020.

Figure 52: Retail sales fuelled by loans increased from 4% in 2008 to 19% in 2019 by our estimates



Source: PBOC, NBS, UBS estimates

Figure 53: Sensitivity analysis on consumption loan growth

			Consumpti	on & credit	card loans /			
		16%	17%	18%	19%	20%	21%	Implied Mar-Dec 2020 retail sale growth
	-8%	-6%	-3%	0%	2%	5%	8%	Mar retail sales -20% yoy; Apr-Dec lower than last yea
	-5%	-5%	-2%	1%	4%	7%	10%	Mar retail sales -20% yoy; Apr-Dec same as last year
	-2%	-3%	0%	3%	6%	9%	12%	Mar to Dec 2020 increase by 1.6% yoy
020 retail sales	0%	-2%	1%	4%	7%	10%	13%	
UZU IEtali SaleS	2%	-1%	2%	5%	8%	11%	14%	
	4%	0%	3%	6%	9%	12%	15%	
	6%	1%	4%	7%	10%	13%	17%	
	8%	2%	5%	8%	11%	15%	18%	

Source: UBS estimates

What happened to retail loan growth in previous cycles?

We also look at previous cycles (2008-09, and 2015-16) to see how much retail loan growth could be affected amid economic downturn. Figure 54 shows that the short-term consumption loan growth was still resilient with the trough level at 27% in Q109 and 20% in Q416. The strong growth was mainly helped by low household leverage at those times. At end of 2009, shot-term consumption loan only accounted for 1.8% of China's GDP as bank card penetration is still low, and such ratio increased to 6.7% in 2016, still relatively low compared to other markets.

Historical trend in other developed markets may also be used for reference. In US, the global financial crisis resulted in as much as 20% decline in revolving credit in December 2009. Hong Kong and Taiwan also had credit card crisis in 2000s. Hong Kong credit card loan decreased by 10% in 2003 and Taiwan saw 27% decline in consumption and credit card loan in 2007.

Figure 54: China consumer loan growth

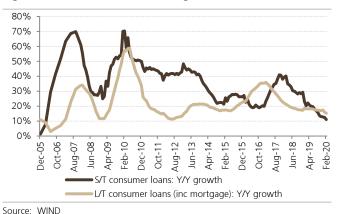
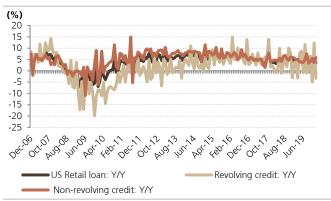


Figure 55: US retail loan growth



Source: WIND

Figure 56: HK retail loan growth

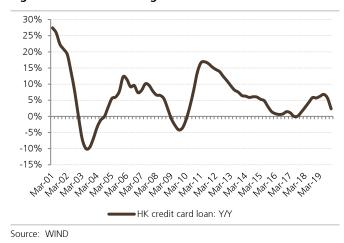
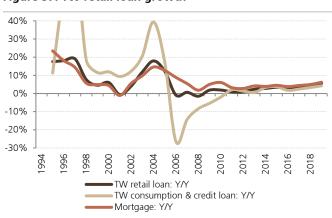


Figure 57: TW retail loan growth



Source: WIND

Asset quality of retail banking to face a stress test

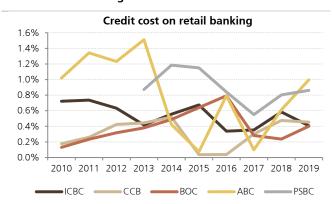
The weakened labour market and economic activities due to the COVID-19 outbreak could have a big impact on households' income cash flows, in particular among the lower income group. According to a recent data disclosure by CBIRC in a media conference, NPL ratio/ SML ratio of banking financial institutions by the end of February edged up by 5bp/ 17bp from previous month, with credit cards and home equity loans contributing to most of the rise. With global spread of COVID-19 a new uncertainty to domestic work resumption and external demand, we think asset quality of consumer loans could be under further pressure in the coming quarters.

Over the past few years, JSBs have been more aggressive in growing their credit card loans and other consumer credit. With a higher risk appetite than large banks, these banks have also seen a rapid rise in retail banking credit cost since 2018

 (Figure 59). In addition, prior to the COVID-19 incident, the banking sector was already going through upticks in consumer loans, partly as a result of rising penetration of online cash loans and increased credit risk of multi-platform borrowers. If we use retail loan yield deducting credit cost as a rough estimate of risk-adjusted loan yield, banks with higher risk appetite on consumer loans (i.e. Ping An Bank, BOCOM) have seen a faster decline, thus narrowing their lead in risk-adjusted retail loan yields versus peers (Figure 64).

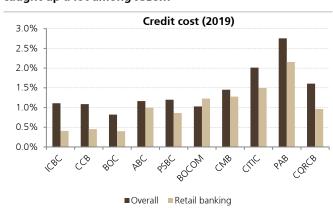
In terms of risk reserve, while most banks do not disclose their loan loss reserves for corporate banking and retail banking separately, we believe many banks do not maintain a large reserve for retail loan book, given credit costs for retail banking have been trending down prior to 2017 and only picked up in the past two years. Given a material rise in delinquency for consumer loans is likely for the coming quarters, we think many banks may have to further scale up the impairment charges for retail banking. Comparatively, the big 4 banks will likely to least impacted given mortgages accounted for around 80% of their retail loan books (Figure 63).

Figure 58: Most large banks have maintained low credit cost on retail banking...



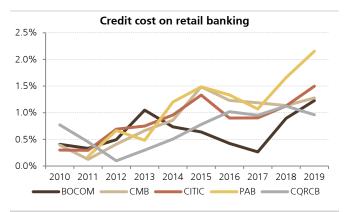
Source: Company data

Figure 60: Credit costs for retail banking have already caught up a lot among JSBs...



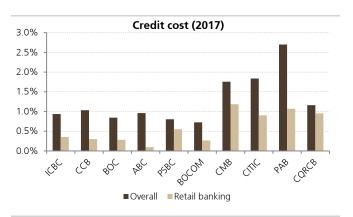
Source: Company data

Figure 59: ...in contrast to a material pickup among JSB since 2018



Source: Company data

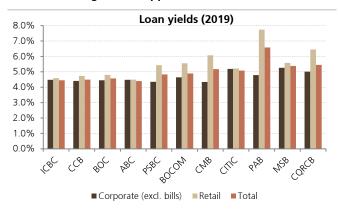
Figure 61: ...compared to 2017



Source: Company data

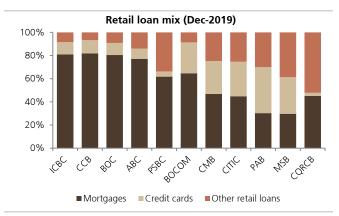
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Figure 62: Higher retail banking credit costs at JSBs were the result of higher risk appetite...



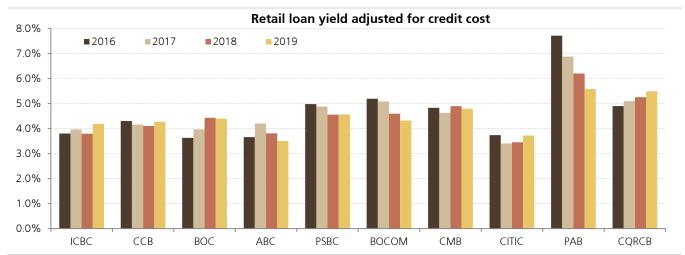
Source: Company data

Figure 63: ...towards higher-yield non-mortgage retail loans



Note: Other retail loans include consumer loans and personal business loans. Source: Company data

Figure 64: Risk-adjusted return of retail loans trending down for some banks prior to COVID-19



Source: Company data, UBS

How much consumer loan NPLs will happen in 2020?

Out of our forecast of Rmb5.8trn of shock-driven NPLs resulting from economic shocks caused by COVID-19, we estimate around 12.7% (or Rmb740bn) would stem from non-mortgage consumer credit by assuming the same breakdown of new NPL formation in 2019. We further assume 50% of above shock-driven NPLs for consumer credit would materialise in 2020. Coupled with normalised NPL formation ratio of around 2.8%, we come up with an estimated gross NPL formation ratio of non-mortgage consumer credit at 5.8% in 2020, doubling the level from normal times. This will put the asset quality of banks with more aggressive growth of non-mortgage consumer credit at higher pressure in 2020, in our view.

Figure 65: We estimate NPL formation of non-mortgage consumer credit to double in 2020 on COVID-19 impacts

	Loan balance	ormation ratio	(FY20e)	
	End-2019	Normalised	Shock-driven	
	(Rmb trn)	NPL	NPL	Total
Consumer credit				
Mortgage	30	0.3%	0.0%	0.3%
Other consumer credit	12	2.8%	3.0%	5.8%
Total	43	1.0%	0.9%	1.9%

Source: CBIRC, UBS estimates

Medium-term positive outlook for retail banking intact

Despite near-term challenges on both loan growth and asset quality, we remain positive on the medium-term outlook of retail banking, after we move beyond the temporary impacts of COVID-19.

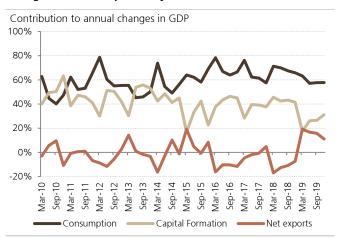
Overall, we believe China's path towards a more consumption-driven economy will continue. Domestic consumption contributed to 57.8% of incremental GDP in 2019, and has remained the largest driver for GDP growth in the past six years (Figure 66). Despite a rapid growth in China's consumer market in incremental size in the past decade, as a share of the economy and compared to other countries at their similar stage of development, Chinese consumption still has much room to grow (Figure 67).

In addition, we believe the general trend of consumption upgrade by Chinese households remains intact. While overall Chinese consumption growth has been resilient, discretionary spending by households has been growing at a faster pace than consumption of basic goods such as food and clothes, as household income gradually rose. We estimate that ~1/3 Chinese urban household consumption now goes towards services, up from a tenth two decades ago.

With the rapid development of e-Commerce in recent years, there is also a clear trend of shifting consumption channels from offline to online. By end-2019, online goods sales already accounted for 23% of overall retail goods sales in China. More importantly, online goods sales have remained relatively resilient even with the impacts of COVID-19, posing a 3% YoY growth in February 2020 when the overall retail goods sales fell.

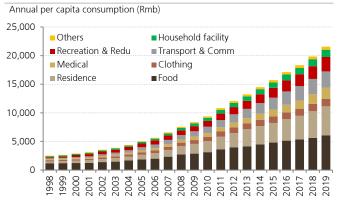
Along with secular growth of consumption by Chinese households, we expect consumer loans will also recover faster and stronger after the impacts of COVID-19 fade off. Our earlier UBS Evidence Lab China Consumer Credit Survey suggests that close to 60% of respondents (who were existing borrowers) indicated that they have borrowed for consumption purpose more frequently than the previous year. In addition, respondents showed improved awareness for the importance of maintaining good credit record, which we believe is a positive for the long-term development of consumer credit.

Figure 66: Consumption remains the largest driver for GDP growth in the past six years



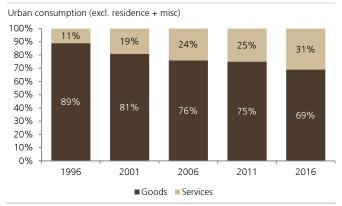
Source: CEIC

Figure 68: Discretionary spending now accounts for a larger share of Chinese household consumption...



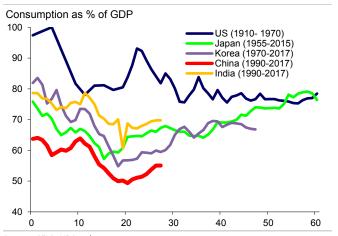
Source: CEIC

Figure 70: Services' share of household consumption has risen



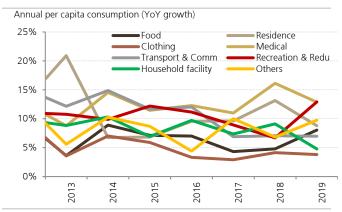
Source: CEIC, UBS estimates

Figure 67: China's rebalancing towards consumption should continue



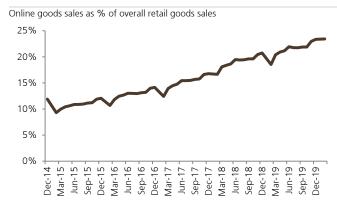
Source: CEIC, UBS estimates

Figure 69: ...and has maintained stronger growth momentum



Source: CEIC

Figure 71: China's retail sales through e-commerce channels continues to grow rapidly

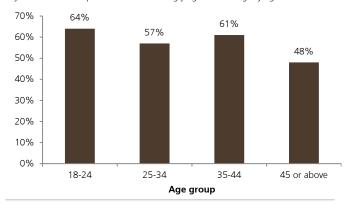


Source: CEIC

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Figure 72: Borrowing for consumption purposes becoming more common for Chinese households

Compared to last year, I borrow for consumption purpose more frequently this year - Share of respondents who "Strongly agree" or "Slightly agree"

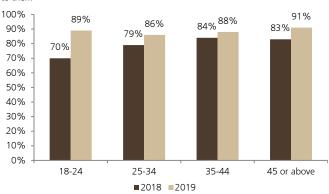


Note: Respondents from China Consumer Credit survey conducted in November 2019.

Source: UBS Evidence Lab

Figure 73: Past surveys show improved awareness for importance of good credit record

Share of respondents who agreed maintaining good credit record is important to them



Note: Respondents from China Consumer Credit survey conducted in November 2019 and November 2018.

Source: UBS Evidence Lab

What's priced in?

Source: Datastream, UBS

Figure 74: H-share banks avg. 1-y fwd P/BV

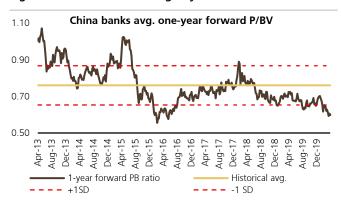


Figure 75: A-share banks avg. 1-y fwd P/BV



Source: WIND, UBS

H & A-share banks are trading at 0.60x/0.66x one-year forward P/B respectively. Most banks are currently trading at record trough level against 12-16% ROE, except CMB. This is no surprise as we are in an unprecedented time of pandemic with a looming global recession. Investors are skeptical about the sustainability of bank's ROE, due to NIM compression and rising NPLs/credit costs. Our reverse engineering suggests that current sector valuation implies NPL ratio at around 4.0%-12.5% (except CQRCB's 29%) amid Chinese banks, which is actually in line with our estimate of banking sectors' aggregate NPL formation at 13.4% in 2020.

with our estimate of banking sectors' aggregate NPL formation at 12.4% in 2020-2025E. We believe these NPLs will be recognized and dealt with on a multi-year horizon.

Are China banks' valuation fair then?

Major Chinese banks' share price have corrected by c.11-23% since the COVID-19 outbreak in China. We believe banks' current valuations have largely factored in the current market view of slower China GDP growth at 2-4% in 2020 and the resulted bank asset quality deterioration. However, given the widespread of COVID-19 worldwide, there could be more downside risk for bank stocks from trade-related and global supply chain disruptions as a result of bad global recession. However, the unprecedented massive stimulus packages announced by governments at many countries could also lead to some upside in bank stocks. In addition, any earlier-than-expected containment of the corona virus could also lead to share price upside.

Figure 76: Summary of banks' share price performance

	Ticker	Rating		Price t	arget	Price	Implied	Dividend	Stock performance (total return)					
		(New)	(Old)	(New)	(Old)	(LC)	upside	yield	1-w eek	1-month	3-month	YTD	52-w eek	
UBS H-shar	e coverage													
PSBC	1658.HK	Buy	Buy	5.90	6.50	4.71	25%	5.0%	-0.2%	-4.7%	-9.4%	-11.1%	7.0%	
ССВ	0939.HK	Buy	Buy	7.60	8.30	6.30	21%	5.6%	-0.6%	-0.8%	-4.0%	-6.4%	-5.2%	
ICBC	1398.HK	Buy	Buy	6.30	6.80	5.27	20%	5.5%	-0.8%	-1.7%	-9.8%	-12.2%	-7.1%	
ABC	1288.HK	Neutral	Neutral	3.30	3.20	3.12	6%	6.5%	0.3%	-1.9%	-6.9%	-9.0%	-11.5%	
CQRCB	3618.HK	Neutral	Neutral	3.20	4.20	3.14	2%	8.1%	-1.3%	-11.3%	-20.7%	-21.1%	-30.7%	
вос	3988.HK	Neutral 👢	Buy	3.10	4.60	3.01	3%	7.1%	1.3%	-2.6%	-6.5%	-9.6%	-15.2%	
СМВ	3968.HK	Neutral	Neutral	35.10	42.60	35.00	0%	3.8%	0.0%	-7.3%	-12.3%	-12.6%	-12.8%	
MSB	1988.HK	Neutral	Sell	5.60	n.a.	5.70	-2%	7.2%	-1.0%	3.1%	-1.9%	-3.2%	0.2%	
Huishang	3698.HK	Sell	Sell	2.70	2.90	2.90	-7%	6.0%	4.7%	0.3%	-2.0%	1.4%	-13.4%	
восом	3328.HK	Sell 👢	Neutral	4.20	5.80	4.85	-13%	7.2%	2.1%	-3.8%	-10.2%	-12.5%	-22.7%	
CITIC	0998.HK	Sell 👢	Neutral	3.30	4.70	3.82	-14%	7.0%	-0.3%	-6.6%	-15.1%	-18.2%	-21.1%	
Average								6.3%	0.4%	-3.4%	-9.0%	-10.4%	-12.0%	
UBS A-shar	e coverage													
CCB-A	601939.SH	Buy	Buy	8.22	8.80	6.42	28%	5.0%	1.3%	-3.2%	-10.1%	-11.2%	-9.2%	
ICBC-A	601398.SH	Buy	Buy	6.52	6.80	5.16	26%	5.1%	0.2%	-4.6%	-12.7%	-12.2%	-7.4%	
CMB-A	600036.SH	Buy	Buy	37.00	45.70	32.52	14%	3.7%	0.7%	-8.2%	-15.3%	-13.5%	-7.1%	
мѕв	600016.SH	Neutral	Neutral	6.11	n.a.	5.78	6%	6.4%	1.2%	-2.0%	-8.1%	-8.4%	-7.7%	
PAB	000001.SZ	Neutral 🦊	Buy	13.24	18.62	12.88	3%	1.9%	0.6%	-14.3%	-22.7%	-21.7%	-6.8%	
ABC-A	601288.SH	Neutral	Neutral	3.60	3.90	3.42	5%	5.3%	1.5%	-2.3%	-7.3%	-7.3%	-5.6%	
BOC-A	601988.SH	Neutral 👢	Buy	3.47	4.70	3.51	-1%	5.4%	0.9%	-3.3%	-4.9%	-4.9%	-5.6%	
CITIC-A	601998.SH	Sell 棏	Neutral	4.57	6.00	5.18	-12%	4.6%	0.0%	-6.8%	-15.1%	-16.0%	-17.9%	
Average			•			•		4.6%	0.9%	-6.0%	-12.6%	-12.6%	-9.0%	

Source: Reuters, UBS estimates

Base case: We assume 1.5%/7.5% GDP growth (4.5% CAGR) in 2020/2021, and 33%/24% of shock-related NPL formation will be formed in 2020/2021E. In such case, quarterly GDP will see -5.0% YoY/+1.5% YoY in 1Q20-2Q20. This would translate to 3.0%/2.8% NPL formation in 2020/2021 across banking sector. In this scenario sector earnings would see 5% YoY decline in average with SML ratio up to 5.6% in 2020E versus 2.9% in 2019 and NPL ratio up to 2.81% from 1.86% in 2019. Coverage ratio would decline to c.126%/122% accordingly in the upcoming two years. NIM wise, given the inevitable asset yield pressure from LPR and etc could not be fully offset by funding support from RRR and potential deposit benchmark rate cut, we estimate banks NIM would see mid-to-high single basis point YoY decline.

For individual banks, we believe the above scenario might be distorted as it might ignore individual banks' varying risk management quality and risk appetite. Besides, some banks are much more prudent on NPL disposal and compliant loan classification. Although we do not know the specific minimum requirement for each bank, we believe large SOE banks could generally enjoy close to a 120% minimum requirement. part from adopting the same NPL formation ratio to assess the potential earnings impact on individual banks, we made adjustment based on the perception that large SOE banks and high-quality JSBs have stronger risk control capabilities. We therefore lower our assumed NPL formation ratio: 1) 50-100bp for the big six SOE banks and CMB versus the sector NPL formation ratio; and 2) 0-50bp for JSBs and other smaller banks.

Figure 77: Upside/downside scenario analysis table of our covered H & A share banks

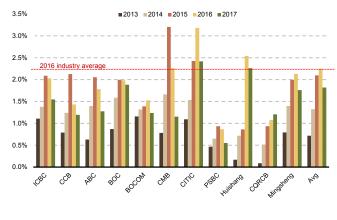
						H-share									A-sh	nare			
Company	ICBC	CCB	ABC	BOC E	BOCOM	PSBC	CMB	CITIC	MSB	CQRCB	uishang	ICBC	CCB	ABC	BOC	CMB	CITIC	MSB	PAB
Base case price target	6.30	7.60	3.30	3.10	4.20	5.90	35.10	3.30	5.60	3.20	2.70	6.52	8.22	3.60	3.47	37.00	4.57	6.11	13.24
Current price	5.20	6.22	3.06	2.97	4.70	4.67	34.40	3.76	5.65	3.05	2.95	5.14	6.40	3.40	3.49	32.15	5.13	5.71	12.61
Upside valuation	7.60	9.20	4.00	4.00	5.00	7.20	43.90	4.20	6.30	3.70	3.40	7.87	9.95	4.37	4.47	45.70	5.82	7.02	20.90
- Diff to current price	46%	48%	31%	35%	6%	54%	28%	12%	12%	21%	15%	53%	55%	28%	28%	42%	13%	23%	66%
Downside valuation	4.40	5.20	2.50	2.50	3.50	4.10	24.10	3.00	4.10	2.70	1.80	4.56	5.62	2.73	2.79	28.00	4.16	4.53	6.80
- Diff to current price	-15%	-16%	-18%	-16%	-26%	-12%	-30%	-20%	-27%	-11%	-39%	-11%	-12%	-20%	-20%	-13%	-19%	-21%	-46%
Upside case																			
2020E NIM	2.48%	2.49%	2.41%	2.07%	1.75%	2.76%	2.85%	2.26%	2.08%	2.49%	2.64%	2.48%	2.49%	2.41%	2.07%	2.85%	2.26%	2.08%	2.76%
2020E Credit cost	0.84%	0.87%	0.82%	0.58%	0.93%	0.66%	1.03%	1.69%	1.80%	1.19%	1.18%	0.84%	0.87%	0.82%	0.58%	1.03%	1.69%	1.80%	2.70%
Base case																			
2020E NIM	2.18%	2.19%	2.11%	1.77%	1.55%	2.46%	2.55%	2.06%	1.88%	2.29%	2.44%	2.18%	2.19%	2.11%	1.77%	2.55%	2.06%	1.88%	2.56%
2020E Credit cost	1.14%	1.17%	1.12%	0.88%	1.13%	0.96%	1.33%	1.89%	2.00%	1.39%	1.38%	1.14%	1.17%	1.12%	0.88%	1.33%	1.89%	2.00%	2.50%
Downside case																			
2020E NIM	1.98%	1.99%	1.91%	1.57%	1.25%	2.26%	2.35%	1.76%	1.58%	1.99%	2.14%	1.98%	1.99%	1.91%	1.57%	2.35%	1.76%	1.58%	2.36%
2020E Credit cost	1.34%	1.37%	1.32%	1.08%	1.43%	1.16%	1.53%	2.19%	2.30%	1.69%	1.68%	1.34%	1.37%	1.32%	1.08%	1.53%	2.19%	2.30%	2.70%

Source: Company data, UBS estimates

• Downside case: If GDP growth in 1Q20 has fallen more than our economist's estimates, and 2Q20 recovery would be weaker due to slower resumption or sharper global recession, GDP growth would face further down side risk. As such, NPL formation would surge caused by slowing economic activities and weaker demand. Under such case, we expect further stimulate policies to be released (ie easing monetary policies, banks to incrementally lower loan pricing to support the economy); and thus banks will suffer from rising pressures on NIM. In addition, if China's macro debt leverage climbs up again significantly, we think investors would assign a higher risk premium to the banking sector.

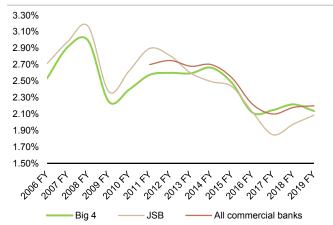
For individual banks, we assume around 20bp higher credit cost than in our based case for large SOE banks and CMB given their better risk control capability, while 30bp for other JSBs and smaller banks, which is equivalent to around 2.5-3.0% gross NPL formation for large banks and 3-3.5% for smaller banks. Such NPL formation assumption has already surpassed the peak level of banks' NPL formation during 2015-16, and we believe this assumption justified for the COVID-19. For NIM, for we assume 15-20bp lower NIM versus base case for large SOE/CMB, but 25-30bp lower for other banks. We believe the worsening economic condition might urge PBOC to further lower MLF and hence the LPR. Amid the severe LPR downward trend, smaller banks will face further NIM pressure given their weaker price bargaining power with corporate clients.

Figure 78: Banks' gross NPL formation rate – we saw peak at c.2-2.5% in 2015-16



Source: Company data, UBS estimates

Figure 79: Our covered banks' NIM saw trough during 2016-2017



Source: CBIRC, company data

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• **Upside scenario:** If coronavirus pandemic is under better control and economic activities resumption accelerates starting from 2Q20 underpinned by strong fiscal stimulus or rapid rebound in property activities, likely aided by supportive policies. Under such case, policy support could be released in a slower pace, and asset quality could recover in a faster pace.

For individual banks, we assume around +30bp lower credit cost than in our based case for large SOE banks and CMB, and -20bp lower for other JSBs and smaller banks. For NIM, for we assume 20-30bp higher NIM versus base case for large SOE/CMB, but 15-20bp higher for other banks.

UBS Research THESIS MAP a guide to our thinking and what's where in this report

PIVOTAL OUESTIONS

Q: Is BOC's NIM having more pressure?

Yes. Besides material headwinds to the sector NIM outlook in 2020, we expect BOC to face more pressure on NIM than peers, as BOC has the highest overseas exposure with overseas assets accounting for 21% of total assets (mostly BOCHK). With the US Fed Fund rate cut 100bp to 0-25bp in mid-March and our UBS economist forecasts Hong Kong GDP to contract by 5.4% in 2020 – the worst in recent record, margin pressure is much higher in the overseas market.

Q: Is BOC's credit cost at risk amid COVID-19 impacts?

In line with our China banking sector view, we expect BOC to go through a tougher NPL cycle in the coming years as a result of COVID-19 outbreak. Though BOC has less exposure to the manufacturing/wholesale and retail sector as well as private sector domestically, its overseas business may face more NPL challenges given the negative outlook for global recession. We expect BOC to have slightly higher credit cost at 88bp in 2020 (vs 80bp in 2019), but still target flat profit growth.

UBS VIEW

We downgrade BOC H & A shares from Buy to Neutral and cut net profit estimates by 4-6% for 2020-2021. We expect muted profit growth in 2020, due to 1) NIM pressure as lower lending rate more than offsets a decline in funding cost. In addition, we expect BOC to face more NIM headwinds than large bank peers given its weak deposit franchise and 20% overseas exposure, which has a much lower rate environment; and 2) higher credit cost in 2020 due to rising NPLs as a result of dramatic economic slowdown in China and globally.

EVIDENCE

BOC assets are 20% overseas assets (mostly BOCHK), and UBS economist forecasts Hong Kong GDP to contract 5.4% in 2020 - the worst in recent record. BOC's deposit franchise is weaker than large bank peers as deposit as share of liability is 77% of total liability, vs 83% at other big four banks.

WHAT'S PRICED IN?

BOC-H is currently trading at 0.4x one-year forward P/BV, a historical low and a 30%/30% discount to ICBC-H/CCB-H. The valuation is undemanding, but we see limited near-term catalysts and therefore downgrade the stock from Buy to Neutral.

UPSIDE / DOWNSIDE SPECTRUM



UBS Research THESIS MAP a guide to our thinking and what's where in this report

PIVOTAL OUESTIONS

Q: Are PAB's earnings at risk amid COVID-19 impacts?

Yes, we expect PAB to report lower profit growth in 2020 than its previously announced 15% target as key growth driver consumer loans is under significant pressure in terms of both growth pace and NPL risks. We cut PAB's 2020E profit growth to 5% (vs 14% in 2019) on 1) lower NIM (2.56% vs 2.62% in 2019) as loan mix shift to more lower-yielding corporate loans, and 2) elevated credit cost of 2.5% (same as in 2019). We downgrade PAB to Neutral from Buy.

more→

Q: What's the NIM outlook for PAB?

Besides material headwinds to the sector NIM outlook in 2020, we expect PAB may face more pressure on NIM than peers, given its higher exposure to retail loans (58% of gross loan) and retail loan mix highly skewed towards consumption and credit card loans (at 70%). Loan mix shift to corporate loans in 2020 would weigh on its NIM given retail loan yield at 7.74% in 2019 was much higher than 4.8% for corporate loans.

Q: Is the outlook for retail banking more negative than corporate banking?

Yes, at least in the next few months. We expect consumer loan growth for the banking industry to slow to 7% YoY in 2020 from 16% in 2019, given rising unemployment pressure, weakened income growth outlook, and disruption to consumption activities. With a higher exposure to non-mortgage consumer credit, we think PAB's asset quality could be under greater pressure.

more→

UBS VIEW

We downgrade Ping An Bank from Buy to Neutral given weak retail loan demand and asset quality deterioration due to COVID-19 outbreak. We expect COVID-19 to have a one-off negative impact on 2020E profit (+5%, vs 14% in 2019) due to lower NIM (2.56% vs 2.62% in 2019) on loan-mix shift to corporate loans and elevated credit cost (2.5%, same as 2019). However, we remain positive on retail banking in the medium term, and forecast the bank's profit growth to rebound to 12% in 2021, assuming retail loan growth returns to normal.

EVIDENCE

PAB may be more affected by weak retail loan demand given its higher exposure to retail loans (58% of gross loan) and retail loan mix highly skewed towards consumption and credit card loans (at 70%). Retail loan yield at 7.74% in 2019 was much higher than 4.8% for corporate loans. Some banks have noted increasing delinquency rates lately, and we think more NPLs could show up later.

WHAT'S PRICED IN?

The share price has corrected 23% YTD, and the stock is now trading at 0.8x 2021E P/BV, largely in line with 5-year average and its JSB peers. We believe it is difficult for PAB to deliver significantly better profit growth and ROE improvement in this challenging environment and thus downgrade to Neutral.

UPSIDE / DOWNSIDE SPECTRUM



Source: UBS estimates

China Minsheng Banking

Wait for the dust to settle

Resume coverage with Neutral rating

We resume coverage of Minsheng Banking with Neutral rating after a period of restriction. Minsheng Banking reported accelerating earnings growth of 7% YoY in 2019 from 1% in 2018, due to YoY NIM expansion, faster asset growth and better cost control. In 2020, Minsheng Banking will start the eighth change of session of its board, and so far there is little visibility on the bank's new strategy. We expect its 2020 earnings growth to decline 5%, weaker than peers, due to NIM contraction and elevated credit cost given potential asset quality deterioration on higher exposure to MSEs and the private sector. Minsheng Banking-H is trading at 0.4x one-year forward P/BV, a historical low and a large discount to peers. While the valuation is undemanding, we suggest investors wait until the uncertainty on new shareholder and management is removed.

Wait for eighth change of session of the board and more clarity on strategy

A board and management reshuffle has been postponed due to COVID-19 outbreak. So far there is little visibility on how the largest shareholder Dajia Insurance will play a role in the board, or how the new strategy will play out, which will take some years to materialise. We suggest investors wait for more clarity.

Business focus on MSE and private sector may not improve its ROE near term

We expect the bank's net profit to decline -5% in 2020, followed by 6% profit growth in 2021-2024, and expect ROE to decline from 12% in 2019 to 10% in 2020 and further decline to 9% in 2024, as 1) decline in loan yield, especially for MSE loans, and limited deposit contribution from MSEs could weigh on the bank's NIM; and 2) credit cost may remain elevated in 2020, given low NPL coverage (156% at end of 2019) and more asset quality pressure from MSE loans (13% of gross loans).

Valuation: PT set at HK\$5.60 with a Neutral rating

Our new PT of HK\$5.60 implies 0.5x 2020E P/BV. Key upside risk includes better-thanexpected asset quality and resilient NIM. Key downside risks include uncertainties due to new senior management onboarding, and slower-than-expected economic recovery.

Equities

China Banks, Ex-S&L

12-month rating

Neutral

Prior: Sell

12m price target

HK\$5.60

Prior: HK\$5.30

Price (06 Apr 2020)

HK\$5.65

RIC: 1988.HK BBG: 1988 HK

Trading data and key metrics

52-wk range HK\$6.12-5.03 HK\$245bn/US\$31.6bn Market cap. Shares o/s 43.782m (ORD) Free float 88% Avg. daily volume ('000) 33,698 Avg. daily value (m) HK\$186.6 Common s/h equity (12/20E) Rmb552bn P/BV (12/20E) 0.4xTier 1 ratio 11%

EPS (UBS, diluted) (Rmb)

	From	То	% ch	Cons.
12/20E	-	1.17	-	1.25
12/21E	-	1.24	-	1.33
12/22E	-	1.31	-	0.95

Highlights (Rmb m)	12/17	12/18	12/19	12/20E	12/21E	12/22E	12/23E	12/24E
Revenues	141,947	154,161	177,745	191,894	207,960	223,836	243,004	264,744
Profit before tax	60,562	58,785	64,738	61,013	64,782	68,493	72,865	77,588
Net earnings (local GAAP)	49,813	50,327	53,819	51,061	54,265	57,419	61,135	65,150
Net earnings (UBS)	49,813	50,327	53,819	51,061	54,265	57,419	61,135	65,150
Tier 1 ratio %	8.9	9.2	10.3	10.5	10.6	10.5	10.6	10.5
EPS (UBS, diluted) (Rmb)	1.14	1.15	1.23	1.17	1.24	1.31	1.40	1.49
Profitability/valuation	12/17	12/18	12/19	12/20E	12/21E	12/22E	12/23E	12/24E
ROE (UBS) %	14.2	12.9	12.5	10.2	9.5	9.4	9.3	9.3
P/PPOP (diluted)	2.7	2.1	1.7	1.6	1.5	1.4	1.3	1.2
P/BV x	0.7	0.5	0.5	0.4	0.4	0.4	0.3	0.3
P/BV (UBS) x	0.7	0.5	0.5	0.4	0.4	0.4	0.3	0.3
P/E (UBS, diluted)	5.1	4.4	4.0	4.4	4.1	3.9	3.7	3.4
Not dividend viold %	3 0	6.7	7.5	6.8	7 2	7 7	8.2	2.7

Net dividend yield %3.0
6.7
7.5
6.8
7.3
7.7
8.2
8.
Source: Company accounts, Thomson Reuters, UBS estimates. Metrics marked as (UBS) have had analyst adjustments applied. Valuations: based on an average share price that year, (E): based on a share price of HK\$5.65 on 06 Apr 2020 22:25 HKT

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UBS Research THESIS MAP a guide to our thinking and what's where in this report

PIVOTAL QUESTIONS

Q: Is uncertainty on new shareholder and management removed?

No. The board and management reshuffle has been postponed due to the COVID-19 outbreak. So far there is little visibility on how the largest shareholder Dajia Insurance will play a role in the board, or how the new strategy will play out, which will take some years to materialise. We suggest investors wait for more clarity.

<u>more</u>→

Q: Can Minsheng Banking's strategy on MSE and private company improve its ROE/ROA?

Not in the near term. We think the bank may not improve its ROE/ROA in the near to medium term, as 1) decline in loan yield, especially for MSE loans, and limited deposit contribution from MSEs could weigh on the bank's NIM, and 2) the bank's higher exposure to MSEs and private companies may put more pressure on the bank's asset quality, which could keep its credit cost elevated in 2020. As such, we forecast the bank's net profit to decline -5% in 2020, followed by 6% profit growth in 2021-2024, and expect ROE to decline from 12% in 2019 to 9% in 2024.

more→

Q: Is the outlook for retail banking more negative than corporate banking?

Yes, at least in the next few months. We expect consumer loan growth for the banking industry to slow to 7% YoY in 2020 from 16% in 2019, given rising unemployment pressure, weakened income growth outlook, and disruption to consumption activities. Asset quality of JSBs with higher exposure to non-mortgage consumer credit will likely be under greater pressure.

<u>more</u>→

UBS VIEW

We have a Neutral rating on Minsheng Banking. In 2020, company will start the eighth change of session of board, and so far there is little visibility on the bank's new strategy. We expect its 2020 earnings growth to remain lower than peers due to NIM contraction and elevated credit cost. Minsheng Banking-H is trading at 0.4x one-year forward P/BV, a discount to peers. We believe the undemanding valuation has largely priced in investors' concerns over weak earnings growth. But we suggest investors wait until uncertainty on new shareholder and management is removed.

EVIDENCE

MSB's NPL coverage ratio was 156% at end of 2019, well below peers, and it has a larger exposure to MSE (13% of gross loans) and private sector than peers, which are more vulnerable to economic downturn. In addition, the government calls for lowering lending rate to support real economy. This, along with a higher portion of secured MSE loans (90%), could weigh on bank's NIM.

WHAT'S PRICED IN?

Minsheng Banking-H is trading at 0.4x one-year forward P/BV, a discount to peers. We believe the undemanding valuation has largely priced in investors' concerns over weak earnings growth. But we suggest investors wait until uncertainty on new shareholder and management is removed.

<u>more</u>→

UPSIDE / DOWNSIDE SPECTRUM



<u>more</u>→

China Minsheng Banking UBS Research

PIVOTAL QUESTIONS



Q: Is uncertainty on new shareholder and management removed?

UBS VIEW

No. The board and management reshuffle has been postponed due to the COVID-19 outbreak. So far there is little visibility on how the largest shareholder Dajia Insurance will play a role in the board, or how the new strategy will play out, which will take some years to materialise. We suggest investors wait for more clarity.

FVIDENCE

The change of the eighth session of the board of directors has been delayed due to COVID-19, according to a company announcement. Dajia Insurance currently holds 17.7% stake in Minsheng. It is not clear how it plans to deal with the stake.

WHAT'S PRICED IN?

MSB-H is currently trading at 0.4x one-year forward P/BV, a significant discount to peers. This partly reflects investors' concern on the uncertainty over the bank's future strategy.

The change of session of board of directors is postponed due to COVID-19 outbreak

The bank has been through several changes in its management team, major shareholders and strategic focuses. The change of session of board of directors was officially launched in Dec-18. The bank's Nomination Committee will propose the list of candidates for directors, or shareholders with over 3% voting rights could also nominate a candidate for director. However, due to COVID-19 outbreak, the progress is slower than expected and the change of session will be postponed.

Will there be any changes to the management?

The 8th session of board will comprise 18 directors with at least 6 independent non-executive directors, and at least two directors being senior management of the bank. Key question here is will there be any changes to the management.

No restriction on the term of office: The bank made changes on the term of office for Chairman of Director and Vice Chairman of Director in its Articles of Associations in Feb 2017. Previously, the Chairman of Director and Vice Chairman of Director can serve two three-year terms. If the Board of Directors feel necessary, they could serve a third consecutive term. In Feb 2017, the bank removed the restriction on the term of office.

Figure 80: Summary of Chairman and President turnover at Minsheng Banking

	Chairman of Board	President
2000-2006	Jing, Shuping	Dong, Wenbiao
2006-2009	Dong, Wenbiao	Wang, Tongshi
2009-2014	Dong, Wenbiao	Hong, Qi
2014-2019	Hong Oi	Mao, Xiaofeng (being investigated);
2014-2019	Hong, Qi	Zheng, Wanchun
2020-	TBD	TBD

Source: Company data

Shareholding structure of Minsheng Banking

Right now Dajia Life Insurance is the largest shareholder of Minsheng Banking and holds 17.7% stake. Dajia Insurance will likely appoint one or two directors in the board of Minsheng Banking this time. Other shareholders with over 3% voting rights could also nominate a candidate for director.

Figure 81: Minsheng Banking shareholding structure

rigare or: Willisherig Banking Shareholding	tractare
Dajia Life Insurance	17.7%
China Oceanwide	4.6%
Tongfang Guoxin	4.3%
New Hope	4.2%
Shanghai Giant Lifetech	3.2%
Huaxia Life Insurance	3.1%
China Shipowners Mutual Assurance Association	3.0%
Orient Group	2.9%

Source: Company data

Overview of the largest shareholder - Dajia Insurance

Dajia Insurance was established in July 2019 and held Rmb700bn good assets (including Anbang life insurance, Anbang Pension, Anbang asset management and Anbang Auto insurance) transferred from Anbang insurance which was taken over by CBIRC in Feb 2018.

Figure 82: timeline of Anbang being taken over and the establishment of Dajia

Feb-18	Anbang insurance was taken over by CBIRC for one year
Apr-18	Insurance Protection Fund injected Rmb61bn to Anbang insurance
	Three new shareholders were Insurance Protection Fund (98.2%), Sinopec (0.6%), and SAIC (1.2%)
Feb-19	The takeover was extended for one year
Mar-19	Restructuring plan was approved
Jul-19	Dajia Insurance was established to hold Rmb700bn assets from Anbang
	Shareholding structure remained the same
Feb-20	CBIRC completed the takeover
Next 3-6	Strategic investors will be introduced, and expected new shareholding structure for Dajia will be -
month	Insurance Protection Fund (33%), foreign capital (22%), state-owned capital (22%), private capital (22%)
Source: UBS	

I. The spin-off and restructure of Anbang insurance

After Anbang insurance was taken over by CBIRC on Feb 23, 2018, insurance protection fund injected Rmb61bn fund into Anbang for spin-off and restructure, and major shareholders were cut to **Insurance protection fund (98.2%), SAIC (Shanghai Auto Industry Corp, 1.2%), and Sinopec (0.6%)**. To restructure, total assets of Anbang insurance was split into two parts – the first part of assets including short-term problematic liabilities and the majority of Anbang P&C insurance was ~Rmb510bn, and will be wound down after clean-up; the second part including Anbang life insurance, Anbang Pension, Anbang asset management

and Anbang Auto insurance was ~Rmb700bn and has been transferred to the newly-formed entity Dajia Insurance, which was established in July 2019 with the same three shareholders as Anbang Insurance. On Feb 2020, CBIRC and Dajia Insurance announced that the takeover has come to an end.

Figure 83: Spin-off and restructure of Anbang Insurance

	Anban	g Insurance				
Short-term liabilities and the majority of Anbang P&C	Anbang Life Insurance	Anbang Auto Insurance	Anbang Pension	Anbang asset management		
Rmb510bn To wind down after cleanup	Rmb700bn Dajia Insurance					

Source: Caixin, UBS

II. Dajia Insurance will likely maintain private-owned status after introduction of strategic investors

Dajia Insurance plans to introduce strategic investors and will likely let social capital hold two-thirds of its shares to maintain its private-owned status. That said, under the new shareholding structure, Insurance Protection Fund will likely hold one-third of stakes (vs 98% now), and the rest will be equally divided between foreign capital, private capital, and state-owned capital. According to Caixin, Dajia Insurance is recently valued at Rmb60bn, implying 2x book value, and it has secured several investors with the whole process to be completed in the next three to six months.

III. What are the other stakes held by Dajia Life Insurance?

As part of the restructuring plan, Dajia Insurance has sold stakes in CMB, and is in the process of selling stakes in Chengdu rural commercial bank and Zheshang bank. At end of Sept 2019, Dajia Life Insurance still hold over 5% stake in eight companies as listed below.

Figure 84: By Sept 2019, Dajia Life Insurance holds over 5% stake

Sino Ocean Group	30%
Jindi	20%
Minsheng Bank	18%
Tong Ren Tang	15%
Dashang Group	15%
Changchun Ouya	15%
Financial Street	14%
China Construction	9%

Source: Caixin

Signposts to watch for: the nomination of new board member and senior management, the date of general meeting to approve the nomination, and potential analyst briefing which will be attended by new management to elaborate more on future strategy.

China Minsheng Banking UBS Research

PIVOTAL QUESTIONS <u>return</u> ↑

Q: Can Minsheng Banking's strategy on MSE and private company improve its ROE/ROA?

UBS VIEW

Not in the near-term. We expect that the bank may not improve its ROE/ROA in the near term, as 1) decline in loan yield, especially for MSE loans, and limited deposit contribution from MSEs would weigh on the bank's NIM, and 2) MSEs and private companies are more vulnerable to economic downturns, and the bank's higher exposure to MSEs and private companies may put more pressure on the bank's asset quality, which could keep its credit cost elevated in 2020. As such, we forecast the bank's net profit to decline -5% in 2020, followed by 6% profit growth in 2021-2024, and expect ROE to decline from 12% in 2019 to 9% in 2024

EVIDENCE

MSE loan yield has declined from over 8% previously to 6.7% currently, partly due to a higher portion of secured MSE loans (90%).

Minsheng Bank's deposit franchise is weak, as evidenced that 1) demand deposit accounted for only 39% in 2019, down from 46% at end of 2017 and lower than 43% of JSB average; 2) Total deposit cost was also relatively high at 2.4% in 2019, vs 2.08% at CITIC bank.

The bank's NPL coverage is well below peer at only 156% at end of 2019, well below joint stock bank coverage. The bank's exposure to MSE loan (13% of gross loans) is much higher than other joint stock bank

WHAT'S PRICED IN?

MSB-H is currently trading at 0.4x one-year forward P/BV, at a significant discount to peers. This partly reflects its weaker-than-peer profitability.

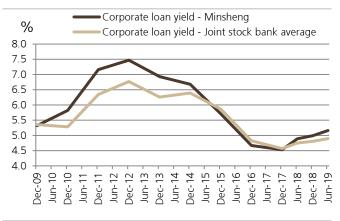
Minsheng Banking is the first private-owned national bank in China, and it focuses on serving private sector and MSEs. While loans to MSE and private sector have a relatively high margin, limited deposit contribution from MSE weighed on the bank's NIM, and the bank faces more pressure on asset quality given vulnerability of MSE and private sector to economic downturn.

1. Can Minsheng Bank's NIM outperform peers in 2020?

Over 2009-14 NIM better than JSB average supported by high loan yield: During 2009-2014, Minsheng Bank's focus on loans to MSEs and private sector generated very high loan yield and asset yield. These two client segments contributed the majority of loan book. At end of 2013, POE borrowers contributed 87% and 65% of total corporate clients and gross loan balance, while MSE loans accounted for 26% of gross loan balance. Though Minsheng Bank's deposit franchise was weak, high asset yield more than offsetting funding cost resulted in better NIM than joint-stock average. However, a high risk appetite and aggressive lending growth also came at the cost of asset quality deterioration amid macro slowdown which we will discuss below.

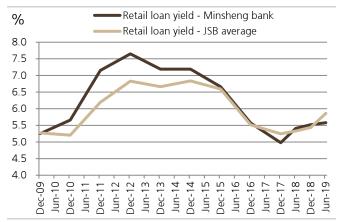
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Figure 85: Corp loan yield (Minsheng vs JSB average)



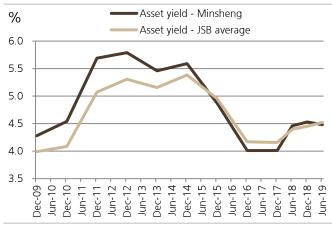
Source: Company data

Figure 86: Retail loan yield (Minsheng vs JSB average)



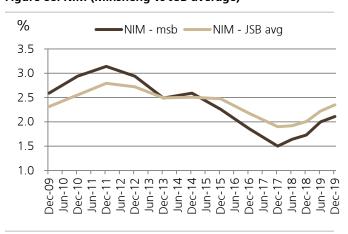
Source: Company data

Figure 87: Asset yield (Minsheng vs JSB average)



Source: Company data

Figure 88: NIM (Minsheng vs JSB average)



Source: Company data

However, we expect the bank's NIM to underperform peers in 2020, due to the following reasons.

I. MSE loan yield may see downward trend

- The bank's MSE strategy to have a very high level of secured MSE loans (at 90%) may see downside risk on NIM. In fact, its MSE loan yield has declined to 6.7% currently from over 8% previously partly due to a higher portion of secured loans.
- Given the business difficulty, the government has called for lowering financing cost to MSEs in 2020. Given the bank's larger loan exposure to MSE loans (13% of gross loan book) than other joint stock banks, we estimate every 50bp decline in MSE loan yield could lead to 3-4bp decline in NIM, all else being equal.

II. Weak deposit franchise and relatively low CET-1 ratio may not support LDR increase

1) Limited deposit contribution from MSE/private sector

One weakness to serve MSE and private sector is the limited deposit contribution from these clients. Large corporate customers are an important source of low-cost

deposits for banks, especially demand deposits maintained at banks for transactional purposes. However, due to their small size and funding constraints, small firms are typically unable to contribute to the low-cost deposit base of banks.

As such, Minsheng Bank's deposit franchise is weak, as evidenced that: 1) Deposits accounted for 59% of total liability at end of 2019, lower than 64% of JSB average; 2) Demand deposit accounted for only 39%, down from 46% at end of 2017 and lower than 43% of JSB average; 3) Total deposit cost was also relatively high at 2.4% in 2019, vs 2.08% at CITIC bank. Time deposit cost for corporate and retail deposits was 3.3% and 3.1% in 2019, respectively, as compared to 3 % and 3.3% at CITIC bank.

After the relaxation of LDR cap, the bank's LDR increased notably from 75% to 97% at end of 2019, suggesting limited room to further increase LDR.

2) Below-peer CET-1 ratio: The bank's CET-1 ratio was 8.9% at end of 2019, higher than 7.5% regulatory requirement but lower than JSB average.

2. Can Minsheng Bank's credit cost decline in 2020?

No. We expect the bank's credit cost to remain elevated % in 2020, as 1) the bank's NPL coverage is well below peer at only 156% in 2019, and it needs to book more provisioning to catch up with peers, and 2) the bank's exposure to MSE loan (13% of gross loans)) is much higher than other joint stock banks, which may see more pressure on asset quality amid COVID-19 outbreak. We would turn more positive if the bank could show better-than-expected asset quality under its new MSE business model.

Figure 89: NPL coverage ratio

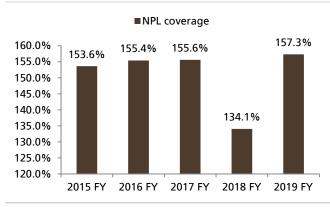
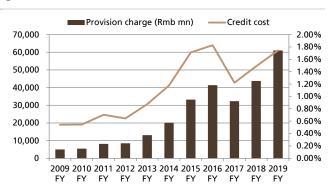


Figure 90: Credit cost



Source: Company data Source: Company data

Overview of Minsheng Bank's MSE lending

I. Aggressive MSE lending over 2009-2013

Minsheng Banking was the first bank to start large-scale MSE lending as early as 2009. The old business model revolves around key commerce which would refer MSEs to banks and these MSEs would then provide guarantee for each other to get credit lines from banks. The advantage of this model is that 1) MSEs could get a higher credit line via mutual guarantee than it could get on its own; and 2) the bank could acquire a large number of MSEs and ramp up loan balance within a short period time, as it seems that loan scale is the only KPIs for loan officers. As a

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result, MSE loans grew exponentially over 2009-2013, from only Rmb45bn at end of 2009 to over Rmb400bn at end of 2013, while at the same time, NPL ratio remained low at below 0.5% at end of 2013.

As the bank posted above-average earnings during 2009-2012, MSB-H traded at a premium over other JSBs during Aug-11 and Q414, with its one-year forward P/BV peak at 1.6x in Q113.

Figure 91: Minsheng redeveloped its MSE lending since the beginning of 2017

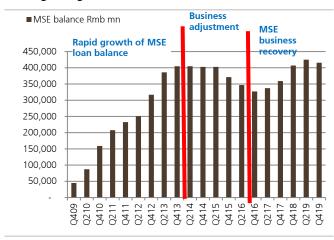
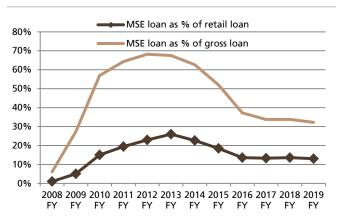


Figure 92: MSE loans contributed ~70% of retail loans as of Q213 but now only accounted for 30%+



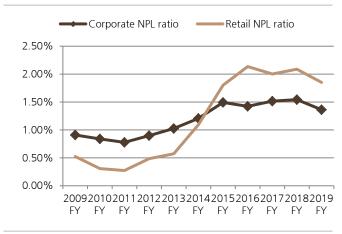
Source: Company data

Source: Company data

II. Asset quality deteriorated since 2014 amid economic downturn

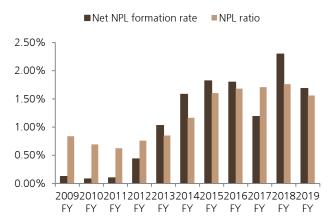
However, the rapid expansion came at the cost of higher NPLs starting from mid-2013. Amid the economic downturn, the bank saw muted growth in MSE loans in 2014 and scaled down its MSE loan balance in 2015-16. The bank's retail NPL ratio quickly increased to over 1% at end of 2014, almost doubling that a year ago. Caixin reported that accumulative NPL ratio for MSE loans peaked at 21% in mid-2016. We believe the flip side of the old business model lies in that the mutual guarantee between MSEs weakened the bank's KYC, which was easily subject to moral hazard, and created high concentration risks.

Figure 93: Retail NPL ratio increased sharply since 2014



Source: Company data

Figure 94: Net NPL formation rate increased to 1.6-1.8% over 2014-16



Source: Company data, UBS

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III. Resumed MSE lending since 2017

After disposing the legacy bad MSE loans in 2015 and 2016, Minsheng resumed MSE loan growth from the beginning of 2017. MSE loan balance increased to Rmb455bn at end of 2019, up by 36% from end-2016. But its share of retail loans and gross loans declined from 70% and 26% at end of 2013 to 32% and 13% at end of 2019.

Minsheng Banking has made changes to its old business model. Under the new business model,

- Higher portion of loans with collateral: Minsheng increased the percentage of loans with collateral partly as a way to check whether MSEs borrow too much. Collateralized loans contributed 76% of MSE loans at end of 2018, up from 47% of MSE loans at end of 2013.
- KPI is linked to the number of MSE clients, not loan scale as in the last cycle
- Smaller ticket size: Take Chongqing branch for example. The average ticket size for new loans extended in 2018 was about Rmb700k in 2018, and the credit line was below Rmb1.5mn.
- Rising fee income from MSEs: the bank's fee income rose 58% YoY in the first ten month in 2018.

IV. New business model to be tested amid COVID-19 outbreak

Historical data (2016-18) shows benign asset quality on MSE loans. NPL ratio and overdue ratio for new MSE loans extended since the beginning of 2016 was 0.19% and 0.42% at end of 2018.

However, COVID-19 outbreak has and will have a significant impact on China's economy in Q1. The bank's new MSE business model will be tested this time, and we will turn more positive if its asset quality is better-than-expected.

UBS Research China Minsheng Banking

WHAT'S PRICED IN? return 1





MSB-H traded at a premium over other JSBs during Aug-11 and Q414, with its one-year forward P/BV peak at 1.6x in Q113, as the bank posted above-average earnings growth over 2009-2012 during which Minsheng focused on MSE lending and its asset quality was relatively benign.

However, against the backdrop of economic downturn as well as some credit cycles in Yangtze River delta, aggressive business expansion in MSE lending and weak risk management resulted in serious asset quality deterioration. As a result, it posted weak earnings growth of below 5% during 2014-2018, and its ROE declined from 20%+ to 13% in 2018. As such, MSB-H valuation was on a downward trend and fell to ~0.5x recently, below the average joint stock bank.

While MSB-H current valuation is undemanding, we expect there is limited upside risk due to three reasons, and hence resume coverage with Neutral.

- 1) We expect its 2020 earnings growth to remain lower than peers, due to NIM contraction and elevated credit cost given below-peer NPL coverage ratio and potential asset quality deterioration on higher exposure to MSE loans.
- 2) We suggest investors to wait for more clarity on the bank's strategy after management reshuffle this year and see how/when the strategy will materialise.

UPSIDE/DOWNSIDE SPECTRUM





Minsheng Banking-H is trading at HK\$5.65 (as of 7 April).

Risk to the current share price is skewed (1:27) to the downside

Minsheng Banking-H is trading at HK\$5.65 (as of 6 April).

Upside scenario (HK\$6.30): If economic activities resumption accelerates starting from 2Q20 underpinned by larger fiscal stimulus or rapid rebound in property activities, likely aided by supportive policies. Under such case, policy support will be released in a slower pace, and asset quality could recover in a faster pace. As such, we expect bank's NIM at 2.08%, credit cost lower at 1.80%, and PT at HK\$6.30.

Base case (HK\$5.60): We assume 1.5%/7.5% GDP growth (4.5% CAGR) in 2020/2021, and 33%/24% of covid-related NPL formation will be formed in 2020/2021E. In such case, quarterly GDP will see -5.0% YoY/+1.5% YoY in 1Q20-2Q20. This would translate to 3.0%/2.8% NPL formation in 2020/2021 across banking sector. In this scenario, we expect bank's NIM at 1.88%, credit cost at 2%, and PT at HK\$5.60.

Downside scenario (HK\$4.10): We assume GDP growth in 1Q20 fell more than our economist's estimates, and assume 2Q20 recovery is weaker due to slower resumption or sharper global recession, and thus assume GDP growth would face further downside risk. As such, we assume NPL formation would surge amid slowing economic growth and weaker demand. Under such case, we would expect further stimulus policies to be released (ie, monetary easing policies, asking banks to incrementally lower loan pricing to support the economy); and thus we would expect banks to suffer from rising pressures on NIM. As such, we would expect bank's NIM at 1.58%, credit cost higher at 2.30%, and a fair value of HK\$4.10

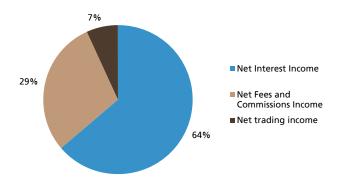
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Minsheng Banking was established in 1996, and was the first national joint-stock commercial bank in China founded by non-state-owned enterprises. Minsheng completed its A-share and H-share listings in December 2000 and November 2009, respectively. At the end of 2019, it had Rmb6.7trn total assets, Rmb3.4trn loans and Rmb3.6trn deposits. Among joint-stock banks, Minsheng has the largest portion of loans to private-owned enterprises and micro and small enterprises (MSEs).

Industry outlook

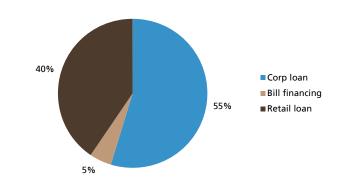
We assume 1.5%/7.5% GDP growth (4.5% CAGR) in 2020/2021, and 33%/24% of shock-related NPL formation will be formed in 2020/2021E. In such case, quarterly GDP will see -5.0% YoY/+1.5% YoY in 1Q20-2Q20. This would translate to 3.0%/2.8% NPL formation in 2020/2021 across banking sector. In this scenario, we think sector earnings would see a 5% YoY decline in average with SML ratio up to 5.6% in 2020E versus 2.9% in 2019 and NPL ratio up to 2.81% from 1.86% in 2019. Coverage ratio could decline to 126%/122% accordingly in the coming two years. NIM wise, given the asset yield pressure from LPR could not be fully offset by funding support from RRR and potential deposit benchmark rate cut, we estimate banks NIM would see mid-to-high single basis point YoY decline

Revenue breakdown (2019)



Source: Company data

EBIT by product segment (2019)



Source: Company data

China Minsheng Banking (1988.HK)

Profit & Loss (Rmb m)	12/17	12/18	12/19	12/20E	% ch	12/21E	% ch	12/22E	12/23E	12/24E
Net interest income	86,552	76,680	97,943	121,872	24.4	132,430	8.7	142,311	154,956	168,805
Total non-interest income	55,395	77,481	79,802	70,022	-12.3	75,530	7.9	81,524	88,048	95,939
Total income	141,947	154,161	177,745	191,894	8.0	207,960	8.4	223,836	243,004	264,744
Total cash expenses	(43,895)	(45,938)	(44,313)	(48,027)	-8.4	(54,605)	-13.7	(60,329)	(67,198)	(75,044)
Pre-depreciation operating profit	98,052	108,223	133,432	143,866	7.8	153,355	6.6	163,507	175,805	189,700
Depreciation & amort (excl. goodwill)	(3,350)	(3,118)	(5,703)	(5,703)	0.0	(5,703)	0.0	(5,703)	(5,703)	(5,703)
Operating profit pre provisions	94,702	105,105	127,729	138,163	8.2	147,652	6.9	157,804	170,102	183,997
Total provisions	(34,140)	(46,320)	(62,991)	(77,151)	-22.5	(82,870)	-7.4	(89,311)	(97,238)	(106,409)
Operating profit post provisions	60,562	58,785	64,738	61,013	-5.8	64,782	6.2	68,493	72,865	77,588
Income from associates & JVs (pre-tax)	0	0	0	0	-	0	-	0	0	0
Other pre-tax items	0	0	0	0	-	0	-	0	0	0
Profit before tax (UBS)	60,562	58,785	64,738	61,013	-5.8	64,782	6.2	68,493	72,865	77,588
Exceptionals (incl goodwill)	0	0	0	0	-	0	-	0	0	0
Profit before tax	60,562	58,785	64,738	61,013	-5.8	64,782	6.2	68,493	72,865	77,588
Tax	(9,640)	(8,455)	(9,814)	(9,152)	6.7	(9,717)	-6.2	(10,274)	(10,930)	(11,638)
Profit after tax	50,922	50,330	54,924	51,861	-5.6	55,065	6.2	58,219	61,935	65,950
Other post-tax items	0	0	0	0	-	0	-	0	0	0
Preference dividends	0	0	0	0	-	0	-	0	0	0
Minorities	(1,109)	(3)	(1,105)	(800)	27.6	(800)	0.0	(800)	(800)	(800)
Net earnings (local GAAP)	49,813	50,327	53,819	51,061	-5.1	54,265	6.3	57,419	61,135	65,150
Net earnings (before pref divs)	49,813	50,327	53,819	51,061	-5.1	54,265	6.3	57,419	61,135	65,150
Net earnings (UBS)	49,813	50,327	53,819	51,061	-5.1	54,265	6.3	57,419	61,135	65,150
Day shave (Dush)	12/17	43/40	12/10	42/205	0/ -b	42/245	0/ -6	42/225	43/335	42/245
Per share (Rmb)	12/17	12/18	12/19	12/20E	% ch	12/21E	% ch	12/22E	12/23E	12/24E
EPS (local GAAP, basic)	1.14	1.15	1.23	1.17	-5.1 -5.1	1.24	6.3 6.3	1.31	1.40	1.49 1.49
EPS (UBS, diluted) PPOP (diluted)	1.14 2.16	1.15 2.40	1.23 2.92	1.17 3.16	-5.1 8.2	1.24 3.37	6.9	1.31 3.60	1.40 3.89	4.20
Net DPS	0.17	0.35	0.37	0.35	-5.4	0.37	6.3	0.39	0.42	0.45
BVPS	8.43	9.37	10.25	12.61	23.0	13.50	7.1	14.44	15.44	16.51
BVPS (UBS)	8.43	9.37	10.25	12.61	23.0	13.50	7.1	14.44	15.44	16.51
5 (5 (5 5)	0.15	3.37	10.23	12.01	25.0	13.30	7.1		13.11	10.51
Balance sheet (Rmb m)	12/17	12/18	12/19	12/20E	% ch	12/21E	% ch	12/22E	12/23E	12/24E
Banking assets (year-end)	5,902,086	5,994,822	6,681,841	7,242,831	8.4	7,797,494	7.7	8,398,126	9,049,279	9,755,445
Banking assets (average)	5,898,982	5,948,454	6,338,332	6,962,336	9.8	7,520,162	8.0	8,097,810	8,723,702	9,402,362
Total assets (year-end)	5,902,086	5,994,822	6,681,841	7,242,831	8.4	7,797,494	7.7	8,398,126	9,049,279	9,755,445
Risk weighted assets (RWA) (year-end)	4,340,262	4,656,286	5,117,026	5,466,024	6.8	5,829,113	6.6	6,226,749	6,637,673	7,103,235
Risk weighted assets (RWA) (average)	4,063,168	4,498,274	4,886,656	5,291,525	8.3	5,647,568	6.7	6,027,931	6,432,211	6,870,454
Customer loans	2,729,788	3,008,272	3,430,427	3,821,928	11.4	4,128,993	8.0	4,461,196	4,810,079	5,186,049
Customer loans (average)	2,563,490	2,869,030	3,219,350	3,626,177	12.6	3,975,460	9.6	4,295,094	4,635,637	4,998,064
Interest earning assets (average)	5,754,454	5,660,586	5,832,303	6,474,243	11.0	7,029,427	8.6	7,532,318	8,075,790	8,663,718
Customer deposits	2,966,311	3,194,441	3,637,034	3,899,823	7.2	4,220,176	8.2	4,567,221	4,943,213	5,350,597
Common s/h equity (year-end)	369,078	410,183	448,985	552,139	23.0	591,086	7.1	632,226	676,135	722,944
Common s/h equity (average)	350,888 379.920	389,630	429,584	500,562 565,066	16.5 22.6	571,613 605.013	14.2 7.1	611,656	654,180	699,540
Total SHF (equity, pref & MI) (year-end)	,	421,110	460,969 441,039	,		,		647,153	692,062	739,871
Total SHF (equity, pref & MI) (average) Net tangible assets	361,027 379,920	400,515 421,110	460,969	513,018 565,066	16.3 22.6	585,040 605,013	14.0 7.1	626,083 647,153	669,607 692,062	715,967 739,871
ואבר נמווקוטופ מסספנס	3/3,320	421,110	400,509	303,000	22.0	003,013	7.1	047,133	032,002	1/0,661
Balance sheet structure (%)	12/17	12/18	12/19	12/20E	% ch	12/21E	% ch	12/22E	12/23E	12/24E
Loans / banking assets (year-end)	46.3	50.2	51.3	52.8	2.8	53.0	0.3	53.1	53.2	53.2
Deposits / banking assets (year-end)	50.3	53.3	54.4	53.8	-1.1	54.1	0.5	54.4	54.6	54.8
Loans / deposits	92.0	94.2	94.3	98.0	3.9	97.8	-0.2	97.7	97.3	96.9
Total SHF / banking assets (year-end)	6.4	7.0	6.9	7.8	13.1	7.8	-0.5	7.7	7.6	7.6
Source: Company accounts, UBS estimates, (UBS)	motrics use rope	rtod figures which	a have been adju	ctod by LIPS analy	ictc					

Source: Company accounts, UBS estimates. (UBS) metrics use reported figures which have been adjusted by UBS analysts.

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China Minsheng Banking (1988.HK)

Capital adequacy (Rmb m)	12/17	12/18	12/19	12/20E	12/21E	12/22E	12/23E	12/24E
Tier 1 capital	385,585	426,551	525,959	576,545	615,492	656,632	700,541	747,350
Total capital	514,571	547,281	673,740	729,294	771,872	816,988	865,006	916,471
Risk weighted assets (RWA) (year-end)	4,340,262	4,656,286	5,117,026	5,466,024	5,829,113	6,226,749	6,637,673	7,103,235
Core tier 1 ratio %	8.6	8.9	8.9	8.9	9.0	9.1	9.2	9.3
Tier 1 ratio %	8.9	9.2	10.3	10.5	10.6	10.5	10.6	10.5
Total capital ratio %	11.9	11.8	13.2	13.3	13.2	13.1	13.0	12.9
Tangible equity	369,078	410,183	448,985	552,139	591,086	632,226	676,135	722,944
Equity / assets %	6.3	6.8	6.7	7.6	7.6	7.5	7.5	7.4
Tangible equity to tangible assets %	6.3	6.8	6.7	7.6	7.6	7.5	7.5	7.4
Asset quality (Rmb m)	12/17	12/18	12/19	12/20E	12/21E	12/22E	12/23E	12/24E
Non-performing assets	47,889	53,866	54,434	102,634	106,620	112,898	114,529	113,009
Total risk reserves	74,519	71,216	84,647	125,540	135,805	146,896	169,427	195,329
NPLs / loans %	1.7	1.7	1.5	2.6	2.5	2.5	2.3	2.1
NPL coverage %	155.6	132.2	155.5	122.3	127.4	130.1	147.9	172.8
Provision charge / average loans %	1.3	1.5	1.9	2.1	2.0	2.0	2.0	2.1
Net NPAs / shareholders funds %	(7.0)	(4.1)	(6.6)	(4.1)	(4.8)	(5.3)	(7.9)	(11.1)
Profitability (%)	12/17	12/18	12/19	12/20E	12/21E	12/22E	12/23E	12/24E
Net interest margin (avg assets)	1.47	1.29	1.55	1.75	1.76	1.76	1.78	1.80
Provisions / operating profit	36.0	44.1	49.3	55.8	56.1	56.6	57.2	57.8
ROE (UBS earnings)	14.2	12.9	12.5	10.2	9.5	9.4	9.3	9.3
RoAdjE (UBS earnings & equity)	14.2	12.9	12.5	10.2	9.5	9.4	9.3	9.3
RoRWA (UBS)	1.25	1.12	1.12	0.98	0.98	0.97	0.96	0.96
RoA (UBS earnings)	0.86	0.85	0.87	0.74	0.73	0.72	0.71	0.70
Productivity (9/)	12/17	12/18	12/19	12/20E	12/21E	12/22E	12/23E	12/24E
Productivity (%) Cost income ratio	33.3	31.8	28.1	28.0	29.0	29.5	30.0	30.5
Cost income ratio Cost / average assets	0.80	0.82	0.79	0.77	0.80	0.82	0.84	0.86
3	21.0	19.8	17.8	17.6	18.3	18.7	19.1	19.4
Compensation expense ratio	21.0	19.0	17.0	17.0	10.5	10.7	19.1	19.4
Growth (%)	12/17	12/18	12/19	12/20E	12/21E	12/22E	12/23E	12/24E
Revenue	-6.0	8.6	15.3	8.0	8.4	7.6	8.6	8.9
Operating profit pre provisions	-6.8	11.0	21.5	8.2	6.9	6.9	7.8	8.2
Net earnings (UBS)	4.1	1.0	6.9	-5.1	6.3	5.8	6.5	6.6
Net DPS	-25.0	97.1	7.2	-5.4	6.3	5.8	6.5	6.6
Total assets (year-end)	0.1	1.6	11.5	8.4	7.7	7.7	7.8	7.8
Customer loans	13.9	10.2	14.0	11.4	8.0	8.0	7.8	7.8
Customer deposits	-3.8	7.7	13.9	7.2	8.2	8.2	8.2	8.2
Value (x)	12/17	12/18	12/19	12/20E	12/21E	12/22E	12/23E	12/24E
Market cap/revenues	1.7	1.5	1.2	1.2	1.1	1.0	0.9	0.8
Market cap/deposits	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
P/PPOP (diluted)	2.7	2.1	1.7	1.6	1.5	1.4	1.3	1.2
P/E (local GAAP, basic)	5.1	4.4	4.0	4.4	4.1	3.9	3.7	3.4
P/E (UBS, diluted)	5.1	4.4	4.0	4.4	4.1	3.9	3.7	3.4
Net dividend yield %	3.0	6.7	7.5	6.8	7.3	7.7	8.2	8.7
P/BV x	0.7	0.5	0.5	0.4	0.4	0.4	0.3	0.3
P/BV (UBS) x	0.7	0.5	0.5	0.4	0.4	0.4	0.3	0.3
Source: Company accounts LIBS estimates (LIBS) metric								

Source: Company accounts, UBS estimates. (UBS) metrics use reported figures which have been adjusted by UBS analysts.

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UBS Research THESIS MAP a guide to our thinking and what's where in this report

PIVOTAL QUESTIONS

Q: Is uncertainty on new shareholder and management removed?

No. The board and management reshuffle has been postponed due to the COVID-19 outbreak. So far there is little visibility on how the largest shareholder Dajia Insurance will play a role in the board, or how the new strategy will play out, which will take some years to materialise. We suggest investors wait for more clarity.

Q: Can Minsheng Bank's strategy on MSE and private company improve its ROE/ROA?

Not in the near term. We expect that the bank may not improve its ROE/ROA in the near to medium term, as 1) decline in loan yield, especially for MSE loans, and limited deposit contribution from MSEs could weigh on the bank's NIM, and 2) the bank's higher exposure to MSEs and private companies may put more pressure on the bank's asset quality, which could keep its credit cost elevated in 2020. As such, we forecast the bank's net profit to decline -5% in 2020, followed by 6% profit growth in 2021-2024, and expect ROE to decline from 12% in 2019 to 9% in 2024.

Q: Is the outlook for retail banking more negative than corporate banking?

Yes, at least in the next few months. We expect consumer loan growth for the banking industry to slow to 7% YoY in 2020 from 16% in 2019, given rising unemployment pressure, weakened income growth outlook, and disruption to consumption activities. Asset quality of JSBs with higher exposure to non-mortgage consumer credit will likely be under greater pressure.

UBS VIEW

We have a Neutral rating. In 2020, Minsheng Banking will start the eighth change of session of the board, and so far there is little visibility on the bank's new strategy. We expect its 2020 earnings growth to remain lower than peers due to NIM contraction and elevated credit cost. Minsheng Banking-A is trading at 0.44x one-year forward P/BV, a discount to peers. We believe the undemanding valuation has largely priced in investors' concerns over weak earnings growth. But we suggest investors wait until uncertainty on new shareholder and management is removed.

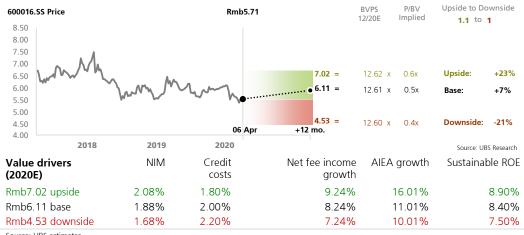
EVIDENCE

NPL coverage ratio was 156% at end of 2019, well below peers, and the bank has larger exposure to MSE (13% of gross loans) and private sector than peers, which are more vulnerable to economic downturn. In addition, the government calls for lowering lending rate to support the real economy. This, along with a higher portion of secured MSE loans (90%), could weigh on the bank's NIM.

WHAT'S PRICED IN?

Minsheng Banking-A is trading at 0.44x one-year forward P/BV, a discount to peers. We believe the undemanding valuation has largely priced in investors' concerns over weak earnings growth. But we suggest investors wait until uncertainty on new shareholder and management is removed.

UPSIDE / DOWNSIDE SPECTRUM



Source: UBS estimates

Valuation Method and Risk Statement

We derive our price targets for H-share China banks based on a three-stage dividend discount model (DDM). We also adopt a DDM methodology to derive our price targets for A-share banks.

We think the major risks for China banks are: 1) deterioration in asset quality, underpinned by a slower macro environment and domestic property market activity; 2) regulatory risks related to capital, liquidity and off-balance-sheet activities of banks; 3) deterioration in funding structure and balance-sheet liquidity positions, driven by a potential roll-over of loans and a lengthening of asset duration; and 4) liberalisation of interest rates in the medium term and the consequent pressure on bank profitability.

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Buy	FSR is > 6% above the MRA.	48%	32%
Neutral	FSR is between -6% and 6% of the MRA.	40%	28%
Sell	FSR is > 6% below the MRA.	13%	20%
Short-Term Rating	Definition	Coverage ³	IB Services ⁴
Buy	Stock price expected to rise within three months from the time the rating was assigned because of a specific catalyst or event.	<1%	<1%
Sell	Stock price expected to fall within three months from the time the rating was assigned because of a specific catalyst or event.	<1%	<1%

Source: UBS. Rating allocations are as of 31 March 2020.

- 1:Percentage of companies under coverage globally within the 12-month rating category.
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Agricultural Bank of China ^{7, 18}	1288.HK	Neutral	N/A	HK\$3.12	07 Apr 2020
Agricultural Bank of China - A ^{7, 18}	601288.SS	Neutral	N/A	Rmb3.42	07 Apr 2020
Bank of China ^{2, 4, 5, 6a, 6b, 7, 16, 18, 22}	3988.HK	Buy	N/A	HK\$3.01	07 Apr 2020
Bank of China (Group) - A 2, 4, 5, 6a, 6b, 7, 16, 18, 22	601988.SS	Buy	N/A	Rmb3.51	07 Apr 2020
Bank of Communications ^{5, 7, 18}	3328.HK	Neutral	N/A	HK\$4.85	07 Apr 2020
China CITIC Bank ^{2, 4, 7, 18, 22}	0998.HK	Neutral	N/A	HK\$3.82	07 Apr 2020
China CITIC Bank - A ^{2, 4, 7, 18, 22}	601998.SS	Neutral	N/A	Rmb5.18	07 Apr 2020
China Construction Bank ^{4, 7, 16, 18}	0939.HK	Buy	N/A	HK\$6.30	07 Apr 2020
China Construction Bank - A ^{4, 7, 16, 18}	601939.SS	Buy	N/A	Rmb6.42	07 Apr 2020
China Merchants Bank ^{7, 16, 18}	3968.HK	Neutral	N/A H	HK\$35.00	07 Apr 2020
China Merchants Bank - A ^{7, 16, 18}	600036.SS	Buy	N/AR	mb32.52	07 Apr 2020
China Minsheng Banking ^{2, 4, 7, 13, 18, 22}	1988.HK	Suspended	N/A	HK\$5.70	07 Apr 2020
China Minsheng Banking - A ^{2, 4, 7, 13, 18, 22}	600016.SS	Suspended	N/A	Rmb5.78	07 Apr 2020
Chongqing Rural Commercial Bank ¹⁸	3618.HK	Neutral	N/A	HK\$3.14	07 Apr 2020
Huishang Bank ⁴	3698.HK	Sell	N/A	HK\$2.90	07 Apr 2020
Industrial & Commercial Bank of China ^{2, 4, 6a, 6b, 7, 12, 18} 18, 22	^{5,} 1398.HK	Buy	N/A	HK\$5.27	07 Apr 2020
Industrial & Commercial Bank of China A ^{2, 4, 6a, 6b, 7, 1, 16, 18, 22}	^{2,} 601398.SS	Buy	N/A	Rmb5.16	07 Apr 2020
Ping An Bank ^{7, 22}	000001.SZ	Buy	N/AR	mb12.88	07 Apr 2020
Postal Savings Bank of China ^{2, 4, 7, 22}	1658.HK	Buy	N/A	HK\$4.71	07 Apr 2020

Source: UBS. All prices as of local market close.

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