

Banking Disclosure Statement

31 December 2020

(Unaudited)

BANKING DISCLOSURE STATEMENT (unaudited)

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Prefixes contained in the table names, where applicable, represent the reference codes of the standard disclosure templates and tables issued by the HKMA. Where applicable, RWA in tables 1, 6, 7, 13 and 14 are applied with 1.06 scaling factor, while RWA in other tables are before such application.

Introduction

Purpose

The information contained in this document is for Hang Seng Bank Limited ('the Bank') and its subsidiaries (together 'the Group'). It should be read in conjunction with the Group's 2020 Annual Report. The Group's Annual Report and the Banking Disclosure Statement, taken together, comply with both the Banking (Disclosure) Rules ('BDR') made under section 60A of the Banking Ordinance and the Financial Institutions (Resolution) (Loss-absorbing Capacity Requirements - Banking Sector) Rules ('LAC Rules') made under section 19(1) of the Financial Institutions (Resolution) Ordinance ('FIRO').

These banking disclosures are governed by the Group's disclosure policy, which has been approved by the Board. The disclosure policy sets out the governance, control and assurance requirements for publication of the document. While the Banking Disclosure Statement is not required to be externally audited, the document has been subject to independent review in accordance with the Group's policies on disclosure and its financial reporting and governance processes.

Basis of preparation

Except where indicated otherwise, the financial information contained in this Banking Disclosure Statement has been prepared on a consolidated basis. The basis of consolidation for regulatory purposes is different from that for accounting purposes. Information regarding subsidiaries that are not included in the consolidation for regulatory purposes is set out in the 'Basis of consolidation' section in this document.

The information in this document is not audited and does not constitute statutory accounts.

Certain financial information in this document is extracted from the statutory accounts for the year ended 31 December 2020 which will be delivered to the Registrar of Companies and the Hong Kong Monetary Authority ('HKMA'). The Auditors expressed an unqualified opinion on those statutory accounts in their report dated 23 February 2021. The Auditor's Report did not include a reference to any matters to which the auditor drew any attention by way of emphasis without qualifying their report; and did not contain a statement under sections 406(2), 407(2) or (3) of the Hong Kong Companies Ordinance (Cap.622). The Group's 2020 Annual Report, which include the statutory accounts, can be viewed on our website, www.hangseng.com.

The Banking Disclosure Statement

The Group's Banking Disclosure Statement at 31 December 2020 comprises information required under the framework of the Basel Committee on Banking Supervision ('BCBS'). The disclosures are made in accordance with the latest BDR and the LAC Rules issued by the HKMA.

According to the BDR and the LAC Rules, disclosure of comparative information is not required unless otherwise specified in the standard disclosure templates. Prior period disclosures can be found in the Regulatory Disclosures section of our website, www.hangseng.com.

The Banking Disclosure Statement includes the majority of the information required under the BDR and the LAC Rules. The remainder of the disclosure requirements are covered in the Group's 2020 Annual Report which can be found in the Investor Relations – Financial Statements section of our website, www.hangseng.com.

Disclosure requirements covered in the Group's 2020 Annual Report:	Reference in Annual Report	Reference in Annual Report
	(Printed version)	(Text version)
- BDR Section 16FJ - LIQA : Liquidity risk management	Pages 89 to 93 and note 21 on	Pages 73 to 76 and note 21 on
	pages 202 to 204	pages 206 to 207
- BDR Section 16J - The Group's definition of 'Impaired' and 'Renegotiated'	Note 2(j) on pages 182 to 186	Note 2(j) on pages 183 to 187
and the methods adopted for determining impairments		
- BDR Sections 16ZS, 16ZT, 16ZU, 16ZV - Remuneration	Pages 129 to 130, 132 to 133	Pages 115 to 116, 119 to 121
- BDR Section 44 - Assets used as security	Note 29 on page 209	Note 29 on page 212 to 213
- BDR Section 46 - The general disclosure of the major business activities	Note 4 on page 192 and note 20	Note 4 on page 195 to 196 and
and product lines	on pages 199 to 202	note 20 on pages 202 to 205
- BDR Section 52 - Corporate governance	Pages 120 to 147	Pages 102 to 137

Loss-absorbing capacity disclosures

The basis of calculating the Group's loss-absorbing capacitry ('LAC') and risk-weighted asset ('RWA') is in accordance with the LAC Rules. The disclosures are made in accordance with the standard disclosure templates as issued by the HKMA.

Table 1: KM1 – Key prudential ratios

Regulatory capital (HKSm)								
Post				a	b	c	d	e
Four-life Four			-			At		
Regulatory capital (HK\$m)				31 Dec	30 Sep	30 Jun	31 Mar	31 Dec
Common Equity Tier 1 (*CET1*)		Footno	tes	2020	2020	2020	2020	2019
Tier I 130,353 126,211 124,052 119,462 123,304 3 70tal capital 141,070 137,386 135,376 133,084 137,249 1 141,070 137,386 135,376 133,084 137,249 1 170tal RWA 705,528 706,871 687,404 679,616 658,856		Regulatory capital (HK\$m)	1					
Total capital 141,070	1	Common Equity Tier 1 ('CET1')		118,609	114,467	112,308	107,718	111,560
Risk-weighted asset ('RWA') (HK\$m)	2	Tier 1		130,353	126,211	124,052	119,462	123,304
Total RWA Total RWA Fisk-based regulatory capital ratios (as a percentage of RWA) T	3	Total capital		141,070	137,386	135,376	133,084	137,249
Risk-based regulatory capital ratios (as a percentage of RWA)		Risk-weighted asset ('RWA') (HK\$m)	1					
Total capital ratio (%) 16.8 16.2 16.3 15.8 16.9 Total capital ratio (%) 18.5 17.9 18.0 17.6 18.7 Total capital ratio (%) 18.5 17.9 18.0 17.6 18.7 Additional CET1 buffer requirements (as a percentage of RWA) 7	4	Total RWA		705,528	706,871	687,404	679,616	658,856
Time 1 ratio (%) 18.5 17.9 18.0 17.6 18.7 17.0 17		Risk-based regulatory capital ratios (as a percentage of RWA)	1					
Total capital ratio (%)	5	CET1 ratio (%)		16.8	16.2	16.3	15.8	16.9
Additional CET1 buffer requirements (as a percentage of RWA) 1	6	Tier 1 ratio (%)		18.5	17.9	18.0	17.6	18.7
8 Capital conservation buffer requirement (%) 2.500 2.500 2.500 2.500 9 Countercyclical capital buffer ('CCyB') requirement (%) 2 0.829 0.836 0.830 0.835 1.645 10 Higher loss absorbency requirements (%) (applicable only to Global systemically important authorised institutions ('G-SIBs') or Domestic systemically important authorised institutions ('D-SIBs')) 3 1.000 1.000 1.000 1.000 1.500 11 Total AI-specific CET1 buffer requirements (%) 4.329 4.336 4.330 4.335 5.645 12 CET1 available after meeting the AI's minimum capital requirements (%) 4 11.00 11.4 11.7 11.3 12.4 Basel III leverage ratio ('LR') exposure measure (HK\$m) 1,641,358 1,647,574 1,632,393 1,577,686 1,572,114 14 LR (%) 7.7 7.6 7.6 7.8 7.8 15 Total high quality liquid assets ('HQLA') (HK\$m) 401,898 373,182 333,086 314,106 324,034 16 Total net cash outflows (HK\$m) 194,202 187,369<	7	Total capital ratio (%)		20.0	19.4	19.7	19.6	20.8
9 Countercyclical capital buffer ('CCyB') requirement (%) 2 0.829 0.836 0.830 0.835 1.645 10 Higher loss absorbency requirements (%) (applicable only to Global systemically important authorised institutions ('G-SIBs') or Domestic systemically important authorised institutions ('D-SIBs')) 3 1.000 1.000 1.000 1.000 1.000 1.000 1.500 11 Total AI-specific CET1 buffer requirements (%) 4.329 4.336 4.330 4.335 5.645 12 CET1 available after meeting the AI's minimum capital requirements (%) 4 11.00 11.4 11.7 11.3 12.4 Basel III leverage ratio 4 4 1.641,358 1,647,574 1,632,393 1,577,686 1,572,114 14 LR (%) 7.9 7.7 7.6 7.6 7.6 7.8 Liquidity Coverage Ratio ('LCR') 5 5 1 1 1,164,358 373,182 333,086 314,106 324,034 16 Total net cash outflows (HK\$m) 401,898 373,182 333,086 314,106 324,034<			1					
Higher loss absorbency requirements (%) (applicable only to Global systemically important authorised institutions ('G-SIBs') or Domestic systemically important authorised institutions ('D-SIBs')) 3 1.000 1.000 1.000 1.000 1.500 Total AI-specific CET1 buffer requirements (%) 4.329 4.336 4.330 4.335 5.645 CET1 available after meeting the AI's minimum capital requirements (%) 12.0 11.4 11.7 11.3 12.4 Basel III leverage ratio (*LR') exposure measure (*HK\$m) 1,641,358 1,647,574 1,632,393 1,577,686 1,572,114 LR (%) 7.9 7.7 7.6 7.6 7.8 Liquidity Coverage Ratio (*LCR') 5 Total high quality liquid assets (*HQLA') (*HK\$m) 401,898 373,182 333,086 314,106 324,034 Total net cash outflows (*HK\$m) 194,202 187,369 168,382 173,303 161,484 LCR (%) 207.8 199.4 198.0 181.6 201.8 Net Stable Funding Ratio (*NSFR') 6 Total available stable funding (*HK\$m) 1,165,359 1,144,760 1,159,538 1,126,874 1,137,453 Total required stable funding (*HK\$m) 762,106 767,213 768,157 771,588 762,817 Total required stable funding (*HK\$m) 762,106 767,213 768,157 771,588 762,817 Total required stable funding (*HK\$m) 762,106 767,213 768,157 771,588 762,817 Total required stable funding (*HK\$m) 762,106 767,213 768,157 771,588 762,817 Total required stable funding (*HK\$m) 762,106 767,213 768,157 771,588 762,817 Total required stable funding (*HK\$m) 762,106 767,213 768,157 771,588 762,817 Total required stable funding (*HK\$m) 762,106 767,213 768,157 771,588 762,817 Total required stable funding (*HK\$m) 762,106 767,213 768,157 771,588 762,817 Total required stable funding (*HK\$m) 762,106 767,213 768,157 771,588 762,817 Total required stable funding (*HK\$m) 762,106 767,213 768,157 771,588 762,817 Total required stable funding (*HK\$m) 762,106 767,213 768,157 771,588 762,817	8			2.500	2.500	2.500	2.500	2.500
(applicable only to Global systemically important authorised institutions ('G-SIBs') or Domestic systemically important authorised institutions ('D-SIBs')) 3 1.000 1.000 1.000 1.000 1.500 11 Total AI-specific CET1 buffer requirements (%) 4.329 4.336 4.330 4.335 5.645 12 CET1 available after meeting the AI's minimum capital requirements (%) 12.0 11.4 11.7 11.3 12.4 Basel III leverage ratio 4 4 1.641,358 1,647,574 1,632,393 1,577,686 1,572,114 14 LR (%) 7.9 7.7 7.6 7.6 7.8 Liquidity Coverage Ratio ('LCR') 5 5 15 Total high quality liquid assets ('HQLA') (HK\$m) 401,898 373,182 333,086 314,106 324,034 16 Total net cash outflows (HK\$m) 194,202 187,369 168,382 173,303 161,484 17 LCR (%) 207.8 199.4 198.0 181.6 201.8 Net Stable Funding Ratio ('NSFR') 6 18 Total required stable funding (HK\$m) 1,165,359 1,144,760 1,159,5	9		2	0.829	0.836	0.830	0.835	1.645
(G-SIBs') or Domestic systemically important authorised institutions ('D-SIBs')) 3 1.000 1.000 1.000 1.000 1.500 11 Total AI-specific CET1 buffer requirements (%) 4.329 4.336 4.330 4.335 5.645 12 CET1 available after meeting the AI's minimum capital requirements (%) 12.0 11.4 11.7 11.3 12.4 Basel III leverage ratio 4 4 1.641,358 1,647,574 1,632,393 1,577,686 1,572,114 14 LR (%) 7.9 7.7 7.6 7.6 7.8 Liquidity Coverage Ratio ('LCR') 5 15 Total high quality liquid assets ('HQLA') (HK\$m) 401,898 373,182 333,086 314,106 324,034 16 Total net cash outflows (HK\$m) 194,202 187,369 168,382 173,303 161,484 17 LCR (%) 207.8 199.4 198.0 181.6 201.8 Net Stable Funding Ratio ('NSFR') 6 18 Total required stable funding (HK\$m) 1,165,359 1,144,760 1,159,538 1,126,874 1,137,453 19 <td>10</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	10							
SIBs')) 3 1.000 1		(applicable only to Global systemically important authorised institutions						
11 Total AI-specific CET1 buffer requirements (%) 4.329 4.336 4.330 4.335 5.645 12 CET1 available after meeting the AI's minimum capital requirements (%) 12.0 11.4 11.7 11.3 12.4 Basel III leverage ratio 13 Total leverage ratio ('LR') exposure measure (HK\$m) 1,641,358 1,647,574 1,632,393 1,577,686 1,572,114 14 LR (%) 7.9 7.7 7.6 7.6 7.8 Liquidity Coverage Ratio ('LCR') 5 15 Total high quality liquid assets ('HQLA') (HK\$m) 401,898 373,182 333,086 314,106 324,034 16 Total net cash outflows (HK\$m) 194,202 187,369 168,382 173,303 161,484 17 LCR (%) 207.8 199.4 198.0 181.6 201.8 Net Stable Funding Ratio ('NSFR') 6 18 Total available stable funding (HK\$m) 1,165,359 1,144,760 1,159,538 1,126,874 1,137,453 19 Total required stable funding (HK\$m) 762,106 767,213 768,157 771,588 762,817		('G-SIBs') or Domestic systemically important authorised institutions ('D-						
Basel III leverage ratio 4 13 Total leverage ratio ('LR') exposure measure (HK\$m) 1,641,358 1,647,574 1,632,393 1,577,686 1,572,114 14 LR (%) 7.9 7.7 7.6 7.6 7.8 Liquidity Coverage Ratio ('LCR') 5 373,182 333,086 314,106 324,034 15 Total high quality liquid assets ('HQLA') (HK\$m) 401,898 373,182 333,086 314,106 324,034 16 Total net cash outflows (HK\$m) 194,202 187,369 168,382 173,303 161,484 17 LCR (%) 207.8 199.4 198.0 181.6 201.8 Net Stable Funding Ratio ('NSFR') 6 18 Total available stable funding (HK\$m) 1,165,359 1,144,760 1,159,538 1,126,874 1,137,453 19 Total required stable funding (HK\$m) 762,106 767,213 768,157 771,588 762,817		**	3	1.000	1.000	1.000	1.000	1.500
Basel III leverage ratio 4 13 Total leverage ratio ('LR') exposure measure (HK\$m) 1,641,358 1,647,574 1,632,393 1,577,686 1,572,114 14 LR (%) 7.9 7.7 7.6 7.6 7.8 Liquidity Coverage Ratio ('LCR') 5 15 Total high quality liquid assets ('HQLA') (HK\$m) 401,898 373,182 333,086 314,106 324,034 16 Total net cash outflows (HK\$m) 194,202 187,369 168,382 173,303 161,484 17 LCR (%) 207.8 199.4 198.0 181.6 201.8 Net Stable Funding Ratio ('NSFR') 6 18 Total available stable funding (HK\$m) 1,165,359 1,144,760 1,159,538 1,126,874 1,137,453 19 Total required stable funding (HK\$m) 762,106 767,213 768,157 771,588 762,817	11	Total AI-specific CET1 buffer requirements (%)		4.329	4.336	4.330	4.335	5.645
13 Total leverage ratio ('LR') exposure measure (HK\$m) 1,641,358 1,647,574 1,632,393 1,577,686 1,572,114 14 LR (%) 7.9 7.7 7.6 7.6 7.8 Liquidity Coverage Ratio ('LCR') 5 15 Total high quality liquid assets ('HQLA') (HK\$m) 401,898 373,182 333,086 314,106 324,034 16 Total net cash outflows (HK\$m) 194,202 187,369 168,382 173,303 161,484 17 LCR (%) 207.8 199.4 198.0 181.6 201.8 Net Stable Funding Ratio ('NSFR') 6 18 Total available stable funding (HK\$m) 1,165,359 1,144,760 1,159,538 1,126,874 1,137,453 19 Total required stable funding (HK\$m) 762,106 767,213 768,157 771,588 762,817	12	CET1 available after meeting the AI's minimum capital requirements (%)		12.0	11.4	11.7	11.3	12.4
14 LR (%) 7.9 7.7 7.6 7.6 7.8 Liquidity Coverage Ratio ('LCR') 5 5 15 Total high quality liquid assets ('HQLA') (HK\$m) 401,898 373,182 333,086 314,106 324,034 16 Total net cash outflows (HK\$m) 194,202 187,369 168,382 173,303 161,484 17 LCR (%) 207.8 199.4 198.0 181.6 201.8 Net Stable Funding Ratio ('NSFR') 6 18 Total available stable funding (HK\$m) 1,165,359 1,144,760 1,159,538 1,126,874 1,137,453 19 Total required stable funding (HK\$m) 762,106 767,213 768,157 771,588 762,817		Basel III leverage ratio	4					
Liquidity Coverage Ratio ('LCR') 5 15 Total high quality liquid assets ('HQLA') (HK\$m) 401,898 373,182 333,086 314,106 324,034 16 Total net cash outflows (HK\$m) 194,202 187,369 168,382 173,303 161,484 17 LCR (%) 207.8 199.4 198.0 181.6 201.8 Net Stable Funding Ratio ('NSFR') 6 18 Total available stable funding (HK\$m) 1,165,359 1,144,760 1,159,538 1,126,874 1,137,453 19 Total required stable funding (HK\$m) 762,106 767,213 768,157 771,588 762,817	13	Total leverage ratio ('LR') exposure measure (HK\$m)		1,641,358	1,647,574	1,632,393	1,577,686	1,572,114
15 Total high quality liquid assets ('HQLA') (HK\$m) 401,898 373,182 333,086 314,106 324,034 16 Total net cash outflows (HK\$m) 194,202 187,369 168,382 173,303 161,484 17 LCR (%) 207.8 199.4 198.0 181.6 201.8 Net Stable Funding Ratio ('NSFR') 6 18 Total available stable funding (HK\$m) 1,165,359 1,144,760 1,159,538 1,126,874 1,137,453 19 Total required stable funding (HK\$m) 762,106 767,213 768,157 771,588 762,817	14	· /		7.9	7.7	7.6	7.6	7.8
16 Total net cash outflows (HK\$m) 194,202 187,369 168,382 173,303 161,484 17 LCR (%) 207.8 199.4 198.0 181.6 201.8 Net Stable Funding Ratio ('NSFR') 6 18 Total available stable funding (HK\$m) 1,165,359 1,144,760 1,159,538 1,126,874 1,137,453 19 Total required stable funding (HK\$m) 762,106 767,213 768,157 771,588 762,817			5					
17 LCR (%) 207.8 199.4 198.0 181.6 201.8 Net Stable Funding Ratio ('NSFR') 6 18 Total available stable funding (HK\$m) 1,165,359 1,144,760 1,159,538 1,126,874 1,137,453 19 Total required stable funding (HK\$m) 762,106 767,213 768,157 771,588 762,817	15	Total high quality liquid assets ('HQLA') (HK\$m)		401,898	373,182	333,086	314,106	324,034
Net Stable Funding Ratio ('NSFR') 6 18 Total available stable funding (HK\$m) 1,165,359 1,144,760 1,159,538 1,126,874 1,137,453 19 Total required stable funding (HK\$m) 762,106 767,213 768,157 771,588 762,817	16	Total net cash outflows (HK\$m)		194,202	187,369	168,382	173,303	161,484
18 Total available stable funding (HK\$m) 1,165,359 1,144,760 1,159,538 1,126,874 1,137,453 19 Total required stable funding (HK\$m) 762,106 767,213 768,157 771,588 762,817	17			207.8	199.4	198.0	181.6	201.8
19 Total required stable funding (HK\$m) 762,106 767,213 768,157 771,588 762,817			6					
	18	Total available stable funding (HK\$m)		1,165,359	1,144,760	1,159,538	1,126,874	1,137,453
20 NSFR (%) 152.9 149.2 151.0 146.0 149.1	19	•		762,106	767,213	768,157	771,588	762,817
	20	NSFR (%)		152.9	149.2	151.0	146.0	149.1

- 1 The regulatory capital, RWA, risk-based regulatory capital ratios and additional CET1 buffer requirements above are based on or derived from the information as contained in the 'Capital Adequacy Ratio (MA(BS)3)' return submitted to the HKMA on a consolidated basis under the requirements of section 3C(1) of the Banking (Capital) Rules ('BCR').
- 2 The jurisdictional CCyB of Hong Kong used in the calculation of CCyB requirement at quarter end was 1.0% for 1Q 2020 to 4Q 2020 and 2.0% for 4Q 2019. The reduction was in accordance with the announcement made by the HKMA on 16 March 2020. The jurisdictional CCyB for other countries at quarter end ranged from 0% to 1.0% for 4Q 2020.
- 3 On 24 December 2019, the HKMA announced a reduction in the higher loss absorbency requirement for the Bank from 1.5% to 1.0% effective from 1 January 2020.
- 4 The Basel III leverage ratios are disclosed in accordance with the information contained in the 'Leverage Ratio (MA(BS)27)' return submitted to the HKMA under the requirements specified in Part 1C of the BCR.
- 5 The LCRs shown are the simple average values of all working days in the reporting periods and are made in accordance with the requirements specified in the 'Liquidity Position (MA(BS)1E)' return submitted to the HKMA under rule 11(1) of the Banking (Liquidity) Rules ('BLR').
- 6 The NSFR disclosures are made in accordance with the information contained in the 'Stable Funding Position (MA(BS)26)' return submitted to the HKMA under the requirements specified in rule 11(1) of the BLR.

Overview of Risk Management

Our risk management framework

We use an enterprise-wide, risk management framework across the organisation and across all risk types. It is underpinned by our risk culture.

The framework fosters continuous monitoring of the risk environment, and promotes risk awareness and sound operational and strategic decision making. It also ensures we have a consistent approach to monitoring, managing and mitigating the risks we accept and incur in our activities. Further information on our risk management framework is set out on page 49 of the Group's 2020 Annual Report*. The measurement and management of principal risks facing the Group is described on pages 57 to 59 of the Group's 2020 Annual Report*.

Risk culture

We have long recognised the importance of a strong risk culture. Our risk culture is reinforced by HSBC Values. It is instrumental in aligning the behaviours of individuals with our attitude to assuming and managing risk, which helps to ensure that our risk profile remains in line with our risk appetite. The fostering of a strong risk culture is a key responsibility of our senior executives.

Our risk culture is further reinforced by our approach to remuneration. Individual awards, including those for senior executives, are based on compliance with HSBC Values and the achievement of financial and non-financial objectives that are aligned to our risk appetite and strategy.

Risk governance

The Board has ultimate responsibility for the effective management of risk and approves the risk appetite. It is advised by the Risk Committee.

Executive accountability for the ongoing monitoring, assessment and management of the risk environment and the effectiveness of the risk management framework resides with the Group's Chief Risk Officer, supported by the Risk Management Meeting ('RMM').

Day-to-day responsibility for risk management is delegated to senior managers with individual accountability for decision making. All employees have a role to play in risk management. These roles are defined using the Three Lines of Defence model, which takes into account the Group's business and functional structures.

We use a defined executive risk goverance structure to ensure appropriate oversight and accountability for risk, which facilitates the reporting and escalation to the RMM.

Risk appetite

Risk appetite is a key component of our management of risk. It sets out the aggregate level and types of risk that we are willing to accept in achieving our medium to long-term strategic goals. Within the Group, risk appetite is managed through a global risk appetite framework and articulated in a Risk Appetite Statement ('RAS'), which is approved by the Board on the advice of the Group's Risk Committee.

The RMM regularly reviews the Group's actual risk appetite profile against the limits set out in the RAS on monthly basis to enable senior management to monitor the risk profile and guide business activities in order to balance risk and return. The actual risk appetite profile is also reported to the Risk Committee and Board from Chief Risk Officer including material deviation and related management mitigating actions.

The Group's risk appetite informs our strategic and financial planning process, defining the desired forward-looking risk profile of the Group. It is also integrated within other risk management tools, such as the top and emerging risks report and stress testing, to ensure consistency in risk management. Information on our risk management tools is set out on pages 50 to 52 of the Group's 2020 Annual Report*. Details on the Group's overarching risk appetite are set out in the global risk appetite framework.

Stress testing

The Group operates a wide-ranging stress testing programme that supports our risk management and capital planning. It includes execution of stress tests mandated by our regulators. Our stress testing is supported by dedicated teams and infrastructure.

Our testing programme assesses our capital strength through a rigorous examination of our resilience to external shocks. It also helps us understand and mitigate risks, and informs our decision about capital levels. As well as taking part in regulatory driven stress tests, we conduct our own internal stress tests

Stress test results are reported, where appropriate, to the RMM and the Group's Risk Committee which oversees the Group's stress testing programme.

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 Page 32

 Page 50 to 52
 Page 34 to 35

 Page 57 to 59
 Page 42 to 44

^{*} Refers to printed version. The page reference of Annual Report (text version) is as follows:

The Group's Risk functions

The Group's Risk function, headed by the Group's Chief Risk Officer, is responsible for enterprise-wide risk oversight. This includes establishing policy, monitoring risk profiles and forward-looking risk identification and management. The Group's Risk function is made up of sub-functions covering all risks to our operations. They are independent from business functions in order to provide challenge, appropriate oversight and balance in risk/return decisions.

Risk management and internal control systems

The Directors are responsible for maintaining and reviewing the effectiveness of risk management and internal control systems, and for determining the aggregate level and risk types they are willing to accept in achieving the Group's business objectives.

On behalf of the Board, the Group's Audit Committee has responsibility for oversight of risk management and internal controls over financial reporting, and the Group's Risk Committee has responsibility for oversight of risk management and internal controls other than for financial reporting.

The Directors, through the Group's Risk Committee and the Group's Audit Committee, conduct an annual review of the effectiveness of our system of risk management and internal control. The Group's Risk Committee and the Group's Audit Committee received confirmation that executive management has taken or is taking the necessary actions to remedy any failings or weaknesses identified through the operation of our framework of controls.

Risk measurement and reporting systems

Our risk measurement and reporting systems are designed to help ensure that risks are comprehensively captured with all the attributes necessary to support well-founded decisions, that those attributes are accurately assessed, and that information is delivered in a timely manner for those risks to be successfully managed and mitigated.

Risk measurement and reporting systems are also subject to a governance framework designed to ensure that their build and implementation are fit for purpose and functioning appropriately. Risk information systems development is a key responsibility of the Risk and IT functions, while the development and operation of risk rating and management systems and processes are ultimately subject to the oversight of the Board.

We continue to invest significant resources in IT systems and processes in order to maintain and improve our risk management capabilities. Group policy promotes the deployment of preferred technology where practicable. Group standards govern the procurement and operation of systems used in our subsidiaries to process risk information within business lines and risk functions.

Risk measurement and reporting structures deployed at Group level are applied throughout global businesses and major operating subsidiaries through a common operating model for integrated risk management and control. This model sets out the respective responsibilities of Group, global business and country level risk functions in respect of such matters as risk governance and oversight, compliance risks, approval authorities and lending guidelines, global and local scorecards, management information and reporting, and relations with third parties, including regulators, rating agencies and auditors.

Risk analytics and model governance

The Group's Risk functions manage a number of analytics disciplines supporting the development and management of models, including those for risk rating, scoring, economic capital and stress testing models covering different risk types and business segments. The analytics functions formulate technical responses to industry developments and regulatory policy in the field of risk analytics, supports the development of the HSBC Group's global risk model, develop local risk model and oversee the use around the Group toward our implementation targets for IRB approaches.

The HSBC Group Model Oversight Forum ('MOF') is the primary committee responsible for the oversight of Model Risk globally within HSBC Group. It serves an important role in providing strategic direction on the management of models and their associated risks to HSBC's businesses globally and is an essential element of the governance structure for model risk management. MOF is supported by Functional MOFs at the global, regional and site levels which are responsible for model risk management within their function areas, including wholesale credit risk, market risk, retail risk, and finance.

Models are also subject to an independent validation process and governance oversight by the Model Risk Management team within the HSBC Global Risk. The Independent Model Review within Model Risk Management team provides robust challenge to the modelling approaches used across the HSBC Group, including the Bank, and ensures that the performance of those models is transparent and that their limitations are visible to key stakeholders. Information on key developments of model risk governance for the Group during the year can be found on page 104 of the Group's 2020 Annual Report*.

 $^{* \}textit{Refers to printed version}. \textit{ The page reference of Annual Report (text version) is page 88}.$

Linkage to the 2020 Annual Report

Basis of consolidation

The basis of consolidation for financial accounting purposes is in accordance with Hong Kong Financial Reporting Standards ('HKFRS'), as described in note 1 on the consolidated financial statements in the Group's 2020 Annual Report.

The basis of consolidation for regulatory purposes is different from that for accounting purposes. Subsidiaries included in the consolidation for regulatory purposes are specified in a notice from the HKMA in accordance with section 3C(1) of the BCR.

Subsidiaries not included in consolidation for regulatory purposes are securities and insurance companies that are authorised and supervised by regulators and are subject to supervisory arrangements regarding the maintenance of adequate capital to support business activities comparable to those prescribed for authorised institutions ('AI') under the BCR and the Banking Ordinance. The capital invested by the Group in these subsidiaries is deducted from the capital base subject to certain thresholds, as determined in accordance with Part 3 of the BCR.

For insurance entities, the present value of in-force long-term insurance business ("PVIF") asset of HK\$22,551m and the related deferred tax liability of HK\$3,721m are only recognised on consolidation in financial reporting and are therefore not included in the asset or equity positions for the stand-alone entities presented in the below table.

As at 31 December 2020, there are no subsidiaries which are included within both the accounting scope of consolidation and the regulatory scope of consolidation but the method of consolidation differs.

There are also no subsidiaries which are included within the regulatory scope of consolidation but not included within the accounting scope of consolidation as at 31 December 2020.

The Group operates subsidiaries in different territories where capital is governed by local rules and there may be restrictions on the transfer of regulatory capital and funds between members of the Group.

The Group maintains a regulatory reserve to satisfy the provisions of the Banking Ordinance and local regulatory requirements for prudential supervision purposes. As at 31 December 2020, the effect of this requirement is to restrict the amount of reserves which can be distributed to shareholders by HK\$1,323m.

There are no relevant capital shortfalls in any of the Group's subsidiaries which are not included in its consolidation group for regulatory purposes as at 31 December 2020.

A list of subsidiaries not included in consolidation for regulatory purposes is shown below:

Table 2: List of subsidiaries outside the regulatory scope	e of consolidation		
		As at 31 Do	ec 2020
	Principal activities	Total assets*	Total equity*
		HK\$m	HK\$m
Hang Seng Investment Management Ltd	Fund management	503	477
Hang Seng Investment Services Ltd	Provision of investment commentaries	9	9
Hang Seng Securities Ltd	Stockbroking	4,907	607
Hang Seng Insurance Co. Ltd and its subsidiaries	Retirement benefits and life assurance	165,872	12,966

Fund raising, fund sales and asset management

Hang Seng Qianhai Fund Management Co. Ltd

The approaches used in calculating the Group's regulatory capital and RWA are in accordance with the BCR. The Group uses the advanced internal ratings-based (IRB') approach to calculate its credit risk for the majority of its non-securitisation exposures. For counterparty credit risk, the Group uses the current exposure method to calculate its default risk exposures. For market risk, the Group uses an internal models approach to calculate its general market risk for the risk categories of interest rate and foreign exchange (including gold) exposures and the standardised (market risk) approach for calculating other market risk positions. For operational risk, the Group uses the standardised (operational risk) approach to calculate its operational risk.

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^{*} Prepared in accordance with HKFRS

Balance sheet reconciliation

The following table expands the balance sheet under the regulatory scope of consolidation to show separately the capital components that are reported in the 'Composition of regulatory capital' template in Table 6. The capital components in this table contain a reference that shows how these amounts are included in Table 6.

Table 3: CC2 – Reconciliation of regulatory capital to balance sheet			
, , ,	a	b	С
	Balance sheet as in	Under regulatory	Cross-referenced
	published financial	scope of	to Definition of
	statements	consolidation	Capital
	As at 31 Dec 2020	As at 31 Dec 2020	Components
	HK\$m	HK\$m	
Assets	·	·	
Cash and balances at central banks	11,226	11,226	
Trading assets	37,117	37,097	
Derivative financial instruments	17,181	17,208	
Financial assets designated and otherwise mandatorily measured at fair value			
through profit or loss	20,695	77	
Reverse repurchase agreements – non-trading	13,360	16,390	
Placings with and advances to banks	44,357	39,204	
Loans and advances to customers	944,774	946,132	
of which: Impairment allowances eligible for inclusion in Tier 2 capital		689	(1)
Financial investments	554,720	431,560	
Investment in subsidiaries		7,344	
Subordinated loans to subsidiaries		1,045	(2)
Interest in associates	2,358	-	
Investment properties	9,415	6,700	
Premises, plant and equipment	30,925	30,593	
Intangible assets	24,733	1,849	(3)
Other assets	48,926	35,280	
of which: Deferred tax assets ('DTAs')		183	(4)
Defined benefit pension fund net assets		7	(5)
Total assets	1,759,787	1,581,705	
Liabilities			
Deposits from banks	12,943	12,943	
Current, savings and other deposit accounts	1,209,472	1,212,330	
Repurchase agreements – non-trading	6,270	4,177	
Trading liabilities	30,937	30,937	
Derivative financial instruments	20,861	21,143	
of which: Gains and losses due to changes in own credit risk on fair valued liabilities		15	(6)
Financial liabilities designated at fair value	32,530	32,111	
of which: Gains and losses due to changes in own credit risk on fair valued liabilities		(5)	(7)
Certificates of deposit and other debt securities in issue	62,500	62,500	
Other liabilities	31,334	24,718	
Liabilities under insurance contracts	142,680	-	
Current tax liabilities	282	196	
Deferred tax liabilities	7,302	3,510	
of which: Deferred tax liabilities related to intangible assets		283	(8)
Deferred tax liabilities related to defined benefit pension fund	10 401	10.401	(9)
Subordinated liabilities	19,481	19,481	
Total liabilities	1,576,592	1,424,046	
Equity			
Share capital	9,658	9,658	
Retained profits	137,580	112,175	(11)
of which: Revaluation gains of investment properties		6,140	(12)
Regulatory reserve for general banking risks		1,323	(13)
Regulatory reserve eligible for inclusion in Tier 2 capital		242	(14)
Valuation adjustments	11 744	99	(15)
Other equity instruments	11,744	11,744	(16)
Other reserves	24,118	24,082	(17)
of which: Cash flow hedge reserve		51	(18)
Valuation adjustments Payalyation reserve of properties		17,927	(19)
Revaluation reserve of properties Total charaboldors' conits:	103 100		(20)
Total shareholders' equity	183,100 95	157,659	
Non-controlling interests			
Total equity	183,195	157,659	
Total equity and liabilities	1,759,787	1,581,705	

Table 4: LI1 – Differences between accounting and regulatory scopes of consolidation and mapping of financial statement categories with regulatory risk categories

	a	b	c	d	e	f	g
				Carry	ing values of	items:	
							not subject to
	Carrying	Carrying					capital
	values	values					require-
		under scope		subject to	subject to		ments or
	in published	of regulatory	subject to	counterparty	the securi-	subject to	subject to
	financial		credit risk	credit risk	tisation	market risk	deduction
	statements	solidation	framework	framework	framework	framework	from capital
As at 31 Dec 2020 Footnote	s HK\$m	HK\$m	HK\$m	HK\$m	HK\$m	HK\$m	HK\$m
Assets							
Cash and balances at central banks	11,226	11,226	11,226	-	-	-	-
Trading assets	37,117	37,097	-	-	-	37,097	-
Derivative financial instruments	17,181	17,208	-	16,904	-	17,208	304
Financial assets designated and otherwise							
mandatorily measured at fair value through							
profit or loss	20,695	77	-	77	-	-	-
Reverse repurchase agreements – non-trading	13,360	16,390	-	16,390	-	-	-
Placings with and advances to banks	44,357	39,204	39,204	-	-	-	-
Loans and advances to customers	944,774	946,132	946,132	-	-	-	-
Financial investments	554,720	431,560	431,560	-	-	-	-
Investment in subsidiaries	-	7,344	7,344	-	-	-	-
Subordinated loans to subsidiaries	-	1,045	-	-	-	-	1,045
Interest in associates	2,358	-	-	-	-	-	-
Investment properties	9,415	6,700	6,700	-	-	-	-
Premises, plant and equipment	30,925	30,593	30,593	-	-	-	-
Intangible assets	2 24,733	1,849	-	-	-	-	1,566
Other assets 2,	48,926	35,280	32,324	2,766	-	-	189
Total assets	1,759,787	1,581,705	1,505,083	36,137	-	54,305	3,104
Liabilities							
Deposits from banks	12,943	12,943	-	-	-	-	12,943
Current, savings and other deposit accounts	1,209,472	1,212,330	-	-	-	-	1,212,330
Repurchase agreements – non-trading	6,270	4,177	-	4,177	-	-	-
Trading liabilities	30,937	30,937	-	-	-	30,937	-
Derivative financial instruments	20,861	21,143	-	21,143	-	21,143	-
Financial liabilities designated at fair value	32,530	32,111	-	-	-	31	32,080
Certificates of deposit and other debt							
securities in issue	62,500	62,500	-	-	-	-	62,500
Other liabilities	31,334	24,718	-	947	-	-	23,771
Liabilities under insurance contracts	142,680	-	-	-	-	-	-
Current tax liabilities	282	196	-	-	-	-	196
Deferred tax liabilities	7,302	3,510	-	-	-	-	3,510
Subordinated liabilities	19,481	19,481	-	-	-	•	19,481
Total liabilities	1,576,592	1,424,046	-	26,267	-	52,111	1,366,811

Assets/liabilities arising from derivative contracts held in the regulatory trading book are subject to both market risk and counterparty credit risk because derivative contracts are mark to market and there is a risk that the counterparty may not be able to fulfil the contractual obligations. As a result, the amounts shown in column (b) do not equal the sum of columns (c) to (g).

² The assets disclosed in column (g) are net of any associated deferred tax liability in accordance with HKMA requirement.

³ The difference in the carrying values reported in the financial statements in column (a) and the scope of regulatory consolidation in column (b) mainly represents (i) the differences between the financial and regulatory scope of consolidation, and (ii) the amounts of acceptance and endorsements being included as contingencies in accordance with the BCR, whilst for accounting purposes, acceptances and endorsements are recognised on the balance sheet.

Table 5: L12 - Main sources of differences between regulatory exposure amounts and carrying values in financial statements

			a	b	c	d	e	
			_	Items subject to:				
			Total	credit risk framework	securitisation framework	counterparty credit risk framework	market risk framework	
As	at 31 Dec 2020	Footnotes	HK\$m	HK\$m	HK\$m	HK\$m	HK\$m	
1	Asset carrying value amount under scope of regulatory consolidation (as per template LI1)	1	1,578,601	1,505,083	-	36,137	54,305	
2	Liabilities carrying value amount under regulatory scope of consolidation (as per template LI1)	2	57,234		-	26,267	52,111	
3	Total net amount under regulatory scope of consolidation		1,521,367	1,505,083	-	9,870	2,194	
4	Off-balance sheet amounts and potential future exposures for counterparty risk		520,885	169,216	-	9,559	-	
5	Differences due to impairments		5,028	5,028	-	-	-	
6	Differences due to recognised collateral		(11,171)	(11,171)	-	-	-	
7	Differences arising from off-balance sheet amounts recognised in regulatory exposures		(351,669)	_	-	-		
8	Differences due to credit risk mitigation		(517)	-	-	(517)	-	
9	Differences arising from capital deductions		(284)	-	-	-	-	
10	Exposure amounts considered for regulatory purposes		1,683,639	1,668,156		18,912	2,194	

- 1 The amount shown in column (a) is equal to column (b) less column (g) in the Total assets row in Table 4.
- The amount shown in column (a) is equal to column (b) less column (g) in the Total liabilities row in Table 4.

Explanations of differences between accounting and regulatory exposure amounts

Off-balance sheet amounts and potential future exposures for counterparty risk

Off-balance sheet amounts subject to credit risk regulatory framework include undrawn portions of committed facilities, various trade finance commitments and guarantees. We apply credit conversion factors ('CCF') to these items and add potential future exposures ('PFE') for counterparty credit risk.

Differences due to impairments

The carrying value of assets is net of impairments. From the regulatory perspective, exposure value under the IRB approach and non-defaulted exposure under the standardised approach are before deducting impairments.

Differences due to recognised collateral

Exposure value under the standardised approach is calculated after deducting credit risk mitigation whereas accounting value is before such deductions.

Differences due to credit risk mitigation

In counterparty credit risk, differences arise between accounting carrying values and regulatory exposure as a result of the application of credit risk mitigation.

Explanations of differences between accounting fair value and regulatory prudent valuation

Fair value is defined as the best estimate of the price that would be received to sell an asset or be paid to transfer a liability in an orderly transaction between market participants at the measurement date.

Some fair value adjustments already reflect valuation uncertainty to some degree. These are market data uncertainty, model uncertainty and concentration adjustments.

However, it is recognised that a variety of valuation techniques using stressed assumptions and combined with the range of plausible market parameters at a given point in time may still generate unexpected uncertainty beyond fair value.

A series of additional valuation adjustments ('AVAs') are therefore required to reach a specified degree of confidence (the 'Prudent Value') set by regulators that differs both in terms of scope and measurement from the Group's own quantification for disclosure purposes.

AVAs should consider at the minimum: market price uncertainty, bid-offer (close-out) uncertainty, model risk, concentration, administration costs, unearned credit spreads and investing and funding costs.

AVAs are not limited to level 3 exposures, for which a 95% uncertainty range is already computed and disclosed, but must also be calculated for any exposure for which the exit price cannot be determined with a high degree of certainty. Table 50 presents further information on the prudent valuation adjustment.

Capital and RWA

Regulatory capital disclosures

The following table sets out the detailed composition of the Group's regulatory capital using the composition of regulatory capital disclosures template as specified by the HKMA.

ı able	e 6: CC1 – Composition of regulatory capital		1
		a	b
			Cross-referenced to Table 3
			Source based on reference numbers/letters of the balance sheet
		Component of	under the
		regulatory capital	regulatory scope
	As at 31 Dec 2020	HK\$m	of consolidation
	CET1 capital: instruments and reserves	π	or consolidation
1	Directly issued qualifying CET1 capital instruments plus any related share premium	9,658	(10)
2	Retained earnings	112,175	(11)
3	Disclosed reserves	24,082	(17)
4	Directly issued capital subject to phase-out arrangements from CET1 (only applicable to non-joint	24,002	(17)
4	stock companies)	Not applicable	Not applicable
5	Minority interests arising from CET1 capital instruments issued by consolidated bank subsidiaries	тот аррисамс	140t applicable
3	and held by third parties (amount allowed in CET1 capital of the consolidation group)	_	
6	CET1 capital before regulatory deductions	145,915	
	CET1 capital before regulatory deductions CET1 capital: regulatory deductions	143,913	
7	Valuation adjustments	100	(15) + (19)
8	Goodwill (net of associated deferred tax liability)	100	(13) + (13)
9	Other intangible assets (net of associated deferred tax liabilities)	1,566	(3) - (8)
10	Deferred tax assets (net of associated deferred tax liabilities)	183	(4)
11	Cash flow hedge reserve	51	(18)
12	Excess of total EL amount over total eligible provisions under the IRB approach	31	(16)
13		<u> </u>	
13	Credit-enhancing interest-only strip, and any gain-on-sale and other increase in the CET1 capital arising from securitisation transactions	_	
14	Gains and losses due to changes in own credit risk on fair valued liabilities	10	(6) + (7)
15	Defined benefit pension fund net assets (net of associated deferred tax liabilities)	6	(6) + (7) (5) - (9)
16	Investments in own CET1 capital instruments (if not already netted off paid-in capital on reported	U	(3) - (9)
10	balance sheet)		
17	,	<u> </u>	
18	Reciprocal cross-holdings in CET1 capital instruments Insignificant LAC investments in CET1 capital instruments issued by financial sector entities that are	<u>-</u>	
10	outside the scope of regulatory consolidation (amount above 10% threshold)		
19		<u> </u>	
19	Significant LAC investments in CET1 capital instruments issued by financial sector entities that are		
20	outside the scope of regulatory consolidation (amount above 10% threshold)	N-4	NT . 1' 11
20	Mortgage servicing rights (net of associated deferred tax liabilities)	Not applicable	Not applicable
21	Deferred tax assets arising from temporary differences (net of associated deferred tax liabilities)	Not applicable	Not applicable
22	Amount exceeding the 15% threshold	Not applicable	Not applicable
23	of which: significant investments in the ordinary share of financial sector entities	Not applicable	Not applicable
24	of which: mortgage servicing rights	Not applicable	Not applicable
25	of which: deferred tax assets arising from temporary differences	Not applicable	Not applicable
26	National specific regulatory adjustments applied to CET1 capital	25,390	
26a	Cumulative fair value gains arising from the revaluation of land and buildings (own-use and	24.067	(12) . (20)
261-	investment properties)	24,067 1,323	(12) + (20)
26b	Regulatory reserve for general banking risks	1,323	(13)
26c	Securitisation exposures specified in a notice given by the Monetary Authority	<u> </u>	
26d	Cumulative losses below depreciated cost arising from the institution's holdings of land and buildings	-	
26e	Capital shortfall of regulated non-bank subsidiaries	-	
26f	Capital investment in a connected company which is a commercial entity (amount above 15% of the		
27	reporting institution's capital base) Paralleters deductions capital to CET1 capital the to insufficient additional tion 1 ((AT1)) capital and	<u> </u>	
27	Regulatory deductions applied to CET1 capital due to insufficient additional tier 1 ('AT1') capital and		
20	Tier 2 capital to cover deductions Total regulatory, deductions to CET1 capital	27,306	
28 29	Total regulatory deductions to CET1 capital	118,609	
29	CET1 capital	110,009	

Table	e 6: CC1 – Composition of regulatory capital (continued)		
1 401	to the composition of regulatory cupital (community)	a	b
			Cross-referenced
			to Table 3
			Source based on
			reference numbers/letters of
			the balance sheet
		Component of	under the
		Component of regulatory capital	regulatory scope
		HK\$m	of consolidation
	AT1 capital: instruments		
30	Qualifying AT1 capital instruments plus any related share premium	11,744	
31	of which: classified as equity under applicable accounting standards	11,744	(16)
32	of which: classified as liabilities under applicable accounting standards	-	. ,
33	Capital instruments subject to phase-out arrangements from AT1 capital	-	
34	AT1 capital instruments issued by consolidated bank subsidiaries and held by third parties (amount		
	allowed in AT1 capital of the consolidation group)	-	
35	of which: AT1 capital instruments issued by subsidiaries subject to phase-out arrangements	-	
36	AT1 capital before regulatory deductions	11,744	
	AT1 capital: regulatory deductions	-	
37	Investments in own AT1 capital instruments	-	
38	Reciprocal cross-holdings in AT1 capital instruments	-	
39	Insignificant LAC investments in AT1 capital instruments issued by financial sector entities that are		
	outside the scope of regulatory consolidation (amount above 10% threshold)	-	
40	Significant LAC investments in AT1 capital instruments issued by financial sector entities that are		
	outside the scope of regulatory consolidation	-	
41	National specific regulatory adjustments applied to AT1 capital	-	
42	Regulatory deductions applied to AT1 capital due to insufficient Tier 2 capital to cover deductions	-	
43	Total regulatory deductions to AT1 capital	-	
44	AT1 capital	11,744	
45	Tier 1 capital (T1 = CET1 + AT1)	130,353	
	Tier 2 capital: instruments and provisions		
46	Qualifying Tier 2 capital instruments plus any related share premium	-	
47	Capital instruments subject to phase-out arrangements from Tier 2 capital	-	
48	Tier 2 capital instruments issued by consolidated bank subsidiaries and held by third parties (amount allowed in Tier 2 capital of the consolidation group)		
40	of which: capital instruments issued by subsidiaries subject to phase-out arrangements		
49 50	Collective provisions and regulatory reserve for general banking risks eligible for inclusion in Tier 2	•	
30	capital	931	(1) + (14)
51	Tier 2 capital before regulatory deductions	931	(1) + (14)
31	Tier 2 capital: regulatory deductions		
52	Investments in own Tier 2 capital instruments	-	
53	Reciprocal cross-holdings in Tier 2 capital instruments and non-capital LAC liabilities	-	
54	Insignificant LAC investments in Tier 2 capital instruments issued by, and non-capital LAC liabilities		
	of, financial sector entities that are outside the scope of regulatory consolidation (amount above 10%		
	threshold and, where applicable, 5% threshold)	-	
54a	Insignificant LAC investments in non-capital LAC liabilities of financial sector entities that are		
	outside the scope of regulatory consolidation (amount formerly designated for the 5% threshold but		
	no longer meets the conditions) (for institutions defined as 'section 2 institution' under §2(1) of		
	Schedule 4F to BCR only)	-	
55	Significant LAC investments in Tier 2 capital instruments issued by financial sector entities that are		
	outside the scope of regulatory consolidation (net of eligible short positions)	1,045	(2)
55a	Significant LAC investments in non-capital LAC liabilities of financial sector entities that are outside		
	the scope of regulatory consolidation (net of eligible short positions)	(10.021)	
56	National specific regulatory adjustments applied to Tier 2 capital	(10,831)	
56a	Add back of cumulative fair value gains arising from the revaluation of land and buildings (own-use	(10.021)	((12) + (20)) \$450
5 < 1.	and investment properties) eligible for inclusion in Tier 2 capital	(10,831)	((12)+(20))*45%
56b	Regulatory deductions applied to Tier 2 capital to cover the required deductions falling within §48(1)(g) of BCR		
57	Total regulatory adjustments to Tier 2 capital	(9,786)	
58	Tier 2 capital (T2)	10,717	
59	Total regulatory capital (TC = T1 + T2)	141,070	
60	Total RWA	705,528	
		700,020	

Table	e 6: CC1 – Composition of regulatory capital (continued)		
		a	b
			Cross-referenced
			to Table 3
			Source based on
			reference
			numbers/letters of
			the balance sheet
		Component of	under the
		regulatory capital	regulatory scope
		HK\$m	of consolidation
	Capital ratios (as a percentage of RWA)	<u> </u>	
61	CET1 capital ratio	16.8%	
62	Tier 1 capital ratio	18.5%	
63	Total capital ratio	20.0%	
64	Institution-specific buffer requirement (capital conservation buffer plus countercyclical capital		
	buffer plus higher loss absorbency requirements)	4.329%	
65	of which: capital conservation buffer requirement	2.500%	
66	of which: bank specific countercyclical capital buffer requirement	0.829%	
67	of which: higher loss absorbency requirement	1.000%	
68	CET1 (as a percentage of RWA) available after meeting minimum capital requirements	12.0%	
	National minima (if different from Basel 3 minimum)	N 4 1 11	NT . 1' 11
69	National CET1 minimum ratio	Not applicable	Not applicable
70	National Tier 1 minimum ratio	Not applicable	Not applicable
71	National Total capital minimum ratio	Not applicable	Not applicable
72	Amounts below the thresholds for deduction (before risk weighting) Insignificant LAC investments in CET1, AT1 and Tier 2 capital instruments issued by, and non-		
12	capital LAC liabilities of, financial sector entities that are outside the scope of regulatory		
	consolidation	6,720	
73	Significant LAC investments in CET1 capital instruments issued by financial sector entities that are	0,720	
	outside the scope of regulatory consolidation	7,675	
74	Mortgage servicing rights (net of associated deferred tax liabilities)	Not applicable	Not applicable
75	Deferred tax assets arising from temporary differences (net of associated deferred tax liabilities)	Not applicable	Not applicable
	Applicable caps on the inclusion of provisions in Tier 2 capital		
76	Provisions eligible for inclusion in Tier 2 in respect of exposures subject to the BSC approach, or the		
	STC approach and SEC-ERBA, SEC-SA and SEC-FBA (prior to application of cap)	410	
77	Cap on inclusion of provisions in Tier 2 under the BSC approach, or the STC approach, and SEC-		_
	ERBA, SEC-SA and SEC-FBA	845	
78	Provisions eligible for inclusion in Tier 2 in respect of exposures subject to the IRB approach and SEC-IRBA (prior to application of cap)	521	
79	Cap for inclusion of provisions in Tier 2 under the IRB approach and SEC-IRBA	3,397	
	Capital instruments subject to phase-out arrangements (only applicable between 1 Jan 2018	*	
	and 1 Jan 2022)		
80	Current cap on CET1 capital instruments subject to phase-out arrangements	Not applicable	Not applicable
81	Amount excluded from CET1 due to cap (excess over cap after redemptions and maturities)	Not applicable	Not applicable
82	Current cap on AT1 capital instruments subject to phase-out arrangements	-	
83	Amount excluded from AT1 capital due to cap (excess over cap after redemptions and maturities)	-	
84	Current cap on Tier 2 capital instruments subject to phase-out arrangements	-	
	Amount excluded from Tier 2 capital due to cap (excess over cap after redemptions and maturities)		

Table 6: CC1 – Composition of regulatory capital (continued)

Notes to the template:

Elements where a more conservative definition has been applied in the BCR relative to that set out in Basel III capital standards:

		Hong Kong	Basel III
		basis	basis
	As at 31 Dec 2020	HK\$m	HK\$m
10	Deferred tax assets (net of associated deferred tax liabilities)	183	0

Explanation

As set out in paragraphs 69 and 87 of the Basel III text issued by the Basel Committee (December 2010), DTAs of the bank to be realised are to be deducted, whereas DTAs which relate to temporary differences may be given limited recognition in CET1 capital (and hence be excluded from deduction from CET1 capital up to the specified threshold). In Hong Kong, an AI is required to deduct all DTAs in full, irrespective of their origin, from CET1 capital. Therefore, the amount to be deducted as reported in row 10 may be greater than that required under Basel III.

The amount reported under the column 'Basel III basis' in this box represents the amount reported in row 10 (i.e. the amount reported under the 'Hong Kong basis') adjusted by reducing the amount of DTAs to be deducted which relate to temporary differences to the extent not in excess of the 10% threshold set for DTAs arising from temporary differences and the aggregate 15% threshold set for Mortgage servicing rights ('MSRs'), DTAs arising from temporary differences and significant investments in CET1 capital instruments issued by financial sector entities (excluding those that are loans, facilities and other credit exposures to connected companies) under Basel III.

Remarks:

The amount of the 10% threshold mentioned above is calculated based on the amount of CET1 capital determined in accordance with the deduction methods set out in BCR Schedule 4F. The 15% threshold is referring to paragraph 88 of the Basel III text issued by the Basel Committee (December 2010) and has no effect to the Hong Kong regime.

Countercyclical capital buffer ratio

The countercyclical capital buffer ('CCyB') is calculated as the weighted average of the applicable CCyB ratios in effect in the jurisdictions in which banks have private sector credit exposures. The Group uses country of business as the basis of geographical allocation for the majority of its credit risk and risk country for market risk, which is defined by considering the country of incorporation, location of guarantor, headquarter domicile, distribution of revenue and booking country.

Table 7: CCyB1 – Geographical distribution of credit exposures used in countercyclical capital buffer

	As at 31 Dec 2020		a	С	d	e
				RWA used in		
			Applicable JCCyB	computation of	AI-specific CCyB	
	Geographical breakdown by		ratio in effect	CCyB ratio	ratio	CCyB amount
	Jurisdiction ('J')	Footnotes	%	HK\$m	%	HK\$m
1	Hong Kong SAR	1	1.000	490,095		
2	Luxembourg		0.250	384		
3	Norway		1.000	1		
	Sum	2		490,480		
	Total	3		591,413	0.829	5,849

¹ The jurisdictional CCyB of Hong Kong used in the calculation of CCyB requirement at quarter end was 1.0% for 1Q 2020 to 4Q 2020 and 2.0% for 4Q 2019. The reduction was in accordance with the announcement made by the HKMA on 16 March 2020. The jurisdictional CCyB for other countries at quarter end ranged from 0% to 1.0% for 4Q 2020.

² This represents the sum of RWA for the private sector credit exposures in jurisdictions with a non-zero countercyclical buffer rate.

³ The total RWA used in the computation of the CCyB ratio in column (c) represents the total RWA for the private sector credit exposures in all jurisdictions to which the bank is exposed, including jurisdictions with no countercyclical buffer rate or with a countercyclical buffer rate set at zero. The CCyB amount in column (e) represents the Group's total RWA multiplied by the AI-specific CCyB ratio in column (d).

Leverage ratio

The following table shows the leverage ratio, Tier 1 capital and total exposure measure as contained in the 'Leverage Ratio' return submitted to the HKMA under the requirements specified in Part 1C of the BCR.

Tal	ele 8: LR2 – Leverage ratio		
		a	b
		31 Dec	30 Sep
		2020	2020
		HK\$m	HK\$m
	On-balance sheet exposures		
1	On-balance sheet exposures (excluding those arising from derivative contracts and securities financing		
	transactions ('SFTs'), but including collateral)	1,548,832	1,552,231
2	Less: Asset amounts deducted in determining Tier 1 capital	(27,295)	(27,710)
3	Total on-balance sheet exposures (excluding derivative contracts and SFTs)	1,521,537	1,524,521
	Exposures arising from derivative contracts		
4	Replacement cost associated with all derivative contracts (where applicable net of eligible cash variation		
	margin and/or with bilateral netting)	7,947	6,295
5	Add-on amounts for PFE associated with all derivative contracts	10,878	12,359
6	Gross-up for derivatives collateral provided where deducted from the balance sheet assets pursuant to the		
	applicable accounting framework	-	
7	Less: Deductions of receivables assets for cash variation margin provided under derivative contracts	-	
8	Less: Exempted central counterparty ('CCP') leg of client-cleared trade exposures	-	_
9	Adjusted effective notional amount of written credit derivative contracts	-	_
10	Less: Adjusted effective notional offsets and add-on deductions for written credit derivative contracts	-	
11	Total exposures arising from derivative contracts	18,825	18,654
	Exposures arising from SFTs		
12	Gross SFT assets (with no recognition of netting), after adjusting for sale accounting transactions	20,855	23,066
13	Less: Netted amounts of cash payables and cash receivables of gross SFT assets	-	-
14	Counterparty credit risk ('CCR') exposure for SFT assets	372	549
15	Agent transaction exposures	-	-
16	Total exposures arising from SFTs	21,227	23,615
	Other off-balance sheet exposures		
17	Off-balance sheet exposure at gross notional amount	520,885	522,371
18	Less: Adjustments for conversion to credit equivalent amounts	(435,725)	(436,426)
19	Off-balance sheet items	85,160	85,945
	Capital and total exposures		
20	Tier 1 capital	130,353	126,211
20a	Total exposures before adjustments for specific and collective provisions	1,646,749	1,652,735
20t	Adjustments for specific and collective provisions	(5,391)	(5,161)
21	Total exposures after adjustments for specific and collective provisions	1,641,358	1,647,574
	Leverage ratio		
22	Leverage ratio	7.9%	7.7%

Table 9: LR1 – Summary comparison of accounting assets against leverage ratio exposure measure As at 31 Dec 2020 a Value under the LR framework HK\$m Total consolidated assets as per published financial statements 1,759,787 Adjustment for investments in banking, financial, insurance or commercial entities that are consolidated for accounting purposes but outside the scope of regulatory consolidation (169,069)Adjustment for fiduciary assets recognised on the balance sheet pursuant to the applicable accounting standard but excluded from the LR exposure measure Adjustments for derivative contracts 1,617 Adjustment for SFTs (i.e. repos and similar secured lending) 372 Adjustment for off-balance sheet ('OBS') items (i.e. conversion to credit equivalent amounts of OBS exposures) 85,160 Adjustment for specific and collective provisions that are allowed to be excluded from exposure measure (5,391)Other adjustments (31,118) Leverage ratio exposure measure 1,641,358

Other adjustments mainly represent the regulatory deductions of property revaluation reserves and regulatory reserve to Tier 1 capital under the leverage ratio framework.

Overview of RWA and the minimum capital requirements

Table	e 10: OV1 – Overview of RWA			
		a	b	c
			•	Minimum
				capital
		RW	A^1	requirements ²
		31 Dec	30 Sep	31 Dec
		2020	2020	2020
		HK\$m	HK\$m	HK\$m
1	Credit risk for non-securitisation exposures	551,441	561,614	46,439
2	Of which: Standardised credit risk ('STC') approach	67,463	67,115	5,397
2 <i>a</i>	Of which: Basic ('BSC') approach	-	-	-
3	Of which: Foundation internal ratings-based ('IRB') approach	-	-	
4	Of which: Supervisory slotting criteria approach	18,203	17,478	1,544
5	Of which: Advanced IRB approach	465,775	477,021	39,498
6	Counterparty default risk and default fund contributions	4,287	3,924	363
7	Of which: Standardised approach for counterparty credit risk ('SA-CCR')*	Not applicable	Not applicable	Not applicable
7a	Of which: Current exposure method ('CEM')	4,094	3,742	347
8	Of which: Internal models (counterparty credit risk) ('IMM(CCR)') approach	-	-	
9	Of which: Others	193	182	16
10	Credit valuation adjustment ('CVA') risk	3,881	3,872	310
11	Equity positions in banking book under the simple risk-weight method and the internal	,	,	
	models method	26,879	20,970	2,279
12	Collective investment scheme ('CIS') exposures – Look-through approach ('LTA')*	Not applicable	Not applicable	Not applicable
13	CIS exposures – Mandate-based approach ('MBA')*	Not applicable	Not applicable	Not applicable
14	CIS exposures – Fall-back approach ('FBA')*	Not applicable	Not applicable	Not applicable
14a	CIS exposures – combination of approaches*	Not applicable	Not applicable	Not applicable
15	Settlement risk	- **		
16	Securitisation exposures in banking book	-	-	-
17	Of which: Securitisation internal ratings-based ('SEC-IRBA') approach	-	-	_
18	Of which: Securitisation external ratings-based ('SEC-ERBA') approach	-	-	-
19	Of which: Securitisation standardised ('SEC-SA') approach	-	-	-
19a	Of which: Securitisation fall-back ('SEC-FBA') approach	-	-	-
20	Market risk	14,332	11,471	1,146
21	Of which: Standardised market risk ('STM') approach	337	257	26
22	Of which: Internal models ('IMM') approach	13,995	11,214	1,120
23	Capital charge for switch between exposures in trading book and banking book	•	•	<u> </u>
	(not applicable before the revised market risk framework takes effect)*	Not applicable	Not applicable	Not applicable
24	Operational risk	66,709	67,196	5,337
24a	Sovereign concentration risk	-		-
25	Amounts below the thresholds for deduction (subject to 250% Risk-weight ('RW'))	19,188	19,094	1,627
26	Capital floor adjustment			
26a	Deduction to RWA	(13,237)	(13,567)	(1,059)
26b	Of which: Portion of regulatory reserve for general banking risks and	(10,207)	(15,507)	(1,00)
200	collective provisions which is not included in Tier 2 Capital	_	_	_
26c	Of which: Portion of cumulative fair value gains arising from the revaluation	-	<u> </u>	<u>-</u>
200	of land and buildings which is not included in Tier 2 Capital	(12.227)	(12 567)	(1.050)
27	Total	(13,237) 673,480	(13,567) 674,574	(1,059) 56,442
41	TUIAI	0/3,480	0/4,5/4	50,442

RWA in this table are before the application of the 1.06 scaling factor, where applicable.

Total RWA decreased by HK\$1.1bn since last quarter. Credit risk RWA for non-securitisation exposures was the key contributor which decreased by HK\$10.2bn mainly driven by change in loan size. The movement was partly offset by the increase in RWA on equity positions in banking book under the simple risk-weight method by HK\$5.9bn due to value appreciation on holding and the increase in market risk RWA by HK\$2.9bn mainly driven by changes in HKD and Offshore Chinese Yuan ('CNH') interest rate trading positions.

² Minimum capital requirement represents the Pillar 1 capital charge at 8% of the RWA after application of the 1.06 scaling factor, where applicable.

³ Items marked with an asterisk (*) will be applicable only after their respective policy frameworks take effect. Until then, 'Not applicable' is reported in the rows.

RWA flow statements

RWA flow statement for credit risk

Table 11: CR8 – RWA flow statement of credit risk exposures under IRB approach

		a
		Amount
		HK\$m
1	RWA as at end of previous reporting period (30 Sep 2020)	494,499
2	Asset size	(16,323)
3	Asset quality	3,664
4	Model updates	<u>-</u>
5	Methodology and policy	-
6	Acquisitions and disposals	-
7	Foreign exchange movements	2,304
8	Other	(166)
9	RWA as at end of reporting period (31 Dec 2020)	483,978

¹ Credit risk in this table represents the credit risk for non-securitisation exposures excluding counterparty credit risk.

RWA decreased by HK\$10.5bn during the fourth quarter of 2020. It was mainly due to a decrease of HK\$16.3bn from asset size driven by change in loan size and partly offset by an increase of HK\$3.7bn from the change in asset quality.

RWA flow statement for market risk

Table 12: MR2 – RWA flow statement of market risk exposures under IMM approach

		a	b	С	d	e	f
				Incremental	Comprehensive		
		Value at risk	Stressed	risk charge	risk charge		Total
		('VaR')	VaR	('IRC')	('CRC')	Other	RWA
		HK\$m	HK\$m	HK\$m	HK\$m	HK\$m	HK\$m
1	RWA as at end of previous						
	reporting period						
	(30 Sep 2020)	4,952	6,262	-	-	-	11,214
2	Movement in risk levels	351	2,425	-	-	-	2,776
3	Model updates/changes	-	-	-	-	-	-
4	Methodology and policy	-	-	-	-	-	-
5	Acquisitions and disposals	-	-	-	-	-	-
6	Foreign exchange movements	2	3	-	-	-	5
7	Other	-	-	-	-	-	-
8	RWA as at end of						
	reporting period						
	(31 Dec 2020)	5,305	8,690	-	-	-	13,995

The increase in market risk RWA was mainly driven by changes in HKD and CNH interest rate trading positions.

Loss-absorbing capacity

Table 13: KM2(A) – Key metrics – LAC requirements

rat	ile 13: KM2(A) – Key metrics – LAC requirements						
			a	b	С	d	e
					At		
		-	31 Dec	30 Sep	30 Jun	31 Mar	31 Dec
	Fa	ootnotes	2020	2020	2020	2020	2019
Of	the material entity at LAC consolidation group level						
1	Internal loss-absorbing capacity available (HK\$m)		160,551	156,866	154,856	152,566	156,743
2	Risk-weighted amount under the LAC Rules (HK\$m)		705,528	706,871	687,404	679,616	658,856
3	Internal LAC risk-weighted ratio (%)		22.8	22.2	22.5	22.4	23.8
4	Exposure measure under the LAC Rules (HK\$m)		1,640,313	1,646,529	1,631,348	1,576,641	1,571,199
5	Internal LAC leverage ratio (%)		9.8	9.5	9.5	9.7	10.0
6a	Does the subordination exemption in the antepenultimate paragraph of		Not	Not	Not	Not	Not
	Section 11 of the FSB TLAC Term Sheet apply?	1	applicable	applicable	applicable	applicable	applicable
6b	Does the subordination exemption in the penultimate paragraph of Section		Not	Not	Not	Not	Not
	11 of the FSB TLAC Term Sheet apply?	1	applicable	applicable	applicable	applicable	applicable
6c	If the capped subordination exemption applies, the amount of funding						
	issued that ranks pari passu with excluded liabilities and that is recognised						
	as external loss-absorbing capacity, divided by funding issued that ranks						
	pari passu with excluded liabilities and that would be recognised as		Not	Not	Not	Not	Not
	external loss-absorbing capacity if no cap was applied	1	applicable	applicable	applicable	applicable	applicable

¹ The subordination exemptions under Section 11 of the Financial Stability Board ('FSB') Total Loss-absorbing Capacity Term Sheet ('TLAC Term Sheet') do not apply in Hong Kong under the LAC Rules.

Table 14: TLAC1(A) – TLAC composition

		a
		Amount
	As at 31 Dec 2020	HK\$m
	Regulatory capital elements of internal loss-absorbing capacity and adjustments	· · ·
1	Common Equity Tier 1 ('CET1') capital	118,609
2	Additional Tier 1 ('AT1') capital before LAC adjustments	11,744
3	AT1 capital instruments ineligible as internal loss-absorbing capacity as not issued directly or indirectly to, and held directly	
	or indirectly by, the resolution entity or non-HK resolution entity in the material subsidiary's resolution group	-
4	Other adjustments	-
5	AT1 capital eligible under the LAC Rules	11,744
6	Tier 2 (T2') capital before LAC adjustments	10,717
7	Amortised portion of T2 capital instruments that are internal LAC debt instruments issued directly or indirectly to, and held	
	directly or indirectly by, the resolution entity or non-HK resolution entity in the material subsidiary's resolution group	-
8	T2 capital instruments ineligible as internal loss-absorbing capacity as not issued directly or indirectly to, and held directly or	
	indirectly by, the resolution entity or non-HK resolution entity in the material subsidiary's resolution group	-
9	Other adjustments	-
10	T2 capital eligible under the LAC Rules	10,717
11	Internal loss-absorbing capacity arising from regulatory capital	141,070
	Non-regulatory capital elements of internal loss-absorbing capacity (HK\$m)	_
12	Internal non-capital LAC debt instruments issued directly or indirectly to, and held indirectly or indirectly by, the resolution	_
	entity or non-HK resolution entity in the material subsidiary's resolution group	19,481
17	Internal loss-absorbing capacity arising from non-capital LAC debt instruments before adjustments	19,481
	Non-regulatory capital elements of internal loss-absorbing capacity: adjustments (HK\$m)	· · · · · · · · · · · · · · · · · · ·
18	Internal loss-absorbing capacity before deductions	160,551
19	Deductions of exposures between the material subsidiary's LAC consolidation group and group companies outside that group	
	that correspond to non-capital items eligible for internal loss-absorbing capacity	-
20	Deduction of holdings of its own non-capital LAC liabilities	-
21	Other adjustments to internal loss-absorbing capacity	-
22	Internal loss-absorbing capacity after deductions	160,551
	Risk-weighted amount and exposure measure under the LAC Rules for internal loss-absorbing capacity purposes	_
23	Risk-weighted amount under the LAC Rules	705,528
24	Exposure measure under the LAC Rules	1,640,313
	Internal LAC ratios and buffers (%)	
25	Internal LAC risk-weighted ratio	22.8
26	Internal LAC leverage ratio	9.8
27	CET1 capital (as a percentage of RWA under the BCR) available after meeting the LAC consolidation group's minimum capital	
	and LAC requirements	10.8
28	Institution-specific buffer requirement (capital conservation buffer plus countercyclical capital buffer requirements plus higher	
	loss absorbency requirement, expressed as a percentage of RWA under the BCR)	4.329
29	Of which: capital conservation buffer requirement	2.500
30	Of which: institution-specific countercyclical capital buffer requirement	0.829
31	Of which: higher loss absorbency requirement	1.000

Table 15: TLAC2 – Hang Seng Bank Limited creditor ranking

			Creditor ranking (HK\$m)			Sum of values in
		1	1	2	3	columns
		(most junior)	(most junior)		(most senior)	1 to 3
1	Is the resolution entity or a non-HK resolution entity the					
	creditor/investor? (yes or no) ¹	No	Yes	Yes	Yes	
2	Description of creditor ranking	Ordinary	Ordinary	AT1		
		shares ²	shares ²	instruments	LAC loans	
3	Total capital and liabilities net of credit risk mitigation	3,657	6,001	11,744	19,481	40,883
4	Subset of row 3 that is excluded liabilities	-	-	-	-	-
5	Total capital and liabilities less excluded liabilities	3,657	6,001	11,744	19,481	40,883
6	Subset of row 5 that are eligible as internal loss-absorbing capacity	3,657	6,001	11,744	19,481	40,883
7	Subset of row 6 with 1 year ≤ residual maturity < 2 years	-	-	-	-	-
8	Subset of row 6 with 2 years ≤ residual maturity < 5 years	-	-	-	-	-
9	Subset of row 6 with 5 years ≤ residual maturity < 10 years	-	-	-	19,481	19,481
10	Subset of row 6 with residual maturity ≥ 10 years, but excluding					
	perpetual securities	-	-	-	-	-
11	Subset of row 6 that is perpetual securities	3,657	6,001	11,744	-	21,402

¹ Any direct/indirect holdings by the resolution entity is reported as 'yes'.

 $^{2\}quad Excludes \ the \ value \ of \ reserves \ attributable \ to \ ordinary \ shareholders.$

Main features of regulatory capital instruments and non-capital LAC debt instruments

The following is a summary of CET1 capital, AT1 capital and non-capital LAC debt instruments that meet both regulatory capital and LAC requirements, or only LAC (but not regulatory capital) requirements.

Table 16: CCA(A) – Main features of regulatory capital instruments and non-capital LAC debt instruments

(i) In	struments that meet both regulatory capital and LAC requirements	a			
	31 Dec 2020	Quantitative / qualitative information			
7 15 41	. 51 Dec 2020	Ordinary shares			
1	Issuer	Hang Seng Bank Limited			
2	Unique identifier (e.g. CUSIP, ISIN or Bloomberg identifier for private placement)	HK0011000095			
3	Governing law(s) of the instrument	Laws of Hong Kong			
3	Means by which enforceability requirement of Section 13 of the TLAC Term Sheet is achieved (for	Laws of Hong Rong			
3a	non-capital LAC debt instruments governed by non-Hong Kong law)	N/A			
	Regulatory treatment				
4	Transitional Basel III rules ¹	N/A			
5	Post-transitional Basel III rules ²	CET1			
6	Eligible at solo / group / solo and group (for regulatory capital purposes)	Solo and Group			
6a	Eligible at solo / LAC consolidation group / solo and LAC consolidation group (for LAC purposes)	Solo and LAC consolidation group			
7	Instrument type (types to be specified by each jurisdiction)	Ordinary shares			
8	Amount recognised in regulatory capital (currency in millions, as of most recent reporting date)	HK\$ 9,658 million			
	Amount recognised in loss-absorbing capacity				
8a	(currency in millions, as of most recent reporting date)	HK\$ 9,658 million			
9	Par value of instrument	No par value (Total amount HK\$ 9,658 million)			
10	Accounting classification	Shareholders' equity			
11	Original date of issuance	Various			
12	Perpetual or dated	Perpetual			
13	Original maturity date	No maturity			
	E ;	N/A			
14	Issuer call subject to prior supervisory approval Optional call date, contingent call dates and redemption price	N/A			
15					
16	Subsequent call dates, if applicable Coupons / dividends	N/A			
17	Fixed or floating dividend/coupon	N/A			
18	Coupon rate and any related index	N/A			
	Existence of a dividend stopper	N/A			
19	**				
20	Fully discretionary, partially discretionary or mandatory	Fully discretionary			
21	Existence of step up or other incentive to redeem	N/A			
22	Non-cumulative or cumulative	Non-cumulative			
23	Convertible or non-convertible	Non-convertible			
24	If convertible, conversion trigger(s)	N/A			
25	If convertible, fully or partially	N/A			
26	If convertible, conversion rate	N/A			
27	If convertible, mandatory or optional conversion	N/A			
28	If convertible, specify instrument type convertible into	N/A			
29	If convertible, specify issuer of instrument it converts into	N/A			
30	Write-down feature	No			
31	If write-down, write-down trigger(s)	N/A			
32	If write-down, full or partial	N/A			
33	If write-down, permanent or temporary	N/A			
34	If temporary write-down, description of write-up mechanism	N/A			
34a	Type of subordination	Contractual			
35	Position in subordination hierarchy in liquidation (specify instrument type immediately senior to instrument in the insolvency creditor hierarchy of the legal entity concerned)	Immediately subordinate to AT1 instruments (columns b and c)			
36	Non-compliant transitioned features	No			
37	If yes, specify non-compliant features	N/A			
51	n jes, speenj non compinant toutates	1 * 11 * 2			

Terms and conditions

Terms and conditions - Ordinary shares

Footnote:

¹ Regulatory treatment of capital instruments subject to transitional arrangements provided for in Schedule 4H to the BCR.

² Regulatory treatment of capital instruments not subject to transitional arrangements provided for in Schedule 4H to the BCR.

³ Subject to FIRO

⁴ Terms and conditions to be read in conjunction with the Master terms and conditions (the 'Master terms and conditions')

Master terms and conditions

Table 16: CCA(A) – Main features of regulatory capital instruments and non-capital LAC debt instruments (continued)

		1.	T
		b	С
As at	31 Dec 2020		litative information
		Perpetual subordinated loan (US\$ 900 million)	Perpetual subordinated loan (US\$ 600 million)
1	Issuer	Hang Seng Bank Limited	Hang Seng Bank Limited
2	Unique identifier	N/A	N/A
3	Governing law(s) of the instrument	Laws of Hong Kong	Laws of Hong Kong
3a	Means by which enforceability requirement of Section 13 of the TLAC Term Sheet is achieved	N/A	N/A
	Regulatory treatment		
4	Transitional Basel III rules ¹	N/A	N/A
5	Post-transitional Basel III rules ²	AT1	AT1
6	Eligible at solo / group / solo and group	Solo and Group	Solo and Group
6a	Eligible at solo / LAC consolidation group / solo and LAC consolidation group	Solo and LAC consolidation group	Solo and LAC consolidation group
7	Instrument type (types to be specified by each jurisdiction)	Perpetual debt instrument	Perpetual debt instrument
8	Amount recognised in regulatory capital	HK\$ 7,044 million	HK\$ 4,700 million
8a	Amount recognised in loss-absorbing capacity	HK\$ 7,044 million	HK\$ 4,700 million
9	Par value of instrument	US\$ 900 million	US\$ 600 million
10	Accounting classification	Shareholders' equity	Shareholders' equity
11	Original date of issuance	14 June 2019	18 June 2019
12	Perpetual or dated	Perpetual	Perpetual
13	Original maturity date	No maturity	No maturity
14	Issuer call subject to prior supervisory approval	Yes	Yes
15	Optional call date, contingent call dates and redemption price	17 September 2024 at par value	18 June 2024 at par value
16	Subsequent call dates, if applicable	Callable on any interest payment date after first call date	Callable on any interest payment date after first call date
	Coupons / dividends		
17	Fixed or floating dividend/coupon	Fixed until 17 September 2024 and thereafter floating	Fixed until 18 June 2024 and thereafter floating
18	Coupon rate and any related index	· · · · · · · · · · · · · · · · · · ·	6.000% until 18 June 2024, and thereafter 3-month US\$ LIBOR + 4.060%
19	Existence of a dividend stopper	No	No
20	Fully discretionary, partially discretionary or mandatory	Fully discretionary	Fully discretionary
21	Existence of step up or other incentive to redeem	No	No
22	Non-cumulative or cumulative	Non-cumulative	Non-cumulative
23	Convertible or non-convertible	Non-convertible ³	Non-convertible ³
24	If convertible, conversion trigger(s)	N/A	N/A
25	If convertible, fully or partially	N/A	N/A
26	If convertible, conversion rate	N/A	N/A
27	If convertible, mandatory or optional conversion	N/A	N/A
28	If convertible, specify instrument type convertible into	N/A	N/A
29	If convertible, specify issuer of instrument it converts into	N/A	N/A
30	Write-down feature	Yes	Yes
31	If write-down, write-down trigger(s)	Contractual write-down at point of non-viability of borrower. Contractual recognition of HKMA statutory powers under FIRO	Contractual write-down at point of non-viability of borrower. Contractual recognition of HKMA statutory powers under FIRO
32	If write-down, full or partial	May be written down partially	May be written down partially
33	If write-down, permanent or temporary	Permanent	Permanent
34	If temporary write-down, description of write-up mechanism	N/A	N/A
34a	Type of subordination	Contractual	Contractual
	Position in subordination hierarchy in liquidation	· ·	Immediately subordinate to non-capital
35	(specify instrument type immediately senior to instrument in the	LAC debt instruments	LAC debt instruments
	insolvency creditor hierarchy of the legal entity concerned)	(columns a to d under ii)	(columns a to d under ii)
	Non-compliant transitioned features	No	No
37	If yes, specify non-compliant features	N/A	N/A
_	Terms and conditions	Individual loan agreement ⁴	Individual loan agreement ⁴

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Table 16: CCA(A) - Main features of regulatory capital instruments and non-capital LAC debt instruments (continued)

(ii) Instruments that meet only LAC (but not regulatory capital) requirements h As at 31 Dec 2020 Quantitative / qualitative information Subordinated loan Subordinated loan (HK\$ 4,680 million) (HK\$ 5,460 million) Hang Seng Bank Limited Hang Seng Bank Limited Issuer Unique identifier N/A N/A Governing law(s) of the instrument Laws of Hong Kong Laws of Hong Kong Means by which enforceability requirement of Section 13 of the TLAC N/A N/A 3а Term Sheet is achieved Regulatory treatment 4 Transitional Basel III rules1 N/A N/A 5 Post-transitional Basel III rules Ineligible Ineligible 6 Eligible at solo / group / solo and group Ineligible Ineligible Eligible at solo / LAC consolidation group / solo and LAC Solo and LAC consolidation group Solo and LAC consolidation group 6a consolidation group Instrument type (types to be specified by each jurisdiction) Non-capital LAC debt instrument Non-capital LAC debt instrument Amount recognised in regulatory capital N/A HK\$ 5,460 million HK\$ 4,680 million Amount recognised in loss-absorbing capacity 8a Par value of instrument HK\$ 5,460 million HK\$ 4,680 million 10 Accounting classification Liability - amortised cost Liability - amortised cost Original date of issuance 30 May 2019 10 June 2019 11 12 Perpetual or dated Dated Dated Interest payment date falling in May Interest payment date falling in June 13 Original maturity date 2028 14 Issuer call subject to prior supervisory approval Yes Yes Interest payment date falling in May Interest payment date falling in June 15 Optional call date, contingent call dates and redemption price 2027 at par value 2028 at par value Callable on any interest payment date Callable on any interest payment date Subsequent call dates, if applicable 16 after first call date after first call date Coupons / dividends 17 Fixed or floating dividend/coupon Floating Floating 3-month HK\$ HIBOR + 1.564% 3-month HK\$ HIBOR + 1.425% Coupon rate and any related index 18 Existence of a dividend stopper 19 No No Mandatory Fully discretionary, partially discretionary or mandatory 20 Mandatory Existence of step up or other incentive to redeem No No Non-cumulative Non-cumulative 22 Non-cumulative or cumulative Convertible or non-convertible 23 Non-convertible Non-convertible 24 If convertible, conversion trigger(s) N/A N/A 25 If convertible, fully or partially N/A N/A If convertible, conversion rate N/A 26 N/A If convertible, mandatory or optional conversion N/A N/A 27 28 If convertible, specify instrument type convertible into N/A N/A 29 If convertible, specify issuer of instrument it converts into N/A N/A 30 Write-down feature Yes Yes Contractual write-down at point of Contractual write-down at point of non-viability of borrower. Contractual non-viability of borrower. Contractual 31 If write-down, write-down trigger(s) recognition of HKMA statutory recognition of HKMA statutory powers under FIRO powers under FIRO May be written down partially May be written down partially 32 If write-down, full or partial If write-down, permanent or temporary 33 Permanent Permanent If temporary write-down, description of write-up mechanism 34 N/A N/A Type of subordination Contractual Contractual Immediately subordinate to the claims Immediately subordinate to the claims 35 Position in subordination hierarchy in liquidation of all unsubordinated creditors of all unsubordinated creditors Non-compliant transitioned features Nο No 36

Terms and conditions <u>Individual loan agreement</u> <u>Individual loan agreement</u> <u>Individual loan agreement</u>

N/A

N/A

If yes, specify non-compliant features

Table 16: CCA(A) – Main features of regulatory capital instruments and non-capital LAC debt instruments (continued)

			,			
		c	d			
As at	31 Dec 2020	Quantitative / qualitative information				
		Subordinated loan	Subordinated loan			
		(US\$ 400 million)	(HK\$ 6,240 million)			
1	Issuer	Hang Seng Bank Limited	Hang Seng Bank Limited			
2	Unique identifier	N/A	N/A			
3	Governing law(s) of the instrument	Laws of Hong Kong	Laws of Hong Kong			
3a	Means by which enforceability requirement of Section 13 of the TLAC Term Sheet is achieved	N/A	N/A			
	Regulatory treatment					
4	Transitional Basel III rules ¹	N/A	N/A			
5	Post-transitional Basel III rules ²	Ineligible	Ineligible			
6	Eligible at solo / group / solo and group	Ineligible	Ineligible			
	Eligible at solo / LAC consolidation group / solo and LAC					
6a	consolidation group	Solo and LAC consolidation group	Solo and LAC consolidation group			
7	Instrument type (types to be specified by each jurisdiction)	Non-capital LAC debt instrument	Non-capital LAC debt instrument			
8	Amount recognised in regulatory capital	N/A	N/A			
8a	Amount recognised in loss-absorbing capacity	HK\$ 3,101 million	HK\$ 6,240 million			
9	Par value of instrument	US\$ 400 million	HK\$ 6,240 million			
10	Accounting classification	Liability – amortised cost	Liability – amortised cost			
11	Original date of issuance	10 June 2019	13 June 2019			
12	Perpetual or dated	Dated	Dated			
12	1 cripetual of dated	Interest payment date falling in June	Interest payment date falling in June			
13	Original maturity date	2030	2026			
14	Issuer call subject to prior supervisory approval	Yes	Yes			
15	Optional call date, contingent call dates and redemption price	Interest payment date falling in June 2029 at par value	Interest payment date falling in June 2025 at par value			
16	Subsequent call dates, if applicable	Callable on any interest payment date after first call date	Callable on any interest payment date after first call date			
	Coupons / dividends					
17	Fixed or floating dividend/coupon	Floating	Floating			
18	Coupon rate and any related index	3-month US\$ LIBOR + 1.789%	3-month HK\$ HIBOR + 1.342%			
19	Existence of a dividend stopper	No	No			
20	Fully discretionary, partially discretionary or mandatory	Mandatory	Mandatory			
21	Existence of step up or other incentive to redeem	No	No			
22	Non-cumulative or cumulative	Non-cumulative	Non-cumulative			
23	Convertible or non-convertible	Non-convertible ³	Non-convertible ³			
24	If convertible, conversion trigger(s)	N/A	N/A			
25	If convertible, fully or partially	N/A	N/A			
26	If convertible, conversion rate	N/A	N/A			
27	If convertible, mandatory or optional conversion	N/A	N/A			
28	If convertible, specify instrument type convertible into	N/A	N/A			
29	If convertible, specify issuer of instrument it converts into	N/A	N/A			
30	Write-down feature	Yes	Yes			
		Contractual write-down at point of	Contractual write-down at point of			
		non-viability of borrower. Contractual	non-viability of borrower. Contractual			
31	If write-down, write-down trigger(s)	recognition of HKMA statutory	recognition of HKMA statutory			
		powers under FIRO	powers under FIRO			
32	If write-down, full or partial	May be written down partially	May be written down partially			
33	If write-down, permanent or temporary	Permanent	Permanent			
34	If temporary write-down, description of write-up mechanism	N/A	N/A			
34a	Type of subordination	Contractual	Contractual			
J+a	1 JPC of suportunation	Immediately subordinate to the claims	Immediately subordinate to the claims			
35	Position in subordination hierarchy in liquidation	of all unsubordinated creditors	of all unsubordinated creditors			
36	Non-compliant transitioned features	No	No			
37	If yes, specify non-compliant features	N/A	N/A			

Terms and conditions <u>Individual loan agreement</u> <u>Individual loan agreement</u> <u>Individual loan agreement</u>

Credit risk

Credit risk management

Credit risk is the risk that financial loss arises from the failure of a customer or counterparty to meet its obligations under a contract. It arises principally from lending, trade finance, and treasury businesses. The Group has dedicated standards, policies and procedures in place to control and monitor risk from all such activities.

The principal objectives of our credit risk management function are:

- to maintain across the Group a strong culture of responsible lending and a robust credit risk policy and control framework;
- to both partner and challenge our businesses in defining, implementing and continually re-evaluating our credit risk appetite under actual and stress scenario conditions; and
- to ensure there is independent, expert scrutiny of credit risks, their costs and their mitigation.

The credit risk functions within Wholesale Credit and Market Risk and Wealth and Personal Banking Risk are the constituent parts of the Group's Risk functions that support the Group's Chief Risk Officer in overseeing credit risks. Their major duties comprise undertaking independent review of large and high-risk credit proposals, overseeing large exposure policy and reporting on our wholesale and retail credit risk management disciplines, owning our credit policy and credit system programmes, overseeing portfolio management and reporting on risk matters to senior executive management and to regulators.

These credit risk functions work closely with other functions of the Group.

Credit risk operates through a hierarchy of individual credit approval authority limits. With delegation from the Board, Executive Committee delegates the credit approval authority limits to Chief Executive and empowers the Chief Executive to further delegate to Chief Risk Officer and senior management teams on individual basis. Chief Risk Officer is empowered by Chief Executive to further delegate the credit approval authority limits.

Business model/strategy will be reviewed regularly by different business units taking into consideration of current market condition and the Group's risk appetite. Credit risk policies and limits will also be reviewed to align with the direction of defined risk appetite and business strategy.

Credit Risk Management

The Group's exposure to credit risk arises from a wide range of customers and product types. To measure and manage the risk in these exposures, both to distinct customer types or product categories, the Group employs diverse risk rating systems and methodologies: judgmental, analytical, and hybrids of the two.

A fundamental principle of the Group's policy and approach is that analytical risk rating systems and scorecards are decision tools facilitating management, serving ultimately judgemental decisions for which individual approvers are accountable.

For individually assessed customers, the credit process provides for at least annual review of the facility granted. Review may be more frequent, as required by circumstances.

The Group adopts a set of standards that govern the process through which risk rating systems are initially developed, judged fit for purpose, approved and implemented. The conditions under which analytical risk model outcomes can be overridden by approvers and the process of model performance monitoring and reporting. The framework emphasises on an effective dialogue between business line and risk management, suitable independence of decision takers and a good understanding and robust challenge on the part of senior management.

Analytical risk rating systems are not static and are subject to review and modification in light of the changing environment and the greater availability and quality of data. Processes are established to capture the relevant data for continuous model improvement.

We constantly seek to improve the quality of our risk management. IT systems that process credit risk data continue to be enhanced in order to deliver both comprehensive management information in support of business strategy and solutions to evolving regulatory reporting requirements.

Credit quality of assets

Tables 17 to 21 present information on the credit quality of exposures by exposure category, geographical location, industry and residual maturity on a regulatory consolidation basis. For further detail on the credit quality of IRB and STC exposures, refer to Table 33 to 34 and 36 respectively.

The loans covered in these tables are generally referred to as any on-balance sheet exposures included as credit risk for non-securitisation exposures, covering exposures to customers, banks, sovereigns and others. Cash items and non-financial assets are excluded.

Table 17: CR1 – Credit quality of exposures

		a	b	c	d	e	f	g
					Of which Expec	ted Credit Loss		
					('ECL') account	ing provisions ¹		
					for credit los			
		Gross carrying amounts of			approach o	exposures	Of which ECL	
					Allocated in	Allocated in	accounting	
					regulatory	regulatory	provisions for	
			Non-		category of	category of	credit losses on	
		Defaulted	defaulted	Allowances/	specific	collective	IRB approach	Net values
		exposures	exposures	impairments	provisions	provisions	exposures	$(\mathbf{a} + \mathbf{b} - \mathbf{c})$
	As at 31 Dec 2020	HK\$m	HK\$m	HK\$m	HK\$m	HK\$m	HK\$m	HK\$m
1	Loans	5,724	995,284	5,180	152	254	4,774	995,828
2	Debt securities	-	425,494	9	-	-	9	425,485
3	Off-balance sheet exposures	-	520,885	202	-	15	187	520,683
4	Total	5,724	1,941,663	5,391	152	269	4,970	1,941,996

The categorisation of ECL accounting provisions into regulatory category of specific and collective provisions follows the treatment specified in the completion instruction of the HKMA 'Capital Adequacy Ratio - (MA(BS)3)' return. According to the completion instruction, the ECL accounting provisions classified into Stage 1 and Stage 2 are treated as collective provisions, while those classified under Stage 3 are treated as specific provisions. Provisions made for purchased or originated credit-impaired financial assets, under which any changes in lifetime expected credit losses will be recognised in the profit and loss account as an impairment gain or loss, are treated as specific provisions.

Table 18: CR2 – Changes in defaulted loans and debt securities

	of 18. CR2 – Changes in defauted loans and debt securities		
			a
			Amount
		Footnote	HK\$m
1	Defaulted loans and debt securities at end of the previous reporting period (30 Jun 2020)		3,031
2	Loans and debt securities that have defaulted since the last reporting period		3,837
3	Returned to non-defaulted status		(20)
4	Amounts written off		(646)
5	Other changes	1	(478)
6	Defaulted loans and debt securities at end of the current reporting period (31 Dec 2020)		5,724

Other changes included repayment and foreign exchange movements.

			1
Table 19: CRB1 -	Exposures by	geographical	location1

Table 19: CRB1 – Exposures by geographical location ¹	
	Gross carrying
	amounts at
	31 Dec
	2020
Footnote	HK\$m
Hong Kong SAR	1,734,538
Others 2	212,849
Total	1,947,387

- The geographical locations shown in this table are based on the country / territory of the exposures being booked.
- Any geographical segment which constitutes less than 10% of total gross carrying amounts is disclosed on an aggregated basis under the category 'Others'.

Table 20: CRB2 – Exposures by industry	
	Gross carrying
	amounts at
	31 Dec
	2020
	HK\$m
Industrial, commercial and financial	
- Property development and investment	353,337
- Financial concerns	337,329
- Stockbrokers	3,594
- Wholesale and retail trade	104,707
- Manufacturing	74,451
- Transport and transport equipment	18,785
- Recreational activities	1,514
- Information technology	24,435
- Others	377,426
Individuals	582,932
Trade finance	68,877
Total	1,947,387
Table 21: CRB3 – Exposures by residual maturity	
	Gross carrying
	amounts at
	31 Dec
	2020
	HK\$m
Less than 1 year	841,515
Between 1 and 5 years	523,824
More than 5 years	580,109
Undated	1,939
Total	1,947,387

Impaired exposures, past due unimpaired exposures and renegotiated exposures

Tables 22 to 25 analyse impaired exposures, impairment allowances, past due unimpaired exposures and renegotiated exposures on a regulatory consolidation basis.

Our approach for determining impairment allowances, definitions for accounting purposes of 'credit-impaired' and 'renegotiated' are explained in Note 2(j) of the Group's 2020 Annual Report. The accounting definition of credit impaired and the regulatory definition of default are generally aligned.

The analysis of gross impaired loans and advances and impairment allowances by major industry sectors based on categories and definitions used by the Group is as follows:

Table 22: CRB4 - Impaired exposures and related allowances and write-offs by industry

		Gross	Gross	0 1			Impairment provisions	Advances
		loans and advances to customers ¹	impaired loans and advances	Overdue loans and advances ²	Specific provisions ³	Collective provisions ³	(charged to) / released from profit and loss	written off during the year
As at 31 Dec 2020	Footnote	HK\$m	HK\$m	HK\$m	HK\$m	HK\$m	HK\$m	HK\$m
Residential mortgages		284,111	486	233	(45)	(2)	(28)	-
Real estate		269,871	243	60	(18)	(416)	(2)	-
Others	4	397,330	4,995	1,951	(1,981)	(2,718)	(2,579)	1,091
Total		951,312	5,724	2,244	(2,044)	(3,136)	(2,609)	1,091

- 1 The amounts shown in column 'Gross loans and advances to customers' represent loans and advances to customers gross of provisions in the financial statements under the regulatory consolidation scope and therefore is different from the 'Gross loans and advances to customers' shown in table 26 which is prepared on accounting consolidation basis. The difference of total gross loans of HK\$1,358m represents the Bank's loans and advances to the Group's subsidiaries which are outside the regulatory scope of consolidation.
- 2 The amounts shown in column 'Overdue loans and advances' represent gross loans and advances to customers that were overdue for more than 3 months as at 31 December 2020.
- 3 The classification of specific and collective provisions follows the treatment specified in the completion instructions of the HKMA 'Capital Adequacy Ratio MA(BS)3' return. Details can be found in footnote 1 under table 17 of this document.
- 4 Any segment which constitutes less than 10% of total gross loans and advances to customers is disclosed on an aggregated basis under the category 'Others'

The geographical information shown below has been classified by the location of the principal operations of the subsidiary and by the location of the branch responsible for advancing the funds.

Table 23: CRB5 - Impaired exposures and related allowances and write-offs by geographical location

		Gross	Gross				Impairment provisions	Advances
		loans and	impaired	Overdue			(charged to) /	written off
		advances to	loans and	loans and	Specific	Collective	released from	during
		customers 1	advances	advances ²	provisions ³	provisions ³	profit and loss	the year
As at 31 Dec 2020	Footnote	HK\$m	HK\$m	HK\$m	HK\$m	HK\$m	HK\$m	HK\$m
Hong Kong SAR		855,574	4,708	1,766	(1,381)	(2,747)	(2,214)	1,038
China		78,620	967	429	(628)	(380)	(394)	28
Others	4	17,118	49	49	(35)	(9)	(1)	25
Total		951,312	5,724	2,244	(2,044)	(3,136)	(2,609)	1,091

- 1 The amounts shown in column 'Gross loans and advances to customers' represent loans and advances to customers gross of provisions in the financial statements under the regulatory consolidation scope and therefore is different from the 'Gross loans and advances to customers' shown in table 26 which is prepared on accounting consolidation basis. The difference of total gross loans of HK\$1,358m represents the Bank's loans and advances to the Group's subsidiaries which are outside the regulatory scope of consolidation.
- 2 The amounts shown in column 'Overdue loans and advances' represent gross loans and advances to customers that were overdue for more than 3 months as at 31 December 2020.
- 3 The classification of specific and collective provisions follows the treatment specified in the completion instructions of the HKMA 'Capital Adequacy Ratio MA(BS)3' return. Details can be found in footnote 1 under table 17 of this document.
- 4 Any segment which constitutes less than 10% of total gross loans and advances to customers is disclosed on an aggregated basis under the category 'Others'.

Past due unimpaired exposures are those loans where customers have failed to make payments in accordance with the contractual terms of their facilities. Exposures past due for more than 90 days are considered impaired.

T 11 04 CDD(
Table 74. (RR6 -	. A onno analy	sis of accoun	ting nast due	unimpaired	evnosures
Table 24: CRB6 –	riging analy	ois of accoun	ung past auc	ummpanea	caposures

As at 31 Dec 2020	Up to 29 days HK\$m	30- 59 days HK\$m	60- 89 days HK\$m	Total HK\$m
Loans and advances to customers held at amortised cost:				
- Personal	3,110	428	196	3,734
- Corporate and commercial	723	52	44	819
- Non-bank financial institutions	1	-	-	1
Total	3,834	480	240	4,554

Table 25: CRB7 – Breakdown of renegotiated loans between impaired and unimpaired

	31 Dec
	2020
	HK\$m
Impaired	341
Unimpaired	-
Total	341

Loans and advances to customers

Tables 26 to 28 analyse the loans and advances to customers by geographical locations, by industries, and by which are overdue and rescheduled on an accounting consolidation basis. The accounting consolidation basis is different from the regulatory consolidation basis as explained in the 'Basis of consolidation' section of this document.

The following analysis of loans and advances to customers by geographical areas is in accordance with the location of counterparties, after recognised risk transfer.

Table 26: Loans and advances to customers by geographical location

	_				
		Hong Kong			
		SAR	China	Others	Total
As at 31 Dec 2020	Footnote	HK\$m	HK\$m	HK\$m	HK\$m
Gross loans and advances to customers	1	817,172	105,722	27,060	949,954

¹ The amounts shown in column 'Gross loans and advances to customers' represent the loans and advances to customers gross of provisions in the financial statements on the accounting consolidation basis and therefore is different from the 'Gross loans and advances to customers' shown in tables 22 and 23 which are prepared under the regulatory consolidation scope. The difference of total gross loans of HK\$1,358m represents the Bank's loans and advances to the Group's subsidiaries which are outside the regulatory scope of consolidation.

The analysis of gross loans and advances to customers by industry sector based on categories and definitions contained in the 'Quarterly Analysis of Loans and Advances and Provisions - (MA(BS)2A)' return submitted to the HKMA is as follows:

Table 27: Gross loans and advances to customers by industry sector

• •		
	Gross loans and	% of gross advances
	advances	covered by collateral
As at 31 Dec 2020	HK\$m	%
Industrial, commercial and financial sectors		
- property development	71,868	42.9%
- property investment	154,338	88.3%
- financial concerns	3,201	25.2%
- stockbrokers	11	0.0%
- wholesale and retail trade	32,041	57.5%
- manufacturing	24,077	40.0%
- transport and transport equipment	14,617	59.9%
- recreational activities	976	55.1%
- information technology	9,973	6.0%
- other	92,614	71.9%
Individuals		
- loans and advances for the purchase of flats under the		
Government Home Ownership Scheme,		
Private Sector Participation Scheme and		
Tenants Purchase Scheme	33,806	100.0%
- loans and advances for the purchase of other		
residential properties	226,996	100.0%
- credit card loans and advances	25,951	0.0%
- other	30,274	46.1%
Gross loans and advances for use in Hong Kong	720,743	75.9%
Trade finance	26,636	35.6%
Gross loans and advances for use outside Hong Kong	202,575	34.6%
Gross loans and advances to customers	949,954	66.0%

Collateral includes any tangible security that carries a fair market value and is readily marketable. This includes (but is not limited to) cash and deposits, stocks and bonds, mortgages over properties and charges over other fixed assets such as plant and equipment. Where collateral values are greater than gross loans and advances to customers, only the amount of collateral up to the gross loans and advances is included.

Loans and advances to customers that are more than three months overdue and their expression as a percentage of gross loans and advances to customers are as follows:

Table 28: Overdue loans and advances to customers

A+ 21 D 2020	1117¢	0/
As at 31 Dec 2020	HK\$m	%
Gross loans and advances which have been overdue with respect to		
either principal or interest for periods of:		
- more than three months but not more than six months	591	0.06%
- more than six months but not more than one year	703	0.07%
- more than one year	950	0.10%
Total	2,244	0.24%
of which:		
- specific provisions	(895)	
- covered portion of overdue loans and advances	1,047	
- uncovered portion of overdue loans and advances	1,197	
- current market value of collateral held against the		
covered portion of overdue loans and advances	2,210	
Rescheduled loans and advances to customers	140	0.01%

Collateral held with respect to overdue loans and advances is mainly residential properties and commercial properties. The current market value of residential properties and commercial properties were HK\$1,548m and HK\$517m respectively.

Loans and advances with a specific repayment date are classified as overdue when the principal or interest is overdue and remains unpaid at period-end. Loans and advances repayable by regular instalments are treated as overdue when an instalment payment is overdue and remains unpaid at period-end. Loans and advances repayable on demand are classified as overdue either when a demand for repayment has been served on the borrower but repayment has not been made in accordance with the demand notice, or when the loans and advances have remained continuously outside the approved limit advised to the borrower for more than the overdue period in question.

Rescheduled loans and advances to customers are those loans and advances that have been rescheduled or renegotiated for reasons related to the borrower's financial difficulties. This will normally involve the granting of concessionary terms and resetting the overdue account to non-overdue status. Rescheduled loans and advances to customers are stated net of any advances which have subsequently become overdue for more than three months and which are included in 'Overdue loans and advances to customers'.

The amount of repossessed assets as at 31 December 2020 was HK\$28m.

Overdue and rescheduled amounts relating to placings with and advances to banks and other assets

There were no impaired, overdue or rescheduled placings with and advances to banks, nor rescheduled other assets as at 31 December 2020.

Off-balance sheet exposures other than derivative transactions

The following table gives the nominal contract amounts and RWA of contingent liabilities and commitments. The information is consistent with that in the 'Capital Adequacy Ratio' return required to be submitted to the HKMA by the Group. The return is prepared on a consolidated basis as specified by the HKMA under the requirement of section 3C(1) of the BCR.

For accounting purposes, acceptances and endorsements are recognised on the balance sheet in 'Other assets'. For the purpose of the BCR, acceptances and endorsements are included in the capital adequacy calculation as if they were contingencies.

Table 29: Off-balance sheet exposures other than derivative transactions	
·	31 Dec
	2020
	HK\$m
Contract amounts	
Direct credit substitutes	3,482
Transaction-related contingencies	9,612
Trade-related contingencies	18,978
Commitments that are unconditionally cancellable without prior notice	426,406
Commitments which have an original maturity of not more than one year	2,561
Commitments which have an original maturity of more than one year	59,846
Total	520,885
RWA	53,702

Credit risk under internal ratings-based approach

Qualitative disclosures related to internal models for measuring credit risk under IRB approach

(i) Nature of exposures within each IRB class

The Group uses advanced IRB approach for the majority of its business under the approval granted by the HKMA. This includes the following major classes of non-securitisation exposures:

- Corporate exposures including exposures to global large corporates, local large corporates, middle market corporates and small and medium-sized enterprises ('SME'), non-bank financial institutions and specialised lending.
- Sovereign exposures, including exposures to central governments, central monetary institutions, multilateral development banks and relevant international organisations.
- Bank exposures including exposures to banks and regulated securities firms.
- Retail exposures, including residential mortgages, qualifying revolving retail exposures, other retail exposures and retail SME exposures.
- Equity exposures.
- Other exposures, including cash items and other assets.

At 31 December 2020, the portion of exposure at default (EAD') and RWA within the Group covered by IRB approach are summarised in the following table. The remaining portions not covered by IRB approach are under STC approach.

Table 30: CRE1 - Percentage of total EAD and RWA covered by IRB approach

	Percentage of total EAD under IRB	Percentage of total RWA under IRB
Portfolio	approach	approach
Corporate exposures (includes SME and other corporates and specialised lending)	93%	87%
Sovereign exposures	100%	100%
Bank exposures (including securities firms)	100%	100%
Residential mortgage loans	90%	84%
Other retail exposures	94%	82%
Equity exposures	100%	100%
Other exposures	100%	100%

The above table covers credit risk for non-securitisation exposures excluding counterparty credit risk. For counterparty credit risk, the percentage of total RWA covered by IRB approach is 93% for corporate exposures and 100% for sovereign and bank exposures.

(ii) The internal rating system

Exposure to credit risk arises from a very wide range of customers and product types, and the risk rating systems in place to measure and monitor these risks are correspondingly diverse.

Credit risk exposures are generally measured and managed in portfolios of either distinct customer types or product categories. Risk rating systems for the former are designed to assess the default propensity of, and loss severity associated with, customers who are typically managed as individual relationships; these rating systems tend to have a higher subjective content. Risk rating systems for the latter are generally more analytical, applying techniques such as behavioural analysis across product portfolios comprising large numbers of homogeneous transactions.

A fundamental principle of the Group's policy and approach is that analytical risk rating systems and scorecards are decision tools facilitating management, serving ultimately judgmental decisions for which individual approvers are accountable. In the case of automated decision-making processes, accountability rests with those responsible for the parameters built into those processes/systems and the controls surrounding their use. For distinct customers, the credit process requires at least annual review of facility limits granted. Review may be more frequent, as required by circumstances

Group standards govern the process through which risk rating systems are initially developed, judged fit for purpose, approved and implemented; the conditions under which individual approvers can override analytical risk model outcomes; and the process of model performance monitoring and reporting. There is emphasis on an effective dialogue between business lines and risk management, appropriate independence of decision takers, and a good understanding and robust reflection on the part of senior management.

(iii) Application of IRB parameters

The Group's credit risk rating framework incorporates the probability of default ('PD') of a borrower and the loss severity, expressed in terms of EAD and loss given default ('LGD'). These measures are used to calculate both expected loss ('EL') and capital requirements, subject to any floors required by the HKMA. They are also used in conjunction with other inputs to inform rating assessments for the purpose of credit approval and many other risk management decisions. The narrative explanations that follow relate to the IRB advanced approaches, that is, IRB advanced for distinct customers and retail IRB for the portfolio managed retail business.

Table 31: CRE2 – Wholesale IRB credit risk models

Regulatory asset		Number of significant		Number of years loss	Regulatory
classes measured	Component	models		data	Floors
Central governments and central	PD	1	A shadow rating approach that includes macroeconomic and political factors, constrained with expert judgement.	>10	No
banks	LGD	1	An unsecured model built on assessment of structural factors that influence the country's long-term economic performance. For unsecured LGD, a floor of 45% is applied.	8	45% ¹
	EAD	1	A cross-classification model that uses both internal data and expert judgement, as well as information on similar exposure types from other asset classes.	8	EAD must be at least equal to the current utilisation of the balance at account level
Bank / Securities firm	PD	2	Statistical models that combine quantitative analysis on financial information with expert inputs and macroeconomic factors.	10	0.03%
	LGD	1	A quantitative model that produces both downturn and expected LGD. Several securities types are included in the model to recognise collateral in the LGD calculation. For unsecured LGD, a floor of 45% is applied.	10	45% ²
	EAD	1	A quantitative model that assigns CCF taking into account product types and committed/uncommitted indicator to calculate EAD using current utilisation and available headroom.	10	EAD must be at least equal to the current utilisation of the balance at account level
Other Corporate / Small and medium sized corporates ³	PD	12	The corporate models use financial information, macroeconomic information and market-driven data, and is complemented by a qualitative assessment. The Non-Bank Financial Institution ('NBFI') models which are the predominantly statistical models that combines quantitative analysis on financial information with expert inputs.	>=10	0.03%
	LGD	1	Regional statistical models covering all corporates, developed using historical loss/recovery data and various data inputs, including collateral information, facility seniority and customer geography.	>10	No
	EAD	1	Regional statistical models covering all corporates, developed using historical utilisation information and various data inputs, including product type and nature of commitment.	>10	EAD must be at least equal to the current utilisation of the balance at account level

¹ LGD floor exempted for the People's Republic of China and Hong Kong Special Administrative Region

 $^{2\} LGD\ floor\ exempted\ for\ intra-group\ entities$

³ Excludes specialised lending exposures subject to supervisory slotting approach.

(iii) Application of IRB parameters (continued)

Table 32: CRE3 – Material retail IRB credit risk models

Regulatory asset classes measured	Component	Number of significant models	Model description and methodology	Number of years loss data	Regulatory Floors
Hong Kong - Hang Seng Personal	PD	1	Statistical model built on internal behavioural data and calibrated to a long-run default rate.	>10	0.03%
Residential Mortgages (Residential mortgage exposures)	LGD	3	1 component based model and 2 historical average models based on estimate of loss incurred over a recovery period derived from historical data with downturn LGD based on the worst observed default rate.	>10	LGD floor of 10% at portfolio level
-	EAD	1	Rule-based calculation based on current balance and estimated incurred interest which continues to be a conservative estimate for EAD.	>10	EAD must at least be equal to current balance
Hong Kong – Hang Seng Credit Cards	PD	1	Statistical model built on internal behavioural data and calibrated to a long-run default rate by segment.	>10	0.03%
(Qualifying revolving retail exposures and Other retail exposures	LGD	1	Statistical model based on forecasting the amount of expected future losses with downturn adjustment.	>10	
to individuals)	EAD	1	Statistical model which derives a credit limit utilization by segment which is used to determine the EAD.	>10	EAD must at least be equal to current balance
Hong Kong – Hang Seng Personal Loans	PD	1	Statistical model built on internal behavioural data and calibrated to a long-run default rate by segment.	>10	PD floor of 0.03%
(Other retail exposures to individuals)	LGD	1	Statistical model based on forecasting the amount of expected future losses with downturn adjustment.	> 10	
_	EAD	1	Rule-based calculation based on current balance and estimated incurred interest which continues to be a conservative estimate for EAD.	> 10	EAD must at least be equal to current balance

These measures are used to calculate expected loss and capital requirements. They are also used in conjunction with other inputs to form rating assessments for the purpose of credit approval and for risk management decisions.

PD models are developed using statistical estimation generally based on a minimum of five years of historical data. The modelling approach is typically hybrid. EAD models are also generally developed using at least five years of historical observations and typically adopt one of two approaches:

- Closed-end products without the facility for additional drawdowns, EAD is estimated as the outstanding balance of accounts at the time of observation with predicted interest and fees; or
- EAD for products with the facility for additional drawdowns is estimated as the outstanding balance of accounts at the time of observation plus a credit conversion factor applied to the undrawn portion of the facility.

LGD estimates have more variation, particularly in respect of the time period that is used to quantify economic downturn assumptions. The LGD models for retail exposures are developed based on the Group's internal loss and default experiences including recovery values for different types of collaterals for secured retail exposures such as residential mortgages; for unsecured retail exposures such as qualifying revolving retail exposures, LGD models are developed based on past recovery experiences, account behaviours and repayment ability.

(iv) Model Governance

Model governance is under the oversight of HSBC Group or HSBC Regional Model Oversight Forum ('HSBC Group MOF' or 'HSBC Regional MOF'). Wholesale Credit and Traded Risk MOF and Retail Risk ('Local MOFs') are established respectively in the Bank with comparable terms of reference as HSBC Group MOF or HSBC Regional MOF.

Local MOFs meet regularly and report to RMM. They are chaired by the Risk function, and its membership is drawn from Risk, Finance and Businesses. Its primary responsibilities are to oversee the framework for the management of model risk, bring a strategic approach to model-related issues across the Bank, and to oversee the governance of our risk rating models, their consistency, within the regulatory framework. Also, it identifies emerging risks for all aspects of the risk rating system, ensuring that model risk is managed within our risk appetite statement, and formally advises RMM / HSBC Group MOF / HSBC Regional MOF on any material model-related issues.

All new or materially changed IRB capital models require the HKMA and the Prudential Regulation Authority's ('PRA') approval and such models fall directly under the remit of Local MOFs and HSBC Group MOF or HSBC Regional MOF.

The approval of models/model changes is the responsibility of individual approvers. Model Owner/Technical Expert ensures that the model is technically sound, has been developed robustly and follows the relevant modelling policies, standards, internal and regulatory requirements. Whereas the Model User/Steward for the function ensures that the model makes sense to the business or function where it will be used and that the model satisfies the requirements from the business, function and regulators.

Compliance with the HSBC Group and local standards for model development, credit risk models validation and implementation are subject to an independent model review process led by the HSBC Independent Model Review team which is separated from the Risk Analytics functions that are responsible for the development, usage and management of models. The Independent Model Review team provides robust challenge to the modelling approaches used and ensures that the performance of those models is transparent and that their limitations are visible to key stakeholders.

HSBC Group Audit, local Internal Audit, or a comparable independent model review unit also conducts regular reviews of the risk rating model application by credit and business groups.

Table 33.1: CR6 – Credit risk exposures by portfolio and PD ranges – for IRB approach (Wholesale)	
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1401C 33.11. CRO	Credit Hisk Cap	osares of po	riono una	. D runges .	or new upp	roach (Wholes	,()					
	a	b	c	d	e	f	g	h	i	j	k	1
		•	•	EAD				•				
				post-credit								
		Off-		risk								
	Original	balance		mitigation								
	on-balance	sheet		('CRM')								
	sheet gross	exposures	Average	and post-	Average	Number of	Average	Average		RWA		
As at 31 Dec 2020	exposure	pre-CCF	CCF	CCF	PD	obligors	LGD	maturity	RWA	density	EL	Provisions^
PD scale	HK\$m	HK\$m	%	HK\$m	%		%	years	HK\$m	%	HK\$m	HK\$m
Sovereign	Піхфіп	Πικφιιι	70	Піхфііі	/0		/0	years	ΠΙΑΦΙΙΙ	/0	ΠΙΧΦΙΙΙ	Πικφιιι
0.00 to < 0.15	399,561			399,561	0.01	42	28.7	1.30	14,484	4	16	
0.15 to < 0.25	-			-	-		-	-				
0.25 to < 0.50	_			_	_	_	_		_		_	
0.50 to < 0.75	-	-		_	_	_	_		_	_	_	
0.75 to < 2.50	-	-		-	_	-	_		_	_	_	
2.50 to < 10.00	-	_		_		_					_	
10.00 to < 100.00	-	_		_		_		_	-	-	_	
100.00 (Default)	-	-		-	-	-			-		-	
Sub-total	399,561	-		399,561	0.01	42	28.7	1.30	14,484	4	16	10
				,								
Bank												
0.00 to < 0.15	42,322	851	45.5	42,709	0.05	827	32.0	1.46	5,069	12	6	
0.15 to < 0.25	1,934	928	58.4	2,475	0.22	76	44.8	1.21	849	34	2	
0.25 to < 0.50	298	-		298	0.37	50	45.0	0.85	165	55	-	
0.50 to < 0.75	67	11	51.0	73	0.63	22	39.2	0.37	40	55	-	
0.75 to < 2.50	7	-		7	0.87	15	45.0	0.27	4	57	-	
2.50 to < 10.00	1	-	-	1	3.05	7	77.6	0.05	1	100	-	
10.00 to < 100.00	-	-	-	-	-	-	-	-	-	-	-	
100.00 (Default)	-	-		-	-	-		-	-	-	-	
Sub-total	44,629	1,790	52.2	45,563	0.06	997	32.8	1.44	6,128	13	8	2
Corporate – small-a												
0.00 to < 0.15	4,160	5,224	36.7	6,079	0.12	101	25.5	2.09	873	14	2	
0.15 to < 0.25	2,433	2,720	35.2	3,389	0.22	123	28.9	1.88	693	20	2	
0.25 to < 0.50	13,189	8,005	37.2	16,162	0.37	286	25.9	2.04	4,343	27	15	
0.50 to < 0.75	22,435	6,941	36.9	24,999	0.63	450	25.5	2.50	9,040	36	40	
0.75 to < 2.50	63,791	21,845	31.3	70,618	1.33	1,359	27.6	2.17	34,199	48	269	
2.50 to < 10.00	10,457	5,561	29.5	12,097	4.14	292	30.1	1.82	8,823	73	156	
10.00 to < 100.00	952	21	44.7	962	10.36	11	18.6	1.18	548	57	19	
100.00 (Default)	617			617	100.00	17	40.6	1.75	1,462	237	172	012
Sub-total	118,034	50,317	33.6	134,923	1.77	2,639	27.1	2.17	59,981	44	675	813
C												
Corporate – others	111 000	45 524	24.0	127 (5)	0.10	200	45.2	2.20	24 170	27	5.0	
$\frac{0.00 \text{ to} < 0.15}{0.15 \text{ to} < 0.25}$	111,800 39,349	45,534 25,873	34.8 37.5	127,656 49,062	0.10	389 256	45.2 42.3	2.28	34,170 20,163	27 41	56 46	
0.15 to < 0.25 0.25 to < 0.50	39,349 47,399	25,873	37.5	55,299		332	36.1	2.21	24,701	41	74	
0.23 to < 0.30 0.50 to < 0.75	48,398	28,897	25.4	55,738	0.37	421	38.1	1.71	31,712	57	134	
0.30 to < 0.75 0.75 to < 2.50	124,637	62,992	26.1	141,063	1.34	1,281	34.0	1.77	101,537	72	640	
$\frac{0.75 \text{ to} < 2.50}{2.50 \text{ to} < 10.00}$	22,249	11,498	20.1	24,558	4.35	278	35.3	1.63	25,104	102	374	
10.00 to < 100.00	2,322	26	28.9	2,329	14.38	17	28.8	1.73	3,048	131	101	
100.00 (Default)	4,118	- 20	20.9	4,118	100.00	76	41.0	1.03	5,037	122	1,642	
Sub-total	400,272	200,616	29.7	459,823	1.78	3,050	38.8	1.97	245,472	53	3,067	3,079
	100,272	-00,010	47.1	.57,025	1170	5,050	20.0	1.71	, 2		2,007	5,017

$\textbf{BANKING DISCLOSURE STATEMENT} \ (unaudited) \ (continued)$

Table 33.2: CR6 – 0	Credit risk exp	osures by po	rtfolio and	PD ranges – f	or IRB appi	roach (Retail)						
	a	b	с	d	e	f	g	h	i	j	k	1
	•	Off-	•	·				•	•			-
	Original	balance		EAD								
	on-balance	sheet		post CRM								
	sheet gross	-	0	and post-	Average		Average	Average		RWA		
As at 31 Dec 2020	exposure	pre-CCF	CCF	CCF	PD	of obligors	LGD	maturity	RWA	density	EL	Provisions^
PD scale	HK\$m	HK\$m	%	HK\$m	%		%	years	HK\$m	%	HK\$m	HK\$m
Retail – qualifying r												
0.00 to < 0.15	10,469	162,270	39.4	74,443	0.07	1,786,809	105.3		3,382	5	53	
$\frac{0.15 \text{ to} < 0.25}{0.25 \text{ to} < 0.50}$	1,880	11,613	47.2	7,366	0.22	172,810	104.9		902 1,839	12 19	17 39	
0.23 to < 0.30 0.50 to < 0.75	3,399 2,008	17,565 3,688	34.8 54.4	9,508 4,013	0.40	186,578 55,704	103.1		1,051	26	24	
0.75 to < 2.50	5,201	10,292	36.1	8,914	1.43	87,255	101.2		4,445	50	129	
2.50 to < 10.00	3,301	2,746	66.7	5,131	4.78	48,943	100.7		5,991	117	247	
10.00 to < 100.00	1,329	370	158.4	1,915	32.25	16,544	99.2		3,647	190	593	
100.00 (Default)	79	-	-	79	100.00	885	93.8		121	153	65	
Sub-total	27,666	208,544	40.1	111,369	1.08	2,355,528	104.3		21,378	19	1,167	1,841
Retail – residential n	- 0 - I											
0.00 to < 0.15	182,964	1,461	100.0	184,425	0.08	55,214	19.5		40,481	22	31	
0.15 to < 0.25	33,585	268	100.0	33,853	0.18	27,000	17.9		6,852	20	11	
0.25 to < 0.50	472	4	100.0	476	0.35	129	17.4		89	19	-	
0.50 to < 0.75	20,121	160	100.0	20,281	0.53	8,826	17.4		4,077	20	19	
0.75 to < 2.50	14,493	114	100.0	14,607	0.93	13,859	16.8		3,235	22	23	
2.50 to < 10.00 10.00 to < 100.00	4,710 4,194	36	100.0	4,746	4.78 18.28	3,358 2,797	16.0 15.9		2,436 3,717	51 88	36 123	
100.00 (Default)	370	- 31	100.0	370	100.00	141	14.9		651	176	3	
Sub-total	260,909	2,074	100.0	262,983	0.70	111,324	18.9		61,538	23	246	
Sub total	200,707	2,074	100.0	202,703	0.70	111,524	10.7		01,550		240	
Retail – small busine	ess retail exposu	ires										
0.00 to < 0.15	2,237	7	100.0	2,244	0.08	927	8.3		40	2	-	
0.15 to < 0.25	369	2	100.0	371	0.19	119	15.7		24	6	-	
0.25 to < 0.50	194	1	100.0	195	0.48	44	16.8		23	12	-	
0.50 to < 0.75	334	-	-	334	0.55	144	0.8		2	1	-	
0.75 to < 2.50	395	2	100.0	397	1.23	79	24.8		108	27	1	
2.50 to < 10.00	453	1	100.0	454	6.10	165	7.4		53	12	3	
10.00 to < 100.00	-	-	-	-	-	-	-		-	-	-	
100.00 (Default)	4		-	4	100.00	2	10.2		4	100		
Sub-total	3,986	13	100.0	3,999	1.04	1,480	10.3		254	6	4	
Other retail expecus	os to individual	c.										
Other retail exposure 0.00 to < 0.15	3,073	2,469	10.5	3,332	0.08	25,979	15.0		121	4		
0.00 to < 0.15 0.15 to < 0.25	1,525	2,469	16.2	1,997	0.08	23,530	16.0		132	7	1	
0.15 to < 0.25 0.25 to < 0.50	4,378	1,189	18.8	4,601	0.32	48,150	97.0		2,462	54	14	
0.50 to < 0.75	1,859	160	39.1	1,921	0.58	9,678	75.8		1,152	60	9	
0.75 to < 0.75	6,592	1,299	30.4	6,987	1.38	32,282	63.9		5,067	73	64	
2.50 to < 10.00	2,665	185	36.1	2,732	4.63	15,130	77.8		3,108	114	99	
10.00 to < 100.00	672	47	50.6	696	19.53	5,502	89.9		1,305	188	125	
100.00 (Default)	49	_		49	100.00	476	54.0		100	204	21	
Sub-total	20,813	8,254	18.2	22,315	1.98	160,727	62.7		13,447	60	333	349
Table 33.3: CR6 – Cro	edit risk exposur	es by portfolio	and PD ran	ges – for IRB a	pproach (To	tal)						
		, ,										
	a	b Off	c	d	e	ť	g	h	i	j	k	I
	Ominina	Off-		EAD								
	Original	balance		EAD								
	on-balance	sheet	A =	post CRM	A	NT 1	A	A		D117.4		
A 21 D 2020	sheet gross	-	0	and post-	Average		_	Average	D117 4	RWA	TO T	Duoni-i
As at 31 Dec 2020	exposure	pre-CCF	CCF	CCF	PD	of obligors		maturity*		density		Provisions^
	HK\$m	HK\$m	%	HK\$m	%		%	years	HK\$m	%	HK\$m	HK\$m
Total (all portfolios)	1,275,870	471,608	34.9	1,440,536	0.98	2,635,787	36.4	1.72	422,682	29	5,516	6,094

^{*} The average maturity is relevant to wholesale portfolios only.
^ Provisions in this table represent the eligible provisions as defined under Division 1, Part 6 of the BCR which include the regulatory reserves for general banking risks and the impairment allowances reported under IRB approach.

Table 34: CR10 – Specialised lending under supervisory slotting criteria approach – other than high-volatility commercial real estate ('HVCRE')

As at 31 Dec	2020	a	b	c	d(i)	d(ii)	d(iii)	d(iv)	d(v)	e	f
	_			_]	EAD amou	ınt			
Sum aurica un		On- balance sheet exposure	Off- balance sheet exposure	Supervi- sory risk- weight	Project finance	Object finance	Commo- dities finance	Income- producing real estate			Expected loss
Supervisory Rating		amount	amount	('SRW')	(' PF ')	('OF')	('CF')	('IPRE')	Total	RWA	amount
Grade	Remaining Maturity	HK\$m	HK\$m	%	HK\$m	HK\$m	HK\$m	HK\$m	HK\$m	HK\$m	HK\$m
Strong^	Less than 2.5 years	8,147	717	50%	-	-	-	8,452	8,452	4,226	-
Strong	Less than 2.5 years	1,724	457	70%	-	-	-	1,890	1,890	1,323	8
Strong	Equal to or more than 2.5 years	7,405	1,611	70%	-	-	-	8,020	8,020	5,614	32
Good^	Less than 2.5 years	2,005	45	70%	-	-	-	2,024	2,024	1,417	8
Good	Less than 2.5 years	4,044	1,601	90%	-	-	-	4,628	4,628	4,166	37
Good	Equal to or more than 2.5 years	1,391	626	90%	-	-	-	1,619	1,619	1,457	13
Satisfactory		-	-	115%	-	-	-	-	_	-	-
Weak		-	-	250%	-	-	-	-	-	-	-
Default		-	-	0%	-	-	-	-	-	-	-
Total		24,716	5,057		-	-	-	26,633	26,633	18,203	98

[^] Use of preferential risk-weights.

Table 35: CR10 – Equity exposures under the simple risk-weight method

As at 31 Dec 2020	a	b	c	d	e
	On-balance sheet exposure amount	Off-balance sheet exposure amount	SRW	EAD amount	RWA
Categories	HK\$m	HK\$m	%	HK\$m	HK\$m
Publicly traded equity exposures	-	-	300%	-	-
All other equity exposures	6,720	-	400%	6,720	26,879
Total	6,720	-		6,720	26,879

Credit risk under standardised approach

The standardised approach is applied where exposures do not qualify for use of an IRB approach and/or where an exemption from IRB has been granted. The standardised approach requires banks to use risk assessments prepared by External Credit Assessment Institutions (ECAI) to determine the risk weightings applied to rated counterparties.

The Group uses the following ECAIs to calculate its capital adequacy requirements under the STC approach prescribed in the BCR:

- Fitch Ratings
- Moody's Investors Service
- Standard & Poor's Ratings Services

Where exposures have been rated by the above-mentioned ECAIs, they are categorised under the following class of exposures:

- Sovereign exposures
- Public sector entity ('PSE') exposures
- Bank exposures
- Securities firm exposures
- Corporate exposures
- Collective investment scheme ('CIS') exposures

The process used to map ECAIs issue ratings or ECAIs issue specific ratings in the Group's banking book is consistent with those prescribed in the Part 4 of the BCR.

Tal	ole 36: CR5 – Credit risk exposure	s by asset c	lasses and	oy risk wei	ghts – for S	TC approacl	h					
	Г	a	b	с	d	e	f	g	h	ha	i	j
As	at 31 Dec 2020											Total credit risk exposures amount (post CCF and
	Risk weight	0% HK\$m	10% HK\$m	20% HK\$m	35% HK\$m	50% HK\$m	75% HK\$m	100% HK\$m	150% HK\$m	250% HK\$m	Others HK\$m	post CRM) HK\$m
	Exposure class	HK\$m	нкэт	HK\$m	HK\$m	HK\$m						
1	Sovereign exposures	156							-			156
2	PSE exposures	25,928		4,955		8		_				30,891
2a	Of which: Domestic PSEs		_	1,117	_	-	_	_		-		1,117
2b	Of which: Foreign PSEs	25,928	_	3,838		8	_	_			_	29,774
3	Multilateral development bank			-,								.,
	exposures	_		-	_	_	_	_	_			-
4	Bank exposures	_		50		-		_	-			50
5	Securities firm exposures	-	-	-	-	1	-	-	-	-	-	1
6	Corporate exposures	-	-	145	-	754	-	46,724	-	-		47,623
7	CIS exposures	-	-	-		-		-	-	-		-
8	Cash items	-	-	-	-	-	-	-	-	-	-	-
9	Exposures in respect of failed											
	delivery on transactions entered											
	into on a basis other than a											
	delivery-versus-payment basis	-		-	-	-		-	-			-
10	Regulatory retail exposures	-	-	-	-	-	3,979	-	-	-	-	3,979
11	Residential mortgage loans	•	•	-	24,949	•	755	2,402	-	•		28,106
12	Other exposures which are not past											
	due exposures	-		-	•	-		4,154				4,154
13	Past due exposures	1	•	-	-	-	-	26	308	-	-	335
14	Significant exposures to											
	commercial entities		-		-	-			-	-	-	-
15	Total	26,085	-	5,150	24,949	763	4,734	53,306	308	-	-	115,295

Credit risk mitigation

The Group's approach when granting credit facilities is on the basis of capacity to repay, rather than primarily rely on credit risk mitigation. Depending on a customer's standing and the type of product, facilities may be provided on unsecured basis. Nevertheless, mitigation of credit risk is an important aspect of effective management and takes in many forms.

The Group's general policy is to promote the use of credit risk mitigation, justified by commercial prudence and good practice as well as capital efficiency. Policies covering the acceptability, structuring, terms, control and valuation with regard to different types of collateral security are established to ensure that they are supported by empirical evidence and continue to fulfil their intended purpose.

Concentration of credit risk exists when changes in geographic, economic or industry factors similarly affect groups of counterparties whose aggregate credit exposure is material in relation to the Group's total exposures. The Group's portfolio of financial instrument is diversified along geographic, industry and product sectors.

Collateral

The Group has implemented guidelines on the acceptability of specific classes of collateral or credit risk mitigation, and determined the valuation parameters. Such parameters are established prudently and are reviewed regularly in light of changing market environment and empirical evidence. Security structures and legal covenants are subject to regular review to ensure that they continue to fulfil their intended purpose and remain in line with local market practice.

While collateral is an important mitigant to credit risk, it is the Group's policy to establish that loans are within the customer's capacity to repay rather than to rely excessively on security. Facilities may be granted on unsecured basis depending on the customer's standing and the type of product. The principal collateral types are as follows:

- in the personal sector, charges over the properties, securities, investment funds and deposits;
- in the commercial and industrial sector, charges over business assets such as properties, stock, debtors, investment funds and deposits; and
- in the commercial real estate sector, charges over the properties being financed.

Repossessed assets are non-financial assets acquired in exchange for loans in order to achieve an orderly realisation, and are reported in the balance sheet within 'Other assets' at the lower of fair value (less costs to sell) and the carrying amount of the loan (net of any impairment allowance). If excess funds arise after the debt has been repaid, they are made available either to repay other secured lenders with lower priority or are returned to the customer. The Group does not generally occupy repossessed properties for its business use.

Collateral held as security for financial assets other than loans and advances is determined by the nature of the instrument. Debt securities, treasury and other eligible bills are generally unsecured.

Credit Risk Mitigation under IRB Approach

The main types of recognised collateral taken by the Group are those as stated in section 80 of the BCR, including (but not limited to) cash on deposit, gold bullion, equities listed in a main index and/or a recognised exchange, collective investment schemes, various recognised debt securities, residential, industrial and commercial property, etc.

The Group's policy provides that netting is only to be applied where it has the legal right to do so. Consistent with the BCR, only bilateral netting arrangements are included for capital adequacy credit risk mitigation calculation.

In terms of the application within IRB approach, credit risk mitigants are considered in two broad categories: first, those which reduce the intrinsic PD of an obligor and therefore operate as adjustments to PD estimation, and second, those which affect estimated recoverability of obligations and require adjustment of LGD. The first includes, for example, full parental or group company guarantees; the second, collateral security of various kinds such as cash, equity, properties, fixed assets such as motor vehicles, plant and machinery, stock and debtors, bank and sovereign guarantees, etc.

Credit Risk Mitigation under STC Approach

As stated in sections 98 and 99 of the BCR, certain guarantees and credit derivative contracts are recognised for credit risk mitigation purposes. The main types of guarantees are from sovereigns, corporate and banks. With corporate guarantees, in order for it to be recognised as a credit risk mitigants, it must have a credit rating of A- or better by Standard & Poor's Ratings Services, Fitch Ratings or a credit rating of A3 or better by Moody's Investors Service.

Table 37: CR3 – Overview of recognised credit risk mitigation

	a	b1	b	d	f
			Exposures		Exposures secured
	Exposures		secured by	Exposures secured	by recognised
	unsecured:	Exposures to be	recognised	by recognised	credit derivative
	carrying amount	secured	collateral	guarantees	contracts
As at 31 Dec 2020	HK\$m	HK\$m	HK\$m	HK\$m	HK\$m
1 Loans	285,606	710,222	587,220	123,002	-
2 Debt securities	424,579	906	-	906	-
3 Total	710,185	711,128	587,220	123,908	-
4 of which: Defaulted	1,510	2,170	2,081	89	-

Table 38: CR7 – Effects on RWA of recognised credit derivative contracts used as recognised credit risk mitigation – for IRB approach

	a	b
	Pre-credit	Actual
	derivatives RWA	RWA
As at 31 Dec 2020	HK\$m	HK\$m
1 Corporate – Specialised lending under supervisory slotting criteria approach (project finance)	-	-
2 Corporate – Specialised lending under supervisory slotting criteria approach (object finance)	-	-
3 Corporate – Specialised lending under supervisory slotting criteria approach (commodities finance)	-	-
4 Corporate – Specialised lending under supervisory slotting criteria approach (income-producing real estate)	18,203	18,203
5 Corporate – Specialised lending (high-volatility commercial real estate)	-	-
6 Corporate – Small-and-medium sized corporates	59,981	59,981
7 Corporate – Other corporates	245,472	245,472
8 Sovereigns	11,153	11,153
9 Sovereign foreign public sector entities	-	-
10 Multilateral development banks	3,331	3,331
11 Bank exposures – Banks	5,216	5,216
12 Bank exposures – Securities firms	912	912
13 Bank exposures – Public sector entities (excluding sovereign foreign public sector entities)	-	-
14 Retail – Small business retail exposures	254	254
15 Retail – Residential mortgages to individuals	60,362	60,362
16 Retail – Residential mortgages to property-holding shell companies	1,176	1,176
17 Retail – Qualifying revolving retail exposures	21,378	21,378
18 Retail – Other retail exposures to individuals	13,447	13,447
19 Equity – Equity exposures under market-based approach (simple risk-weight method)	26,879	26,879
20 Equity – Equity exposures under market-based approach (internal models method)	-	-
21 Equity – Equity exposures under PD/LGD approach (publicly traded equity exposures held for		
long-term investment)	-	-
22 Equity – Equity exposures under PD/LGD approach (privately owned equity exposures held for		
long-term investment)	-	-
23 Equity – Equity exposures under PD/LGD approach (other publicly traded equity exposures)	-	-
24 Equity – Equity exposures under PD/LGD approach (other equity exposures)	-	-
25 Equity – Equity exposures associated with equity investments in funds (CIS exposures)	-	-
26 Other – Cash items	3,782	3,782
27 Other – Other items	39,311	39,311
28 Total (under the IRB calculation approaches)	510,857	510,857

There is no effect in RWA, as the Group does not have credit derivative contracts used as recognised credit risk mitigation.

Table 39: CR4 – Credit risk exposures and effects of recognised credit risk mitigation – for STC approach

		a	b	С	d	e	f
		Exposures and pre	•	Exposures and post		RWA and R	WA density
		On-balance	Off-balance	On-balance	Off-balance		
As	at 31 Dec 2020	sheet amount	sheet amount	sheet amount	sheet amount	RWA	RWA density
		HK\$m	HK\$m	HK\$m	HK\$m	HK\$m	%
	Exposure classes						
1	Sovereign exposures	-	-	156	-	-	-
2	PSE exposures	30,766	300	30,766	125	995	3
2a	Of which: Domestic PSEs	992	300	992	125	223	20
2b	Of which: Foreign PSEs	29,774	-	29,774	-	772	3
3	Multilateral development bank exposures	-	-	-	-	-	-
4	Bank exposures	50	-	50	-	10	20
5	Securities firm exposures	1	-	1	-	-	-
6	Corporate exposures	48,435	23,113	45,589	2,034	47,132	99
7	CIS exposures	-	-	-	-	-	-
8	Cash items	-	-	-	-	-	-
9	Exposures in respect of failed delivery on transactions entered into on a basis other than a delivery-versus-payment basis	-	-	-	-	-	-
10	Regulatory retail exposures	4,864	10,062	3,973	6	2,984	75
11	Residential mortgage loans	28,158	3,298	28,105	1	11,700	42
12	Other exposures which are not past due exposures	11,223	7,447	4,030	124	4,154	100
13	Past due exposures	335	-	335	-	488	146
14	Significant exposures to commercial entities	-	-	-	-	-	-
15	Total	123,832	44,220	113,005	2,290	67,463	59

Remark:

Exposure pre-CCF and pre-CRM is reported under obligor's corresponding exposure class. Where the exposure is covered by a guarantee, the credit protection covered portion of the exposure is reported under the exposure class of credit protection provider in columns (c) & (d).

Model performance

The disclosure covers wholesale and retail models which have been approved by regulators. It validates the PD estimation by comparing the PD estimated by IRB Models against actual default experience. It shows our IRB models are generally conservative.

Table 40.1: CR9 – Back-testing of PD per portfolio – for IRB approach (Wholesale)

a	b		c		d	e	f		g	h	i
	•						Number of ol	oligors ^{2,3}		of which:	Average
		External	External							new	historical
		rating	rating	External rating		Arithmetic			Defaulted	defaulted	annual
		equivalent	equivalent	equivalent	Weighted	_	Beginning of		obligors in	obligors in	default
Portfolio	PD Range	(S&P)	(Moody's)	(Fitch)	average PD ¹	by obligors ¹	the year	the year	the year	the year	rate
As at 31 Dec	2020				%	%					%
Sovereign	0.00 to < 0.15	AAA to BBB	Aaa to Baa2	AAA to BBB	0.01	0.01	20	24	-	-	-
	0.15 to < 0.25	BBB-	Baa3	BBB-	-	-	-	-	-	-	-
	0.25 to < 0.50	BBB-	Baa3	BBB-	-	-	-	-	-	-	-
	0.50 to < 0.75	BB+ to BB	Ba1 to Ba2	BB+ to BB	-	-	-	-	-	-	-
	0.75 to < 2.50	BB- to B+	Ba3 to B2	BB- to B-	-	-	-	-	-	-	-
	2.50 to < 10.00	B to B-	B2 to Caa1	CCC+ to CCC	-	-	-	-	-	-	-
	10.00 to < 100.00	B- to C	Caa1 to C	CCC to C	-	-	-	-	-	-	-
Bank	0.00 to < 0.15	AAA to A-	Aaa to Baa1	AAA to BBB+	0.04	0.06	61	55	-	•	-
	0.15 to < 0.25	BBB+	Baa2	BBB	0.22	0.22	8	6	-	-	-
	0.25 to < 0.50	BBB	Baa3	BBB-	0.37	0.37	4	5	-	-	-
	0.50 to < 0.75	BBB-	Baa3	BBB-	0.63	0.63	3	5	-	-	-
	0.75 to < 2.50	BB+ to BB-	Ba1 to B1	BB+ to B+	0.89	0.95	4	2	-	-	-
	2.50 to < 10.00	B+ to B-	B2 to Caa1	B to CCC+	-	-	-	1	-	-	-
	10.00 to < 100.00	CCC+ to C	Caa1 to C	CCC to C	-	-	-	-	-	-	-
Corporate -	0.00 to < 0.15	AAA to A-	Aaa to Baa1	AAA to BBB+	0.08	0.11	101	75	-	-	-
small-and-	0.15 to < 0.25	BBB+	Baa2	BBB	0.22	0.22	170	110	-	-	-
medium	0.25 to < 0.50	BBB	Baa3	BBB-	0.37	0.37	281	232	2	-	0.53
sized	0.50 to < 0.75	BBB-	Baa3	BBB-	0.63	0.63	402	371	-	-	0.05
corporates	0.75 to < 2.50	BB+ to BB-	Ba1 to B1	BB+ to B+	1.32	1.44	1,161	1,204	3	-	0.25
	2.50 to < 10.00	B+ to B-	B2 to Caa1	B to CCC+	3.91	3.85	192	265	-	-	1.01
	10.00 to < 100.00	CCC+ to C	Caa1 to C	CCC to C	12.47	13.86	7	9	1	-	24.29
Corporate -	0.00 to < 0.15	AAA to A-	Aaa to Baa1	AAA to BBB+	0.09	0.10	218	190	-	-	-
others ⁴	0.15 to < 0.25	BBB+	Baa2	BBB	0.22	0.22	228	167	4	-	0.50
	0.25 to < 0.50	BBB	Baa3	BBB-	0.37	0.37	276	245	4	1	0.29
	0.50 to < 0.75	BBB-	Baa3	BBB-	0.63	0.63	300	301	-	-	0.18
	0.75 to < 2.50	BB+ to BB-	Ba1 to B1	BB+ to B+	1.45	1.50	961	956	-	-	0.63
	2.50 to < 10.00	B+ to B-	B2 to Caa1	B to CCC+	3.87	3.95	194	204	12	-	2.36
	10.00 to < 100.00	CCC+ to C	Caa1 to C	CCC to C	10.01	10.38	8	6	-	-	2.22

¹ The weighted average PD% and the arithmetic average PD% by obligors are based on the position at the beginning of the year.

² The number of obligors represents the obligor rated by key wholesale IRB models directly.

³ The number of obligors on corporate counterparty is being reported at counterparty level, while the number of obligors on Multilateral Development Bank (grouped under Sovereign portfolio) and Bank are being reported at entity level. Sovereigns are reported at country level based on local currency and foreign currency ratings.

⁴ Specialised lending exposures are excluded.

Table 40.2: CR9 – Back-testing of PD per portfolio – for IRB approach (Retail)

a	b	С	d	e	f		g	h	i
					Number of	obligors ²		of which:	Average
								new	historical
				Arithmetic			Defaulted	defaulted	annual
		External rating	Weighted	_	Beginning of	End of	obligors in	obligors in	default
Portfolio	PD Range	equivalent**	average PD ¹	by obligors ¹	the year	the year	the year	the year	rate
As at 31 Dec 2020			%	%					%
Retail – QRRE	0.00 to < 0.15		0.07	0.07	1,826,556	1,899,267	831	10	0.04
	0.15 to < 0.25		0.22	0.22	182,548	181,281	195	6	0.10
	0.25 to < 0.50		0.40	0.40	217,559	197,314	403	2	0.17
	0.50 to < 0.75		0.60	0.59	61,900	58,070	255	6	0.36
	0.75 to < 2.50		1.44	1.36	248,750	223,411	1,476	15	0.54
	2.50 to < 10.00		4.75	4.61	82,847	70,155	2,163	12	2.39
	10.00 to < 100.00		28.65	34.01	23,501	18,559	2,985	-	11.54
Retail - residential mortgage	0.00 to < 0.15		0.09	0.10	53,736	56,173	19	1	0.03
exposures	0.15 to < 0.25		0.18	0.17	28,272	27,587	10	-	0.04
	0.25 to < 0.50		0.34	0.34	171	137	-	-	0.07
	0.50 to < 0.75		0.53	0.53	9,141	9,012	5	-	0.21
	0.75 to < 2.50		0.94	0.95	15,140	14,322	23	-	0.21
	2.50 to < 10.00		4.74	4.75	3,461	3,499	20	-	1.08
	10.00 to < 100.00		16.80	16.88	3,049	2,920	61	-	6.97
Retail – small business retail	0.00 to < 0.15		0.08	0.07	1,111	1,079	-	-	-
exposures	0.15 to < 0.25		0.19	0.19	166	133	-	-	-
	0.25 to < 0.50		0.49	0.49	49	60	-	-	-
	0.50 to < 0.75		0.59	0.57	214	167	-	-	-
	0.75 to < 2.50		1.32	1.32	62	101	-	-	-
	2.50 to < 10.00		5.60	5.52	220	203	3	-	0.27
	10.00 to < 100.00		-	-	-	-	-	-	-
Other retail exposures to	0.00 to < 0.15		0.08	0.08	14,284	13,999	4	-	0.02
individuals	0.15 to < 0.25		0.21	0.20	11,956	11,985	11	-	0.08
	0.25 to < 0.50		0.45	0.40	8,341	47,625	10	3	0.17
	0.50 to < 0.75		0.56	0.52	22,414	10,489	81	9	0.34
	0.75 to < 2.50		1.55	1.61	25,660	32,324	255	46	0.91
	2.50 to < 10.00		4.68	4.90	26,122	16,665	854	75	2.94
	10.00 to < 100.00		16.08	16.70	7,463	5,923	856	3	10.79

^{**} External rating equivalent is not applicable to retail exposures.

Note:

 $^{{\}it 1. The weighted average PD\% and the arithmetic average PD\% by obligors are based on the position at the beginning of the year.}$

 $^{2. \ \}textit{The number of obligors is based on account level information for all retail IRB portfolios}.$

Counterparty credit risk exposures

Counterparty credit risk management

Counterparty credit risk ('CCR') arises for derivatives and SFTs. It is calculated in both the trading and non-trading books, and is the risk that a counterparty may default before settlement of the transaction. CCR is generated primarily in our wholesale global businesses.

The Group uses current exposure method to calculate exposure value for CCR RWA. Under the approach, the EAD is calculated as current exposure plus regulatory add-ons.

The PFE measures used for CCR management are calibrated to the 95th percentile. The measures consider volatility, trade maturity and the counterparty legal documentation covering netting and collateral.

Limits for CCR exposures are assigned within the overall credit process. The credit risk function assigns a limit against each counterparty to cover derivatives exposure which may arise as a result of a counterparty default. The magnitude of this limit will depend on the overall risk appetite and type of derivatives and SFT trading undertaken with the counterparty.

Credit valuation adjustment

CVA represent the risk of loss as a result of adverse changes to the credit quality of counterparties in derivative transactions. The Group uses the standardised approach to calculate the CVA capital charge.

Collateral arrangements

Our policy is to revalue all traded transactions and associated collateral positions on a daily basis. An independent collateral management function manages the collateral process including pledging and receiving collateral and investigating disputes and non-receipts.

Eligible collateral types are controlled under a policy to ensure price transparency, price stability, liquidity, enforceability, independence, reusability and eligibility for regulatory purposes. A valuation 'haircut' policy reflects the fact that collateral may fall in value between the date the collateral was called and the date of liquidation or enforcement.

Credit ratings downgrade

A credit rating downgrade clause in a Master Agreement or a credit rating downgrade threshold clause in a Credit Support Annex ('CSA') is designed to trigger an action if the credit rating of the affected party falls below a specified level. These actions may include the requirement to pay or increase collateral, the termination of transactions by the non-affected party or the assignment of transactions by the affected party.

At 31 December 2020, the potential value of the additional collateral pertaining to International Swaps and Derivatives Association (ISDA') CSA downgrade thresholds that we would need to post with counterparties in the event of a one-notch or two-notch downgrade of our rating was nil.

Wrong-way risk

Wrong-way risk occurs when a counterparty's exposures are adversely correlated with its credit quality.

There are two types of wrong-way risk.

- General wrong-way risk occurs when the probability of counterparty default is positively correlated with general risk factors, for example, where a counterparty is resident and/or incorporated in a higher-risk country and seeks to sell a non-domestic currency in exchange for its home currency.
- Specific wrong-way risk occurs in self-referencing transactions. These are transactions in which exposure is driven by capital or financing instruments issued by the counterparty and occurs where exposure from the Bank's perspective materially increases as the value of the counterparty's capital or financing instruments referenced in the contract decreases. It is the Bank policy that specific wrong-way transactions are approved on a case-by-case basis.

We use a range of tools to monitor and control wrong-way risk, including requiring the business to obtain prior approval before undertaking wrong-way risk transactions outside pre-agreed guidelines. The Traded Risk functions are responsible for the control and monitoring process within an overarching HSBC framework and limit framework.

Central counterparties

While exchange traded derivatives have been cleared through Central counterparties ('CCP')'s for many years, recent regulatory initiatives designed to reduce systemic risk in the banking system are directing increasing volumes of over-the-counter ('OTC') derivatives to be cleared through CCPs.

To manage the significant concentration of risk in CCPs that results from this, the Bank has adopted a risk appetite framework to manage risk accordingly, at the level of individual CCP and globally. The Bank undertakes in-depth due diligence of the unique risks associated with these organisations.

Table 41: CCR1 – Analysis of counterparty default risk exposures (other than those to CCPs) by approaches

		a	b	c	d	e	f
		Replacement cost ('RC')	PFE	Effective expected positive exposure ('EPE')	Alpha (α) used for computing default risk exposure	Default risk exposure after CRM	RWA
As	at 31 Dec 2020	HK\$m	HK\$m	HK\$m		HK\$m	HK\$m
1	SA-CCR (for derivative contracts)	-	-		1.4	-	-
1a	CEM	7,164	8,927		N/A	16,091	4,094
2	IMM (CCR) approach			-	-	-	-
3	Simple Approach (for SFTs)					-	-
4	Comprehensive Approach (for SFTs)					1,222	131
5	VaR for SFTs					-	-
6	Total						4,225

Table 42: CCR2 – CVA capital charge

		a	b
		EAD post-CRM	RWA
As	at 31 Dec 2020	HK\$m	HK\$m
	Netting sets for which CVA capital charge is calculated by the advanced CVA method	-	-
1	(i) VaR (after application of multiplication factor if applicable)		-
2	(ii) Stressed VaR (after application of multiplication factor if applicable)		-
3	Netting sets for which CVA capital charge is calculated by the standardised CVA method	15,232	3,881
4	Total	15,232	3,881

Table 43: CCR8 – Exposures to CCPs

			L
		a	b
		Exposure after	
		CRM	RWA
As	at 31 Dec 2020	HK\$m	HK\$m
1	Exposures of the AI as clearing member or client to qualifying CCPs (total)		62
2	Default risk exposures to qualifying CCPs (excluding items disclosed in rows 7 to 10), of which:	1,111	22
3	(i) Over-the-counter ('OTC') derivative transactions	1,111	22
4	(ii) Exchange-traded derivative contracts	-	-
5	(iii) Securities financing transactions	-	-
6	(iv) Netting sets subject to valid cross-product netting agreements	-	-
7	Segregated initial margin	-	
8	Unsegregated initial margin	411	34
9	Funded default fund contributions	77	6
10	Unfunded default fund contributions	-	-
11	Exposures of the AI as clearing member or client to non-qualifying CCPs (total)		-
12	Default risk exposures to non-qualifying CCPs (excluding items disclosed in rows 17 to 20), of which:	-	-
13	(i) OTC derivative transactions	-	-
14	(ii) Exchange-traded derivative contracts	-	-
15	(iii) Securities financing transactions	-	-
16	(iv) Netting sets subject to valid cross-product netting agreements	<u> </u>	-
17	Segregated initial margin	-	
18	Unsegregated initial margin	-	-
19	Funded default fund contributions	-	-
20	Unfunded default fund contributions	-	

Table 44: CCR5 – Composition of collateral for counterparty default risk exposures (including those for contracts or transactions cleared through CCPs)

		a	b	c	d	e	f
		a	- J		u		CITOR
			Derivative co	ontracts			SFTs
						Fair value of	
		Fair value of	recognised	Fair va	lue of	recognised	
		collateral	received	posted co	llateral	collateral	Fair value of posted
		Segregated	Unsegregated	Segregated	Unsegregated	received	collateral
As	at 31 Dec 2020	HK\$m	HK\$m	HK\$m	HK\$m	HK\$m	HK\$m
1	Cash – domestic currency	-	-	-	177	-	2,329
2	Cash – other currencies	-	947	-	234	4,170	14,121
3	Domestic sovereign debt	-	-	-	-	-	-
4	Other sovereign debt	-	-	-	-	4,165	4,494
5	Government agency debt	-	-	-	-	-	-
6	Corporate bonds	-	-	-	-	9,098	103
7	Equity securities	-	-	-	-	-	-
8	Other collateral	-	-	-	-	3,709	1,317
9	Total	-	947	-	411	21,142	22,364

Counterparty default risk under internal ratings-based approach

Table 45: CCR4 – Counterparty default risk exposures (other than those to CCPs) by portfolio and PD range – for IRB approach

	a	b	c	d	e	f	g
	EAD post-		Number of		Average		8
As at 31 Dec 2020	CRM	Average PD		Average LGD	maturity	RWA	RWA density
PD scale	HK\$m	%	6	%	years	HK\$m	%
Sovereign		,,,		,,,	jeurs		,,
0.00 to < 0.15	159	0.02	1	45.0	1.00	9	
0.15 to < 0.25		-			-		
0.25 to < 0.50	_		-	_	_	-	
0.50 to < 0.75	-	_	-	_	_	-	
0.75 to < 2.50	-	-	-	_	_	-	
2.50 to < 10.00	-	_	-	_	-	-	
10.00 to < 100.00	_		-	_	-	-	
100.00 (Default)	-	_	-	_	-	-	,
Sub-total	159	0.02	1	45.0	1.00	9	6
		****					-
Bank							
0.00 to < 0.15	13,123	0.05	109	33.8	1.68	1,735	13
0.15 to < 0.25	558	0.22	13	44.5	0.93	227	41
0.25 to < 0.50	507	0.37	5	45.0	0.98	286	50
0.50 to < 0.75	78	0.63	2	45.0	0.34	51	60
0.75 to < 2.50	2	0.87	1	45.0	1.00	2	88
2.50 to < 10.00	2	4.20	1	45.0	1.00	3	149
10.00 to < 100.00	-	-	-	-	-	-	
100.00 (Default)	-	-	-	-	-	-	
Sub-total Sub-total	14,270	0.07	131	34.7	1.62	2,304	10
Corporates							
0.00 to < 0.15	1,268	0.08	25	33.8	2.11	291	23
0.15 to < 0.25	114	0.08	11	49.9	3.66	71	63
0.15 to < 0.25 0.25 to < 0.50	234	0.22	22	53.9	1.59	150	64
$\frac{0.23 \text{ to} < 0.30}{0.50 \text{ to} < 0.75}$	105		17	53.7	1.13	75	72
0.75 to < 0.75	895	0.63 1.61	57	57.5	1.13	1,049	117
$\frac{0.75 \text{ to} < 2.50}{2.50 \text{ to} < 10.00}$	62	4.56	18	55.8	1.05	1,049	
10.00 to < 100.00	- 02	4.50	- 18		1.05		169
•						-	
100.00 (Default) Sub-total	2.670	100.00	151	59.0 45.5	1.00	1 7/1	
Sub-total	2,679	0.79	151	45.5	1.81	1,741	65
Retail							
0.00 to < 0.15	-	-	-	-	-	-	,
0.15 to < 0.25	-	-	-	-	-	-	
0.25 to < 0.50	-	-	-	-	-	-	
0.50 to < 0.75	-	-	-	-	-	-	
0.75 to < 2.50	-	-	-	-	-	-	
2.50 to < 10.00	-	-	-	-	-	-	
10.00 to < 100.00	-	-	-	-	-	-	
100.00 (Default)	-	-	-	-	-	-	
Sub-total	<u> </u>		-	<u>-</u>	-	-	
Total (sum of all portfolios)	17,108	0.18	283	36.5	1.64	4,054	24

Note:

Details on the scope of models and percentage of RWA covered by models for each of the regulatory portfolios can be found in the 'Credit risk under internal ratings-based approach' section of this document.

The Group has not used IMM(CCR) approach to calculate its default risk exposure.

CIS exposures

Regulatory retail exposures

Residential mortgage loans

Other exposures which are not past due exposures
 Significant exposures to commercial entities

8

12

Total

Counterparty default risk under standardised approach Table 46: CCR3 - Counterparty default risk exposures (other than those to CCPs) by asset classes and by risk weights - for STC approach As at 31 Dec 2020 b d a c ca e h Total default risk exposure after Risk weight 0% 10% 20% 35% 50% 75% 100% 150% 250% Others **CRM** HK\$m Exposure class Sovereign exposures PSE exposures 28 28 -2a Of which: Domestic PSEs 28 28 Of which: Foreign PSEs Multilateral development bank exposures 4 Bank exposures 5 Securities firm exposures 6 Corporate exposures 134 134

-

28

-

33

33

134

33

195

Market risk

Overview and governance

Market risk is the risk that movements in market factors, including foreign exchange rates and commodity prices, interest rates, credit spreads and equity prices, will reduce our income or the value of our portfolios.

Exposure to market risk is separated into two portfolios:

- Trading portfolios: these comprise positions held for client servicing and market-making, with the intention of short-term resale and/or to hedge risks resulting from such positions.
- Non-trading portfolios: these comprise positions that primarily arise from the interest rate management of our retail and commercial banking assets and liabilities, financial investments measured at fair value through other comprehensive income, debt instruments measured at amortised cost.

Where appropriate, the Group applies similar risk management policies and measurement techniques to both trading and non-trading portfolios. The Group's objective is to manage and control market risk exposures in order to optimise return on risk while maintaining a market profile consistent with the established risk appetite.

The nature of the hedging and risk mitigation strategies range from the use of traditional market instruments, such as interest rate swaps, to more sophisticated hedging strategies to address a combination of risk factors arising at portfolio level.

Market risk governance

The Group's total VaR and stressed VaR ('SVaR') resides in Global Markets which manages market risk, within overall risk limits set by the CRO and approved by the Board.

Market risk measures

Monitoring and limiting market risk exposures

The Group's objective is to manage and control market risk exposures while maintaining a market profile consistent with the Group's risk appetite. The Group uses a range of tools to monitor and limit market risk exposures including sensitivity analysis, VaR, and stress testing.

Sensitivity analysis

The Group uses sensitivity measures to monitor the market risk positions within each asset class and risk type. Granular sensitivity limits are set for each trading desk taking into consideration market liquidity, customer demand and capital constraints, amongst other factors.

VaR

VaR is a technique that estimates the potential mark-to-market losses on derivative, security and money market positions in the trading and non-trading portfolios as a result of movements in market rates and prices over a specified time horizon and to a given level of confidence. The use of VaR is an integral part of our market risk management framework and is calculated for a scope of trading and non-trading positions which is wider than the set of trading positions which are capitalised under a VaR treatment.

Our models are predominantly based on historical simulation. VaR is calculated at a 99% confidence level for a one-day holding period, although a long period is additionally used for non-trading positions.

Our VaR models use historical series of market rates and prices, implicitly taking into account inter-relationships between different markets and rates such as interest rates and foreign exchange rates.

The primary categories of risk factors driving market risk are summarised below:

Risk factor	Description
Foreign exchange	Risk arising from change in foreign exchange rates and volatilities
Interest rate and Credit	Risk arising from changes in the level of interest rates and credit spreads that may impact prices of interest rate and credit spread sensitive assets.
Equity	Risk arising from changes in equity prices, volatilities and dividend yields.
Commodity	Risk arising from changes in commodity prices.

Our models use a mixed approach when applying changes in market rates and prices:

- For equity, credit and foreign exchange risk factors, the potential movements are typically represented on a relative return basis.
- For interest rates, a mixed approach is used. The scenarios applied to volatilities are on a relative return basis, whereas the scenarios applied to interest rate curves are calculated using a hybrid of absolute and relative returns. This approach enables the VaR to smoothly adapt to either low or high interest rate environments and to support negative rates.

The Group uses the past two years as the historical data set in our VaR models and the scenarios are updated on a fortnightly basis. These scenarios are then applied to the market baselines and positions on a daily basis. The models incorporate the effect of option features on the underlying exposures.

The valuation approach used in our models varies:

- non-linear instruments using a full revaluation approach; and
- linear instruments, such as bonds and swaps, using a sensitivity based approach.

The nature of the VaR models means that an increase in observed market volatility will lead to an increase in VaR even without any changes in the underlying positions.

VaR model limitations

Although a valuable guide to risk, VaR should always be viewed in the context of its limitations. For example:

- the use of historical data as a proxy for estimating future events may not encompass all potential events, particularly those which are extreme in nature:
- the use of a 1-day holding period for risk management purposes of trading and non-trading books assumes that this short period is sufficient to hedge or liquidate all positions;
- the use of a 99% confidence level, by definition does not take into account losses that might occur beyond this level of confidence; and
- VaR is calculated on the basis of exposures outstanding at the close of business and therefore does not necessarily reflect intra-day exposures.

Risk not in VaR ('RNIV') framework

The risks not in VaR ('RNIV') framework captures risks from exposures in the trading book that are not captured well by the VaR model. Our VaR model is designed to capture significant basis risk such as cross-currency basis. Other basis risks that are not completely covered in VaR are complemented by our RNIV calculations and are integrated into our capital framework.

Risk factors are reviewed on a regular basis and either incorporated directly in the VaR models, where possible, or quantified through either the VaR-based RNIV approach or a stress test approach within the RNIV framework. While VaR-based RNIVs are calculated by using historical scenarios, stress-type RNIVs are estimated on the basis of stress scenarios whose severity is calibrated to be in line with the capital adequacy requirements.

Backtesting

The Group routinely validates the accuracy of the VaR models by back-testing both actual and hypothetical profit and loss against the trading VaR numbers. Hypothetical profit and loss excludes non-modelled items such as fees, commissions and revenues of intra-day transactions.

The actual number of profits or losses in excess of VaR over this period can therefore be used to gauge how well the models are performing. A VaR model is deemed satisfactory if it experiences fewer than five profit or loss exceptions in a 250-day period. VaR backtesting is performed at various levels of our group entity hierarchy. Back-testing using the regulatory hierarchy includes entities which have approval to use VaR in the calculation of market risk regulatory capital requirements.

Stress testing

Stress testing is an integral part of our market risk management framework which is used to evaluate the potential impact on portfolio values of more extreme, although plausible, events or movements in a set of financial variables. In such scenarios, losses can be greater than those predicted by VaR modelling.

Stress testing is implemented at the legal entity and the overall Group levels. The risk appetite around potential stress losses for the Group is set and monitored against referral limits.

Market risk reverse stress tests are designed to identify vulnerabilities in our portfolios by looking for scenarios that lead to loss levels considered severe for the relevant portfolio. These scenarios may be local or idiosyncratic in nature, and complement the systematic top-down stress testing.

Stressed VaR and stress testing, together with reverse stress testing, provide management with insights regarding the "tail risk" beyond VaR for which the Group appetite is limited.

The market risk stress testing incorporates historical and hypothetical events.

Market risk capital models

The Gorup has permission to use a number of market risk capital models to calculate regulatory capital as listed in the table below. For regulatory purposes, the trading book comprises all positions in financial instruments and commodities held with trading intent and positions where it can be demonstrated that they hedge positions in the trading book. Trading book positions must either be free of any restrictive covenants on their tradability or be capable of being hedged.

A financial instrument is defined as any contract that gives rise to both a financial asset to one party and a financial liability or equity instrument to another party.

Positions in the trading book are subject to market risk-based rules, i.e. market risk capital, calculated using regulatory approved models. Where the Group does not have permission to use internal models, market risk capital is calculated using the standardised approach.

Model Component	Confidence level	Liquidity horizon	Model description and methodology
VaR	99%		Uses most recent two years' history of daily returns to determine a loss distribution. The result is scaled, using the square root of 10, to provide an equivalent 10-day loss.
Stressed VaR	99%	10 day	Stressed VaR is calibrated to a one-year period of stress observed in history.

VaR

VaR used for regulatory purposes differs from VaR used for management purpose with key differences listed below.

VaR	Regulatory	Management
Scope	Regulatory approval	Broader population of trading and
		banking book positions
Confidence interval	99%	99%
Liquidity horizon	10-day	1-day
Data set	Past 2 years	Past 2 years

The trading books that received approval from the regulator to be covered via an internal model are used to calculate VaR for regulatory purposes. Regulatory VaR levels contribute to the calculation of market risk RWAs.

Stressed VaR

Stressed VaR is primarily used for regulatory capital purposes and is integrated into the risk management process to ensure prudent capital management. Stressed VaR complements other risk measures by providing the potential losses under stressed market conditions.

Stressed VaR modelling follows the same approach as our VaR risk measure, except that:

- potential market movements employed for stressed VaR calculations are based on a continuous one-year period of stress for the trading portfolio;
- it is calculated to a 99% confidence using a 10-day holding period;
- it is based on an actual 10-day holding period, whereas Regulatory VaR is based on a one-day holding period scaled to 10 days.

Using the standard templates as specified by the HKMA, the following tables provide detailed information relating to market risk under STM and IMM approaches.

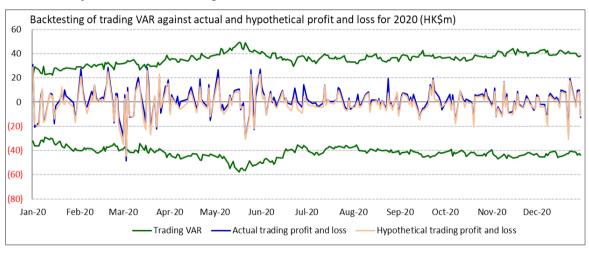
M	arket risk under standardised approach	
Ta	ble 47: MR1 – Market risk under STM approach	_
		a
		RWA
As	at 31 Dec 2020	HK\$m
	Outright product exposures	
1	Interest rate exposures (general and specific risk)	337
2	Equity exposures (general and specific risk)	-
3	Foreign exchange (including gold) exposures	-
4	Commodity exposures	-
	Option exposures	
5	Simplified approach	-
6	Delta-plus approach	
7	Other approach	-
8	Securitisation exposures	-
9	Total	337

Analysis of VaR, stressed VaR and incremental risk charge measures

Table 48: MR3 – IMM approach values for market risk exposures

	a
	Value
As at 31 Dec 2020	HK\$m
VaR (10 days – one-tailed 99% confidence interval)	
1 Maximum Value	182
2 Average Value	133
3 Minimum Value	92
4 Period End	137
Stressed VaR (10 days – one-tailed 99% confidence interval)	
5 Maximum Value	264
6 Average Value	163
7 Minimum Value	84
8 Period End	207
IRC (99.9% confidence interval)	
9 Maximum value	<u>-</u>
10 Average value	<u>-</u>
11 Minimum value	<u>-</u>
12 Period end	<u>-</u>
CRC (99.9% confidence interval)	
13 Maximum value	<u>-</u>
14 Average value	<u>-</u>
15 Minimum value	<u>-</u>
16 Period end	<u>-</u>
17 Floor	-

Table 49: MR4 – Comparison of VaR estimates with gains or losses



In 2020, there were one profit exception and one loss exception at the Group consolidated level.

Prudent valuation adjustment

The Group has documented policies and maintains systems and controls for the calculation of Prudent Valuation Adjustment ('PVA'). Prudent value is an estimated conservative pricing with a 90% degree of certainty that would be received to sell an asset or paid to transfer a liability in orderly transactions occurring between market participants at the balance sheet date. The Group's methodology addresses fair value uncertainties arising from a number of sources; market price uncertainty, bid offer uncertainty, model risk, concentration, administration cost, unearned credit spreads and investing and funding costs.

Table 50: PV1 – Prudent valuation adjustments

		a	b	С	d	e	f	g	h
		Equity	Interest rates		Credit	Commo- dities		Of which: In the trading book	Of which: In the banking book
As a	at 31 Dec 2020	HK\$m	HK\$m	HK\$m	HK\$m	HK\$m	HK\$m	HK\$m	HK\$m
1	Close-out uncertainty	(43)	(41)	(1)	-	-	(85)	(24)	(61)
2	-for which: Mid-market value	(43)	(14)	(1)	-	-	(58)	(8)	(50)
3	Close-out costs	-	(14)	-	-	-	(14)	(11)	(3)
4	Concentration	-	(13)	-	-	-	(13)	(5)	(8)
5	Early termination	-	-	-	-	-	-	-	-
6	Model risk	-	-	-	-	-	-	-	-
7	Operational risks	(6)	(4)	(1)	-	-	(11)	(3)	(8)
8	Investing and funding costs	-	-	-	-	-	-	-	-
9	Unearned credit spreads	-	(2)	(2)	-	-	(4)	(4)	-
10	Future administrative costs	-	-	-	-	-	-	-	-
11	Other adjustments	-			-	-	-	-	-
12	Total adjustments	(49)	(47)	(4)	-	-	(100)	(31)	(69)

Note:

The numbers above represent negative valuation adjustments for assets measured at fair value.

Liquidity information

The following table displays the LCR and NSFR levels on three reporting bases in accordance with rules 10(1)(a), 10(1)(b) and 11(1) of the BLR:

Table 51: LIQA - LCRs and NSFRs on three liquidity reporting bases

	LCR	NSFR
As at 31 Dec 2020	%	%
Hong Kong Office	249.8	155.3
Unconsolidated	242.6	153.8
Consolidated	230.4	152.9

Information relating to the Group's approach to liquidity risk management, including customised measurement tools and metrics, and details of collateral pools and funding sources are set out in the 'Liquidity and funding risk' section in pages 89 to 93 of the Group's 2020 Annual Report*. The balance sheet items, broken down into maturity buckets are disclosed in Note 21 'Maturity Analysis of assets and liabilities' on the consolidated financial statements in pages 202 to 204 of the Group's 2020 Annual Report*.

Annual Report (Printed version) Annual Report (Text version)

 Page 89 to 93
 Page 73 to 76

 Page 202 to 204
 Page 206 to 207

^{*} Refers to printed version. The page reference of Annual Report (text version) is as follows:

The Group is required to calculate its LCR and NSFR on a consolidated basis in accordance with rule 11(1) of the BLR and to maintain both LCR and NSFR of not less than 100%.

Table 52: Average liquidity coverage ratio	
	Quarter ended
	31 Dec
	2020
	%
Average liquidity coverage ratio	207.8

The liquidity position and funding position of the Group remained strong and stable in 2020. The average LCR ranged from 181.6% to 207.8% for the four reportable quarters.

The composition of the Group's high quality liquid assets ('HQLA') as defined under Schedule 2 of the BLR is shown as below. The majority of the HQLA held by the Group are Level 1 assets which comprise mainly of government debt securities.

Table 53: Total weighted amount of high quality liquid assets	
	Weighted value
	(average) for the
	quarter ended
	31 Dec
	2020
	HK\$m
Level 1 assets	384,837
Level 2A assets	14,498
Level 2B assets	2,563
Total weighted amount of HQLA	401,898

Sources of funding

Our primary sources of funding are customer deposits. We issue wholesale securities to supplement our customer deposits and change the currency mix or maturity profile of our liabilities.

Currency mismatch

In times of stress it cannot automatically be assumed that one currency can always be converted for another, even if those currencies are 'hard' currencies. LCR is therefore assessed by single currency for those that are material. In some currencies, convertibility is restricted by regulators and central banks and this restriction results in local currency not being convertible offshore or even onshore. All operating entities are required to monitor material single currency LCR. Limits are approved and monitored by local Asset and Liability Management Committee ('ALCO').

Additional contractual obligations

Most of the Group's derivative transactions are exchange rate contracts and interest rate contracts. Under the terms of our current collateral obligations under derivative contracts (which are ISDA compliant CSA contracts), in the event of one-notch and two-notch downgrade in credit ratings, the additional collateral required to post is nil.

A summary of the Group's current policies and practices for the management of liquidity and funding risk is set out in 'Liquidity and funding risk' section on pages 89 to 93 of the Group's 2020 Annual Report*.

^{*} Refers to printed version. The page reference of Annual Report (text version) is page 73 to 76.

The following table sets out the required disclosure items under the Liquidity Coverage Ratio Standard Disclosure Template as specified by the HKMA. Number of data points used in calculating the average value of the LCR and related components set out in this table for the quarter ended on 31 December 2020 was 74.

Tab	le 54: LIQ1 – Liquidity coverage ratio – for category 1 institution		
		Quarter ended (74 data	
		a	b
		Unweighted	
Bas	is of disclosure: consolidated	value	Weighted value
		(average)	(average)
		HK\$m	HK\$m
A	High quality liquid assets		
1	Total high quality liquid assets ('HQLA')		401,898
В	Cash outflows		
2	Retail deposits and small business funding, of which:	887,475	72,255
3	Stable retail deposits and stable small business funding	235,616	7,069
4	Less stable retail deposits and less stable small business funding	651,859	65,186
4a	Retail term deposits and small business term funding	-	-
5	Unsecured wholesale funding (other than small business funding) and debt securities and		
	prescribed instruments issued by the institution, of which:	338,434	168,569
6	Operational deposits	35,971	8,347
7	Unsecured wholesale funding (other than small business funding) not covered in Row 6	299,996	157,755
8	Debt securities and prescribed instruments issued by the institution and redeemable within		
	the LCR period	2,467	2,467
9	Secured funding transactions (including securities swap transactions)		20
10	Additional requirements, of which:	81,666	12,495
11	Cash outflows arising from derivative contracts and other transactions, and additional		
	liquidity needs arising from related collateral requirements	4,426	4,408
12	Cash outflows arising from obligations under structured financing transactions and		
	repayment of funding obtained from such transactions	508	508
13	Potential drawdown of undrawn committed facilities (including committed credit facilities		
	and committed liquidity facilities)	76,732	7,579
14	Contractual lending obligations (not otherwise covered in Section B) and other contractual cash		
	outflows	26,225	26,225
15	Other contingent funding obligations (whether contractual or non-contractual)	446,928	2,148
16	Total cash outflows		281,712
C	Cash inflows		
17	Secured lending transactions (including securities swap transactions)	7,441	2,588
18	Secured and unsecured loans (other than secured lending transactions covered in Row 17) and		
	operational deposits placed at other financial institutions	101,295	60,758
19	Other cash inflows	33,056	24,164
20	Total cash inflows	141,792	87,510
D	Liquidity coverage ratio (adjusted value)		
21	Total HQLA		401,898
22	Total net cash outflows		194,202
23	LCR (%)		207.8%

Table 55: LIQ2 – Net stable funding ratio – for category 1 institution

		Quarter ended 31 Dec 2020				
Basis of disclosure: consolidated		Unweighted value by residual maturity				
		No specified term to maturity HK\$m	<6 months or repayable on demand HK\$m	6 months to < 12 months HK\$m	12 months or more HK\$m	Weighted amount HK\$m
Α.	Available stable funding ('ASF') item			22242		
1	Capital:	161,006				161,006
2	Regulatory capital	161,006				161,006
2a	Minority interests not covered by row 2	-		<u>-</u>		101,000
3	Other capital instruments	<u> </u>	<u> </u>			<u>-</u>
4	Retail deposits and small business funding:	-	899,650	-	-	821,625
5	Stable deposits	-	238,817	-	-	
6	Less stable deposits			-	-	226,876 594,749
7	Wholesale funding:		660,833 349,772	6,402	272	158,605
8	Operational deposits			0,402	212	
9	1 1		36,681	- (102	272	18,340
10	Other wholesale funding Liabilities with matching interdependent assets	-	313,091	6,402	272	140,265
11	Other liabilities:	55,903	72 910	7,870	20 100	24,123
12	Net derivative liabilities	898	72,810	7,870	20,188	24,123
13	All other funding and liabilities not included in the above	090				
13	categories	55,005	72,810	7,870	20,188	24,123
14	Total ASF	22,002	72,010	7,070	20,100	1,165,359
В.	Required stable funding ('RSF') item					1,105,559
15	Total HQLA for NSFR purposes		122 81	17		13,373
16	Deposits held at other financial institutions for operational		432,81	17		13,373
10	1	_	_	_	_	_
17	purposes Performing loans and securities:	37,196	236,606	116,926	643,586	669,612
17 18	Performing loans and securities. Performing loans to financial institutions secured by Level	37,190	230,000	110,920	043,300	009,012
10	1 HQLA	_	4,532	_	_	453
19	Performing loans to financial institutions secured by non-		4,332			433
19	Level 1 HQLA and unsecured performing loans to					
	financial institutions	7	33,476	2,122	10,839	16,928
20	Performing loans, other than performing residential	•			10,005	10,720
20	mortgage, to non-financial corporate clients, retail and					
	small business customers, sovereigns, the Monetary					
	Authority for the account of the Exchange Fund, central					
	banks and PSEs, of which:	33,021	167,513	103,253	330,221	442,137
21	With a risk-weight of less than or equal to 35% under	·		·	·	
	the STC approach	23	5,707	89	2,469	3,015
22	Performing residential mortgages, of which:	_	7,547	7,314	291,098	203,350
23	With a risk-weight of less than or equal to 35% under					
	the STC approach	-	6,418	6,383	257,569	173,820
24	Securities that are not in default and do not qualify as			·	·	
	HQLA, including exchange-traded equities	4,168	23,538	4,237	11,428	6,744
25	Assets with matching interdependent liabilities	_	_	_	-	
26	Other assets:	87,877	17,600	125	1,088	75,612
27	Physical traded commodities, including gold	12,337	27,000		2,000	10,486
28	Assets posted as initial margin for derivative contracts	12,007				10,700
20	and contributions to default funds of CCPs	1,858				1,579
29	Net derivative assets	-,				-,
30	Total derivative liabilities before deduction of variation					<u> </u>
	margin posted	4,973				249
31	All other assets not included in the above categories	68,709	17,600	125	1,088	63,298
32	Off-balance sheet items	33,707	2.,000	521,026	2,000	3,509
33	Total RSF			,-		762,106
34	Net Stable Funding Ratio (%)					152.9%
	<u> </u>					

Table 55: LIQ2 – Net stable funding ratio – for category 1 institution (continued)

		Quarter ended 30 Sep 2020				
		Unweighted value by residual maturity				
Basis of disclosure: consolidated		No specified term to maturity HK\$m	<6 months or repayable on demand HK\$m	6 months to < 12 months HK\$m	12 months or more HK\$m	Weighted amount HK\$m
	Available stable funding ('ASF') item	ПКфП	ПКфііі	ПКфШ	ПКрш	ПКфП
A. 1	Capital:	157,554	_		-	157,554
2	Regulatory capital	157,554				157,554
2a	Minority interests not covered by row 2	-				137,334
3	Other capital instruments			_	_	
4	Retail deposits and small business funding:	_	880,915		_	804,550
5	Stable deposits		234,523	_	-	222,797
6	Less stable deposits		646,392		_	581,753
7	Wholesale funding:	_	449,870	6,232	272	160,881
8	Operational deposits		34,190	0,232	-	17,095
9	Other wholesale funding	-	415,680	6,232	272	143,786
10	Liabilities with matching interdependent assets		415,000	- 0,232	-	143,760
11	Other liabilities:	22,982	43,620	3,187	20,181	21,775
12	Net derivative liabilities	168	43,020	3,167	20,101	21,773
13	All other funding and liabilities not included in the above	100				
13	categories	22,814	43,620	3,187	20,181	21,775
14	Total ASF	,	,	2,2 2.		1,144,760
В.	Required stable funding ('RSF') item					1,1 : 1,7 00
15	Total HQLA for NSFR purposes		371,88	35		12,363
16	Deposits held at other financial institutions for operational					
	purposes	-	-	-	-	<u>-</u>
17	Performing loans and securities:	36,065	302,778	131,605	642,129	683,627
18	Performing loans to financial institutions secured by Level 1 HQLA	-	6,594	-	-	659
19	Performing loans to financial institutions secured by non-					
	Level 1 HQLA and unsecured performing loans to					
	financial institutions	7	79,886	4,755	8,671	23,038
20	Performing loans, other than performing residential					
	mortgage, to non-financial corporate clients, retail and					
	small business customers, sovereigns, the Monetary					
	Authority for the account of the Exchange Fund, central	22.066	100 105	111.064	225.225	45.4.0.40
	banks and PSEs, of which:	32,966	180,107	111,062	335,325	454,343
21	With a risk-weight of less than or equal to 35% under	27	10.021	70	2.625	2.020
22	the STC approach	37	10,031	78	2,625	3,029
22	Performing residential mortgages, of which:	=	7,408	7,157	284,347	198,654
23	With a risk-weight of less than or equal to 35% under		6.240	6 210	251 610	160 705
24	the STC approach	=	6,249	6,218	251,618	169,785
24	Securities that are not in default and do not qualify as HQLA, including exchange-traded equities	3,092	28,783	8,631	13,786	6,933
25	2 1 0 0 1	3,092	20,703	0,031	13,700	0,933
25	Assets with matching interdependent liabilities	77,009	15,993	136	1,049	67,411
26	Other assets:	8,821	13,993	130	1,049	7,498
27	Physical traded commodities, including gold	0,021				7,490
20	Assets posted as initial margin for derivative contracts and contributions to default funds of CCPs	2,082				1,770
20	* * *	2,082				1,770
29 30	Net derivative assets Total derivative liabilities before deduction of variation					
30	nargin posted	3,064				153
31	All other assets not included in the above categories	63,042	15,993	136	1,049	57,990
32	Off-balance sheet items	03,042	13,773	522,639	1,047	3,812
33	Total RSF			322,037		767,213
34	Net Stable Funding Ratio (%)					149.2%
						- 12.270

Other disclosures

Interest rate exposures in the banking book

Interest rate risk in the banking book ('IRRBB') is the potential adverse impact of changes in interest rates on earnings and capital. The component of IRRBB that can be economically neutralised in the market is transferred to Markets Treasury to manage, in accordance with internal transfer pricing rules. In its management of IRRBB, the group aims to balance mitigating the effect of future interest rate movements which could reduce net interest income against the cost of hedging. The monitoring of the projected net interest income and economic value of equity ('EVE') sensitivity under varying interest rate scenarios is a key part of this.

Governance and structure

Group Treasury and Asset, Liability and Capital Management ('ALCM') monitor and control non-traded interest rate risk. This includes reviewing and challenging the business prior to the release of new products and in respect of proposed behavioural assumptions used for hedging activities. ALCM is also responsible for maintaining and updating the transfer pricing framework, informing the ALCO of the Group's overall banking book interest rate risk exposure and managing the balance sheet in conjunction with Markets Treasury.

The ALCO defines each operating entity's transfer pricing curve, reviews and approves the transfer pricing policy, including behaviouralisation assumptions used for products where there is either no defined maturity or customer optionality exists.

The ALCO is also responsible for monitoring and reviewing each entity's overall structural interest rate risk position. Interest rate behaviouralisation policies have to be formulated in line with the Group's behaviouralisation policies and approved at least annually by local ALCOs. Non-traded assets and liabilities are transferred to Markets Treasury based on their repricing and maturity characteristics.

Markets Treasury manages the banking book interest rate positions transferred to it within the Market Risk limits approved by RMM.

Sensitivity of economic value of equity

An EVE Sensitivity is the extent to which the EVE will change due to a pre-specified movement in interest rates (six prescribed interest rate shock scenarios as per HKMA), where all other economic variables are held constant. Variations in market interest rates can affect the economic value of assets, liabilities and OBS positions. The economic value of an instrument represents an assessment of the present value of its expected net cash flows, discounted to reflect market rates. The economic value perspective reflects this sensitivity. It provides a more comprehensive view of the potential long-term effects of changes in interest rates.

Sensitivity of net interest income

Net interest income ('NII') Sensitivity is the sensitivity of expected net interest income under varying interest rate scenarios, where all other economic variables are held constant. Sensitivity of net interest income reflects the authorised institution's ('AI') sensitivity of earnings due to changes in market interest rates. Based on the reported interest rate repricing positions in the Interest Rate Risk Return, the impact on earnings is assessed over the next 12 months if the interest rates change by prescribed interest rate shock scenarios as per HKMA.

The EVE and NII sensitivity shown in the quantitative disclosures are indicative and based on scenarios and assumptions prescribed by HKMA under completion instruction for the Return of Interest Rate Risk in the banking book - (MA(BS)12A), which is completed and reported quarterly on consolidated basis.

Key modelling and parametric assumptions used in calculating ΔEVE and ΔNII in table 56 includes:

- i. for ΔEVE, commercial margins and other spread components have been excluded from the cash flows used in the computation and discount rate used:
- ii. all the positions captured are assumed to run to maturity and slotted into the appropriate time bands according to the earliest interest repricing date (as per MA(BS)12A) including for non-maturity deposits;
- iii. no prepayment or early redemption risk assumed as AI does not have material long term fixed rate positions, majority of the loans are on a floating basis and average term for fixed rate deposits is one to three months therefore the risk is immaterial.

The Group uses internal measurement system (TMS)* to generate EVE metric for purposes of internal assessment of capital adequacy which are different from the modelling assumptions prescribed for this disclosure, however they do not contribute to any material directional implications, this includes:

- i. behaviouralisation of non-maturity products, the extent to which can be driven by:
 - a. the amount of the current balance that can be assessed as stable under business-as-usual conditions; and
 - b. for managed rate balances the historic market interest rate re-pricing behaviour observed; or
 - c. for non-interest bearing balances the duration for which the balance is expected to remain under business-as-usual conditions. This assessment is often driven by the reinvestment tenors available to Markets Treasury to neutralise the risk through the use of fixed rate government bonds or interest rate derivatives, and for derivatives the availability of cash flow hedging capacity.

- ii. internal measurement consider aggregated results of all currencies and not only material currencies as prescribed by HKMA under completion instruction for the Return of Interest Rate Risk in the banking book (MA(BS)12A);
- iii. negative rate flooring is set at -1% for the overnight tenor to 0% for 20 year tenor unlike the modelling assumptions prescribed under this disclosure which is set at -2% for all currencies; and
- iv. economic value gains weighted 50% and losses weighted 100% under internal measurement unlike modelling assumptions for this disclosure where economic value gains weights 0%.

*IMS follows European Banking Authority ('EBA') EVE methodology which is a group wide metrics for the purpose of internal assessment of capital adequacy.

Average and longest repricing maturity for non-maturity deposits ('NMDs') in 2020 was 1 day.

Table 56: IRRBB1 – Quantitative information on interest rate risk in banking book

d II 31 Dec 2019
31 Dec 2019
HK\$m
(121)
12
12
c-19
304
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The worst scenario for change in the economic value of equity is 'Parallel up'. The major contributors to the sensitivity is from the net gap positions for HKD, USD, AUD, CNY and EUR currencies.

The worst scenario for change in the net interest income over the next twelve months is 'Parallel up'. The asymmetry between scenarios, 'parallel up' and 'parallel down', is due to flooring at -2% as prescribed by the HKMA.

Mainland activities exposures

The analysis of mainland activities exposures is based on the categories of non-bank counterparties and the type of direct exposures defined by the HKMA Return of Mainland Activities - (MA(BS)20)'. This includes the mainland activities exposures extended by the Bank's Hong Kong offices and its wholly owned banking subsidiary in mainland China.

Table 57: Mainland activities exposures			
	On-balance	Off-balance	
	sheet	sheet	Total
	exposure	exposure	exposures
As at 31 Dec 2020	HK\$m	HK\$m	HK\$m
Type of Counterparties			
1 Central government, central government-owned entities			
and their subsidiaries and joint ventures ('JVs')	70,249	3,548	73,797
2 Local governments, local government-owned entities			
and their subsidiaries and JVs	22,986	3,165	26,151
3 PRC nationals residing in Mainland China or other entities			
incorporated in Mainland China and their subsidiaries and JVs	99,716	23,850	123,566
4 Other entities of central government not reported in item 1 above	7,324	663	7,987
5 Other entities of local governments not reported in item 2 above	5,113	55	5,168
6 PRC nationals residing outside Mainland China or			
entities incorporated outside Mainland China where			
the credit is granted for use in Mainland China	30,438	2,532	32,970
7 Other counterparties where the exposures are considered by			
the reporting institution to be non-bank Mainland China exposures	14,222	665	14,887
Total	250,048	34,478	284,526
Total assets after provision	1,618,570		
On-balance sheet exposures as percentage of total assets	15.45%		

On-balance sheet exposures as percentage of total assets remained stable as compared with 30 June 2020.

International claims

The Group's country risk exposures in the table below are prepared in accordance with the HKMA 'Return of International Banking Statistics - (MA(BS)21)' guidelines. International claims are on-balance sheet exposures to counterparties based on the location of the counterparties after taking into account the transfer of risk, and represent the sum of cross-border claims in all currencies and local claims in foreign currencies.

The table shows claims on individual countries and territories or areas, after recognised risk transfer, amounting to not less than 10% of the Group's total international claims.

Table 58: International claims						
•			Non Bank	Non-Financial		
		Official	Financial	Private		
	Banks	Sector	Institution	Sector	Others	Total
As at 31 Dec 2020	HK\$m	HK\$m	HK\$m	HK\$m	HK\$m	HK\$m
Developed countries	34,341	95,432	17,409	73,477	-	220,659
Offshore centres	8,557	18,549	7,957	142,569	-	177,632
of which: Hong Kong SAR	7,934	223	7,844	121,500	-	137,501
Developing Asia and Pacific	28,064	21,382	12,009	68,490	-	129,945
of which : China	13,543	21,344	10,924	62,228	-	108,039

At 31 December 2020, only claims on Hong Kong SAR and China were the individual countries and territories or areas, which were not less than 10% of the Group's total international claims.

Foreign exchange exposure

The Group's structural foreign exchange exposure, monitored using sensitivity analysis, represents the Group's foreign currency investments in subsidiaries, branches and associates, and the fair value of the Group's long-term foreign currency equity investments, the functional currencies of which are currencies other than the HK dollar. An entity's functional currency is normally that of the primary economic environment in which the entity operates. The Group's structural foreign exchange exposures are managed by the Group's ALCO with the primary objective of ensuring, where practical, that the Group's and the Bank's capital ratios are largely protected from the effect of changes in exchange rates.

Exchange differences on structural exposures are recognised in 'Other comprehensive income'.

The Group's foreign exchange exposures in the table below are prepared in accordance with the HKMA 'Return of Foreign Currency Position - (MA(BS)6)'.

At 31 December 2020, the USD and RMB were the currencies in which the Group had non-structural foreign currency positions that were not less than 10% of the total net position in all foreign currencies. The Group also had a RMB structural foreign currency position, which was not less than 10% of the total net structural position in all foreign currencies. The net options position is calculated on the basis of delta-weighted positions of all foreign exchange options contracts.

The table below summarise the net structural and non-structural foreign currency positions of the Group.

Table 59: Foreign exchange exposure				
			Other	Total
			foreign	foreign
	USD	RMB	currencies	currencies
As at 31 Dec 2020	HK\$m	HK\$m	HK\$m	HK\$m
Non-structural position				
Spot assets	213,411	177,460	182,551	573,422
Spot liabilities	(220,367)	(173,799)	(78,626)	(472,792)
Forward purchases	494,949	217,542	32,596	745,087
Forward sales	(486,281)	(220,262)	(136,283)	(842,826)
Net options position	81	210	(324)	(33)
Net long/(short) non-structural position	1,793	1,151	(86)	2,858
Structural position		18 305	1 494	19.799

Other information

Abbreviations

A	
AI	Authorised institution
ALCM	Asset, Liability and Capital Management
ALCO	Asset and Liability Management Committee
ASF	Available stable funding
AT1	Additional tier 1
AUD	Australian dollar
AVAs	Additional valuation adjustments
В	
Bank	Hang Seng Bank Limited
BCBS	Basel Committee on Banking Supervision
BCR	Banking (Capital) Rules
BDR	Banking (Disclosure) Rules
BLR	Banking (Liquidity) Rules
BSC	Basic approach
C	
CCF	Credit conversion factor
CCP	Central counterparty
CCR	Counterparty credit risk
CCyB	Countercyclical capital buffer
CEM	Current exposure method
CET1	Common equity tier 1
CF	Commodities finance
CIS	Collective investment scheme
CNH	Offshore Chinese Yuan
CNY	Onshore Chinese Yuan
CRC	Comprehensive risk charge
CRM	Credit risk mitigation
CSA	Credit support annex
CVA	**
•	Credit valuation adjustment
D	Demonstration of all the transfer of and all the dead of
D-SIB	Domestic systemically important authorised institution
D-SIB DTAs	Domestic systemically important authorised institution Deferred tax assets
D-SIB DTAs E	Deferred tax assets
D-SIB DTAs E EAD	Deferred tax assets Exposure at default
D-SIB DTAs E EAD EBA	Exposure at default European Banking Authority
D-SIB DTAs E EAD EBA ECAI	Exposure at default European Banking Authority External Credit Assessment Institution
D-SIB DTAs E EAD EBA ECAI ECL	Exposure at default European Banking Authority External Credit Assessment Institution Expected Credit Loss
D-SIB DTAs E EAD EBA ECAI ECL EL	Exposure at default European Banking Authority External Credit Assessment Institution Expected Credit Loss Expected loss
D-SIB DTAs E EAD EBA ECAI ECL EL EPE	Exposure at default European Banking Authority External Credit Assessment Institution Expected Credit Loss Expected loss Expected positive exposure
D-SIB DTAs E EAD EBA ECAI ECL EL EPE EVE	Exposure at default European Banking Authority External Credit Assessment Institution Expected Credit Loss Expected loss
D-SIB DTAs E EAD EBA ECAI ECL EL EPE EVE F	Exposure at default European Banking Authority External Credit Assessment Institution Expected Credit Loss Expected loss Expected positive exposure Economic value of equity
D-SIB DTAs E EAD EBA ECAI ECL EL EPE EVE F	Exposure at default European Banking Authority External Credit Assessment Institution Expected Credit Loss Expected loss Expected positive exposure Economic value of equity Fall-back approach
D-SIB DTAs E EAD EBA ECAI ECL EL EPE EVE F FBA FIRO	Exposure at default European Banking Authority External Credit Assessment Institution Expected Credit Loss Expected loss Expected positive exposure Economic value of equity Fall-back approach Financial Institutions (Resolution) Ordinance
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D-SIB DTAs E EAD EBA ECAI ECL EL EPE EVE F FBA FIRO	Exposure at default European Banking Authority External Credit Assessment Institution Expected Credit Loss Expected loss Expected positive exposure Economic value of equity Fall-back approach Financial Institutions (Resolution) Ordinance
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RW Risk-weight		
PWA Rick-weighted accet/rick weighted amount		
RWA Risk-weighted asset/risk-weighted amount	NWA	Alsa-weighten asset/fisk-weighten amount

S	
SA-CCR	Standardised approach for counterparty credit risk
SEC-ERBA	Securitisation external ratings-based approach
SEC-FBA	Securitisation fall-back approach
SEC-IRBA	Securitisation internal ratings-based approach
SEC-SA	Securitisation standardised approach
SFT	Securities financing transaction
SME	Small and medium-sized enterprises
SRW	Supervisory risk-weight
STC	Standardised (credit risk) approach
STM	Standardised (market risk) approach
SVaR	Stressed VaR
T	
T2	Tier 2
TLAC	Total loss-absorbing capacity
U	
USD	US dollar
V	
VaR	Value at risk