Pillar 3 Disclosure Report

30 June 2023

Right By You

United Overseas Bank Limited
Incorporated in the Republic of Singapore
Registration No. 193500026Z

Contents

Notes:

1 The pillar 3 disclosure report is presented in Singapore dollars.

2 Certain figures in this report may not add up to the respective totals due to rounding.

3 Amounts less than $500,000 in absolute term are shown as "#".

1 Introduction

UOB Group's Pillar 3 Disclosure Report (“The Report”) is prepared in accordance with the Monetary Authority of Singapore ("MAS") Notice to Banks No. 637 "Risk Based Capital Adequacy Requirements for Banks Incorporated in Singapore".

The Report is governed by the Group Pillar 3 Disclosure Policy which specifies the Group’s Pillar 3 disclosure requirements, frequency of disclosure, medium of disclosure, and the roles and responsibilities of various parties involved in the disclosure reporting. The Policy is reviewed at least annually and approved by the Board.

The Report facilitates an assessment of the Group's capital adequacy and provides an overview of the Group's risk profile.

2 Key Metrics

The table below provides an overview of the Group's key prudential metrics related to regulatory capital, leverage ratio and liquidity standards.

Components as at 30 June 2023

	$m	30 Jun 2023	31 Mar 2023	31 Dec 2022	30 Sep 2022	30 Jun 2022
	Available capital (amounts)[1]					
1	CET1 capital	35,842	36,101	34,405	33,988	34,460
2	Tier 1 capital	39,472	39,731	37,185	36,768	36,840
3	Total capital	45,643	45,818	43,364	43,129	42,964
	Risk weighted assets (amounts)[1]					
4	Total RWA	263,399	258,138	259,098	265,961	262,695
	Risk-based capital ratios as a percentage of RWA					
5	CET1 ratio (%)	13.6	14.0	13.3	12.8	13.1
6	Tier 1 ratio (%)	15.0	15.4	14.4	13.8	14.0
7	Total capital ratio (%)	17.3	17.7	16.7	16.2	16.4
	Additional CET1 buffer requirements as a percentage of RWA					
8	Capital conservation buffer requirement (2.5% from 2019) (%)	2.5	2.5	2.5	2.5	2.5
9	Countercyclical buffer requirement (%)	0.1	0.1	0.1	0.1	0.1
10	G-SIB and/or D-SIB additional requirement (%)	-	-	-	-	-
11	Total of CET1 specific buffer requirements (%) (row 8 + row 9 + row 10)	2.6	2.6	2.6	2.6	2.6
12	CET1 available after meeting the Reporting Bank's minimum capital requirements (%)	7.0	7.4	6.4	5.8	6.0
	Leverage Ratio[1]					
13	Total Leverage Ratio exposure measure	563,133	564,331	563,583	573,637	558,189
14	Leverage Ratio (%) (row 2/ row 13)	7.0	7.0	6.6	6.4	6.6
	Liquidity Coverage Ratio					
15	Total High Quality Liquid Assets	106,110	99,494	94,681	91,324	88,024
16	Total net cash outflow	63,661	64,872	64,713	64,549	62,688
17	Liquidity Coverage Ratio (%)	167	154	147	142	141
	Net Stable Funding Ratio					
18	Total available stable funding	320,131	319,742	310,095	304,477	293,662
19	Total required stable funding	265,384	263,679	266,941	267,959	265,477
20	Net Stable Funding Ratio (%)	121	121	116	114	111

[1] Commentaries to explain the significant changes, if any, during the quarter for the above metrics have been included in specific sections of this report.

3 Composition of Capital

3.1 Reconciliation of Regulatory Capital to Balance Sheet

Table 1 and **Table 2** are mandatory disclosures prescribed in MAS Notice 637 requirements.

Table 1 shows the reconciliation between the Group's published consolidated balance sheet and the regulatory capital components. Details of the regulatory capital components are set out in Table 2, as referenced.

The scope of consolidation for accounting and regulatory purposes is similar, except that subsidiaries which carry out insurance business are not consolidated for regulatory purpose. The list of the Group's major insurance subsidiaries can be found in the Group's Annual Report. As at 30 June 2023, both the total assets and the total equities of each of these subsidiaries were less than $1 billion.

Compared with 31 December 2022, key movements in the items under the column "Under regulatory scope of consolidation" were mainly from retained earnings, capital issuances and lower other reserves.

Table 1 - Reconciliation of Balance Sheet to Regulatory Capital as at 30 June 2023

$m	Balance Sheet per Published Financial Statements	Under regulatory scope of consolidation	Reference in Table 2
Equity			
Share capital and other capital	8,699		
of which paid-up ordinary shares		5,072	A
of which AT1 capital instruments		3,627	B
Retained earnings	30,527	30,362	C
of which unrealised fair value gains/losses on financial liabilities and derivative liabilities arising from changes in own credit risk		22	D1
Other reserves	6,463	6,052	E
of which unrealised fair value gains/losses on financial liabilities and derivative liabilities arising from changes in own credit risk		(10)	D2
Equity attributable to equity holders of the Bank	**45,689**		
Non-controlling interests	241		
of which NCI that meets criteria for inclusion in			
- CET1 capital		16	F1
- AT1 capital		3	F2
- T2 capital		3	F3
Total equity	**45,930**		
Liabilities			
Deposits and balances of banks	24,024		
Deposits and balances of customers	376,762		
Bills and drafts payable	922		
Derivative financial liabilities	15,379		
Other liabilities	8,251		
Tax payable	833		
Deferred tax liabilities	436		
Debts issued	33,026		
of which T2 capital instruments		4,660	G
Total liabilities	**459,633**		

3.1 Reconciliation of Regulatory Capital to Balance Sheet *(cont'd)*

Table 1 - Reconciliation of Balance Sheet to Regulatory Capital as at 30 June 2023

$m	Balance Sheet per Published Financial Statements	Under regulatory scope of consolidation	Reference in Table 2
Assets			
Cash, balances and placements with central banks	54,976		
Singapore Government treasury bills and securities	13,785		
Other government treasury bills and securities	21,290		
Trading securities	3,829		
Placements and balances with banks	26,306		
Loans to customers	314,649		
of which provisions eligible for inclusion in T2 capital		1,508	H
Derivative financial assets	14,529		
Investment securities[2]	37,484		
of which investments in PE/VC held beyond the relevant holding period		19	I1
Other assets	7,556		
of which investments in PE/VC held beyond the relevant holding period		-	I2
Deferred tax assets	687		
of which amount related to deferred tax assets (net of deferred tax liabilities, where permissible)		685	J
Investment in associates and joint ventures	1,262		
of which amount related to goodwill		9	K1
of which investments in PE/VC held beyond the relevant holding period		21	I3
Investment properties	737		
Fixed assets	3,582		
Intangible assets	4,891		
of which amount related to goodwill		4,707	K2
of which amount related to other intangibles		184	K3
Total Assets	**505,563**		

[2] This includes the Bank's major stake investments in financial institutions.

3.1 Reconciliation of Regulatory Capital to Balance Sheet *(cont'd)*

Table 2 lists the regulatory capital components and the corresponding regulatory adjustments.

(a) '**Amount**' refers to components of capital calculated in accordance with MAS Notice 637, and include both on- and off-balance sheet items.

(b) '**Reference in Table 1**' links the respective line item to Table 1.
Regulatory adjustments that are deducted against capital are reflected as positive numbers.

Table 2 - Capital Components as at 30 June 2023

$m		Amount	Reference in Table 1
Common Equity Tier 1 capital: instruments and reserves			
1	Paid-up ordinary shares and share premium (if applicable)	5,072	A
2	Retained earnings	30,362	C
3*	Accumulated other comprehensive income and other disclosed reserves	6,052	E
4	Directly issued capital subject to phase out from CET1 (only applicable to non-joint stock companies)	-	
5	Minority interest that meets criteria for inclusion	16	F1
6	**Common Equity Tier 1 capital before regulatory adjustments**	41,502	
Common Equity Tier 1 capital: regulatory adjustments			
7	Valuation adjustment pursuant to Part VIII of MAS Notice 637 [3]	-	
8	Goodwill, net of associated deferred tax liability	4,717	K1+K2
9*	Intangible assets, net of associated deferred tax liability	184	K3
10*	Deferred tax assets that rely on future profitability	685	J
11	Cash flow hedge reserve	5	
12	Shortfall of TEP relative to EL under IRBA	-	
13	Increase in equity capital resulting from securitisation transactions	-	
14	Unrealised fair value gains/losses on financial liabilities and derivative liabilities arising from changes in own credit risk	11	D1+ D2
15	Defined benefit pension fund assets, net of associated deferred tax liability	-	
16	Investments in own shares	-	
17	Reciprocal cross-holdings in ordinary shares of financial institutions	-	
18	Investments in ordinary shares of unconsolidated financial institutions in which the Reporting Bank does not hold a major stake	-	
19	Investments in ordinary shares of unconsolidated financial institutions in which the Reporting Bank holds a major stake (including insurance subsidiaries) (amount above 10% threshold)	-	
20*	Mortgage servicing rights (amount above 10% threshold)	-	
21*	Deferred tax assets arising from temporary differences (amount above 10% threshold, net of associated deferred tax liability)	-	
22	Amount exceeding the 15% threshold	-	
23	of which: investments in ordinary shares of unconsolidated financial institutions in which the Reporting Bank holds a major stake (including insurance subsidiaries)	-	
24*	of which: mortgage servicing rights	-	
25*	of which: deferred tax assets arising from temporary differences	-	
26	National specific regulatory adjustments	58	
26A	PE/VC investments held beyond the relevant holding periods set out in MAS Notice 630	58	I1 + I2 + I3
26B	Capital deficits in subsidiaries and associates that are regulated financial institutions	-	
26C	Any other items which the Authority may specify	-	
27	Regulatory adjustments applied in calculation of CET1 Capital due to insufficient AT1 Capital to satisfy required deductions	-	
28	**Total regulatory adjustments to CET1 Capital**	5,660	
29	**Common Equity Tier 1 capital (CET1)**	**35,842**	
Additional Tier 1 capital: instruments			

[3] All prudent valuation adjustments have been made for financial reporting purpose.

3.1 Reconciliation of Regulatory Capital to Balance Sheet *(cont'd)*

Table 2 - Capital Components as at 30 June 2023

$m		Amount	Reference in Table 1
30	AT1 capital instruments and share premium (if applicable)	3,627	B
31	of which: classified as equity under the Accounting Standards	3,627	
32	of which: classified as liabilities under the Accounting Standards	-	
33	Transitional: Ineligible capital instruments (pursuant to paragraphs 6.5.3 and 6.5.4)	-	
34	AT1 capital instruments issued by fully-consolidated subsidiaries that meet criteria for inclusion	3	F2
35	of which: instruments issued by subsidiaries subject to phase out	-	
36	**Additional Tier 1 capital before regulatory adjustments**	3,630	
Additional Tier 1 capital: regulatory adjustments			
37	Investments in own AT1 capital instruments	#	
38	Reciprocal cross-holdings in AT1 capital instruments of financial institutions	-	
39	Investments in AT1 capital instruments of unconsolidated financial institutions in which Reporting Bank does not hold a major stake	-	
40	Investments in AT1 capital instruments of unconsolidated financial institutions in which the Reporting Bank holds a major stake (including insurance subsidiaries)	-	
41	National specific regulatory adjustments which the Authority may specify	-	
42	Regulatory adjustments applied in calculation of AT1 Capital due to insufficient Tier 2 Capital to satisfy required deductions	-	
43	**Total regulatory adjustments to Additional Tier 1 capital**	#	
44	**Additional Tier 1 capital (AT1)**	3,630	
45	**Tier 1 capital (T1 = CET1 + AT1)**	**39,472**	
Tier 2 capital: instruments and provisions			
46	Tier 2 capital instruments and share premium (if applicable)	4,660	G
47	Transitional: Ineligible capital instruments (pursuant to paragraphs 6.5.3 and 6.5.4)	-	
48	Tier 2 capital instruments issued by fully-consolidated subsidiaries that meet criteria for inclusion	3	F3
49	of which: instruments issued by subsidiaries subject to phase out	-	
50	Provisions	1,508	H
51	**Tier 2 capital before regulatory adjustments**	6,171	
Tier 2 capital: regulatory adjustments			
52	Investments in own Tier 2 instruments	-	
53	Reciprocal cross-holdings in Tier 2 capital instruments of financial institutions	-	
54	Investments in Tier 2 capital instruments and other TLAC liabilities of unconsolidated financial institutions in which the Reporting Bank does not hold a major stake	-	
54a*	Investments in other TLAC liabilities of unconsolidated financial institutions in which the Reporting Bank does not hold a major stake: amount previously designated for the 5% threshold but that no longer meets the conditions	-	
55	Investments in Tier 2 capital instruments and other TLAC liabilities of unconsolidated financial institutions in which the Reporting Bank holds a major stake (including insurance subsidiaries)	-	
56	National specific regulatory adjustments which the Authority may specify	-	
57	**Total regulatory adjustments to Tier 2 capital**	-	
58	**Tier 2 capital (T2)**	**6,171**	
59	**Total capital (TC = T1 + T2)**	**45,643**	
60	**Floor-adjusted total risk weighted assets**	**263,399**	
Capital ratios (as a percentage of floor-adjusted risk weighted assets)			
61	**Common Equity Tier 1 CAR**	**13.6%**	
62	**Tier 1 CAR**	**15.0%**	
63	**Total CAR**	**17.3%**	

3.1 Reconciliation of Regulatory Capital to Balance Sheet *(cont'd)*

Table 2 - Capital Components as at 30 June 2023

$m		Amount	Reference in Table 1
64	Bank-specific buffer requirement	9.1%	
65	of which: capital conservation buffer requirement	2.5%	
66	of which: bank specific countercyclical buffer requirement	0.1%	
67	of which: G-SIB and/or D-SIB buffer requirement (if applicable)	-	
68	Common Equity Tier 1 available after meeting the Reporting Bank's minimum capital requirements	7.0%	
National minima			
69	Minimum CET1 CAR	6.5%	
70	Minimum Tier 1 CAR	8.0%	
71	Minimum Total CAR	10.0%	
Amounts below the thresholds for deduction (before risk weighting)			
72	Investments in ordinary shares, AT1 capital, Tier 2 capital and other TLAC liabilities of unconsolidated financial institutions in which the bank does not hold a major stake	670	
73	Investments in ordinary shares of unconsolidated financial institutions in which the Reporting Bank holds a major stake (including insurance subsidiaries)	1,476	
74	Mortgage servicing rights (net of associated deferred tax liability)	-	
75	Deferred tax assets arising from temporary differences (net of associated deferred tax liability)	-	
Applicable caps on the inclusion of provisions in Tier 2			
76	Provisions eligible for inclusion in Tier 2 in respect of exposures subject to standardised approach (prior to application of cap)	603	
77	Cap on inclusion of provisions in Tier 2 under standardised approach	504	row 50
78	Provisions eligible for inclusion in Tier 2 in respect of exposures subject to internal ratings-based approach (prior to application of cap)	1,004	row 50
79	Cap for inclusion of provisions in Tier 2 under internal ratings-based approach	1,061	
Capital instruments subject to phase-out arrangements (only applicable between 1 Jan 2013 and 1 Jan 2022)			
80	*Current cap on CET1 instruments subject to phase out arrangements*	-	
81	*Amount excluded from CET1 due to cap (excess over cap after redemptions and maturities)*	-	
82	*Current cap on AT1 instruments subject to phase out arrangements*	-	
83	*Amount excluded from AT1 due to cap (excess over cap after redemptions and maturities)*	-	
84	*Current cap on T2 instruments subject to phase out arrangements*	-	
85	*Amount excluded from T2 due to cap (excess over cap after redemptions and maturities)*	-	

[3] All prudent valuation adjustments have been made for financial reporting purpose.

* These elements are subject to a more conservative definition relative to those set out under the Basel III capital standards.

3.2 Main Features of Regulatory Instruments

The following disclosure is based on the prescribed template as set out in MAS Notice 637. This disclosure shall be updated on a semi-annual basis and to be read in conjunction with the notes at https://www.UOBgroup.com/investor-relations/capital-and-funding-information/group-securities.html.

The salient features for non-public offerings have been included below, though further details are not published on the UOB website as they are not meaningful nor relevant.

3.2 Main Features of Regulatory Instruments *(cont'd)*

Key Features of Regulatory Capital Instruments as at 30 June 2023

1	Issuer	United Overseas Bank Limited	United Overseas Bank Limited
2	Unique Identifier (ISIN code)	SG1M31001969	SGXF92643398
3	Governing law(s) of the instrument	Singapore	Singapore
	Regulatory treatment		
4	Transitional Basel III rules	Core Equity	Additional Tier 1
5	Post-transitional Basel III rules	Core Equity	Additional Tier 1
6	Eligible at solo/group/group&solo	Group & Solo	Group & Solo
7	Instrument type	Ordinary Share	Perpetual Capital Security
8	Amount recognised in regulatory capital *(in millions)*	S$5,072 million	S$850 million
9	Principal amount *(in millions)*	n.a.	S$850 million
10	Accounting classification	Equity	Equity
11	Original date of issuance	20 July 1970	19 January 2023
12	Perpetual or dated	Perpetual	Perpetual
13	Original maturity date	No maturity	No maturity
14	Issuer call subject to prior supervisory approval	n.a.	Yes
15	Optional call date	n.a.	19 January 2028
	Tax/ regulatory event call	n.a.	Yes
	Redemption price	n.a.	Par
16	Subsequent call dates, if applicable	n.a.	Each distribution payment date thereafter
	Coupons / dividends		
17	Fixed or floating [(1)]	Discretionary dividend amount	Fixed
18	Coupon rate and any related index	n.a.	5.25% paid semi-annually on 19 January and 19 July
19	Existence of a dividend stopper	n.a.	Yes
20	Fully discretionary, discretionally or mandatory	Fully discretionary	Fully discretionary
21	Existence of step up or incentive to redeem	n.a.	No
22	Non-cumulative or cumulative	Non-cumulative	Non-cumulative
23	Convertible or non-convertible	n.a.	Non-convertible
24	If convertible, conversion trigger	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	n.a.	Yes
31	If write-down, write-down triggers(s)	n.a.	The earlier of: (i) the MAS notifying the Issuer in writing that it is of the opinion that a write-down is necessary, without which the Issuer would become non-viable; and (ii) a decision by the MAS to make a public sector injection of capital, or equivalent support, without which the Issuer would have become non-viable, as determined by the MAS
32	If write-down, full or partial	n.a.	Full or partial
33	If write-down, permanent or temporary	n.a.	Permanent
34	If temporary write-down, description of write-up mechanism	n.a.	n.a.
35	Position in subordination hierarchy in liquidation *(instrument type immediately senior to instrument)*	Additional Tier 1 instruments	Tier 2 instruments
36	Non compliant transitioned features	No	No
37	If yes, specify non compliant features	n.a.	n.a.

(1) Details on re-fixing of the dividend/interest rate on the first call date are available in the UOB website.

3.2 Main Features of Regulatory Instruments *(cont'd)*

Key Features of Regulatory Capital Instruments as at 30 June 2023

1	Issuer	United Overseas Bank Limited	United Overseas Bank Limited
2	Unique Identifier (ISIN code)	SGXF56824851	SGXF73188736
3	Governing law(s) of the instrument	Singapore	Singapore
	Regulatory treatment		
4	Transitional Basel III rules	Additional Tier 1	Additional Tier 1
5	Post-transitional Basel III rules	Additional Tier 1	Additional Tier 1
6	Eligible at solo/group/group&solo	Group & Solo	Group & Solo
7	Instrument type	Perpetual Capital Security	Perpetual Capital Security
8	Amount recognised in regulatory capital *(in millions)*	S$400 million	S$599 million
9	Principal amount *(in millions)*	S$400 million	S$600 million
10	Accounting classification	Equity	Equity
11	Original date of issuance	4 July 2022	22 June 2021
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	4 October 2027	22 June 2028
	Tax/ regulatory event call	Yes	Yes
	Redemption price	Par	Par
16	Subsequent call dates, if applicable	Each distribution payment date thereafter	Each distribution payment date thereafter
	Coupons / dividends		
17	Fixed or floating [1]	Fixed	Fixed
18	Coupon rate and any related index	4.25% paid semi-annually on 4 January and 4 July	2.55% paid semi-annually on 22 June and 22 December
19	Existence of a dividend stopper	Yes	Yes
20	Fully discretionary, discretionally or mandatory	Fully discretionary	Fully discretionary
21	Existence of step up or incentive to redeem	No	No
22	Non-cumulative or cumulative	Non-cumulative	Non-cumulative
23	Convertible or non-convertible	Non-convertible	Non-convertible
24	If convertible, conversion trigger	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 triggers(s)	The earlier of: (i) the MAS notifying the Issuer in writing that it is of the opinion that a write-down is necessary, without which the Issuer would become non-viable; and (ii) a decision by the MAS to make a public sector injection of capital, or equivalent support, without which the Issuer would have become non-viable, as determined by the MAS	The earlier of: (i) the MAS notifying the Issuer in writing that it is of the opinion that a write-down is necessary, without which the Issuer would become non-viable; and (ii) a decision by the MAS to make a public sector injection of capital, or equivalent support, without which the Issuer would have become non-viable, as determined by the MAS
32	If write-down, full or partial	Full or partial	Full or partial
33	If write-down, permanent or temporary	Permanent	Permanent
34	If temporary write-down, description of write-up mechanism	n.a.	n.a.
35	Position in subordination hierarchy in liquidation *(instrument type immediately senior to instrument)*	Tier 2 instruments	Tier 2 instruments
36	Non compliant transitioned features	No	No
37	If yes, specify non compliant features	n.a.	n.a.

[1] Details on re-fixing of the dividend/interest rate on the first call date are available in the UOB website.

3.2 Main Features of Regulatory Instruments *(cont'd)*

Key Features of Regulatory Capital Instruments as at 30 June 2023

1	Issuer	United Overseas Bank Limited	United Overseas Bank Limited
2	Unique Identifier (ISIN code)	SGXF91929004	SGXF48097749
3	Governing law(s) of the instrument	Singapore	Singapore
	Regulatory treatment		
4	Transitional Basel III rules	Additional Tier 1	Additional Tier 1
5	Post-transitional Basel III rules	Additional Tier 1	Additional Tier 1
6	Eligible at solo/group/group&solo	Group & Solo	Group & Solo
7	Instrument type	Perpetual Capital Security	Perpetual Capital Security
8	Amount recognised in regulatory capital *(in millions)*	S$150 million	S$749 million
9	Principal amount *(in millions)*	S$150 million	S$750 million
10	Accounting classification	Equity	Equity
11	Original date of issuance	15 January 2021	17 July 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	15 January 2026	17 July 2026
	Tax/ regulatory event call	Yes	Yes
	Redemption price	Par	Par
16	Subsequent call dates, if applicable	Each distribution payment date thereafter	Each distribution payment date thereafter
	Coupons / dividends		
17	Fixed or floating [1]	Fixed	Fixed
18	Coupon rate and any related index	2.25% paid semi-annually on 15 January and 15 July	3.58% paid semi-annually on 17 January and 17 July
19	Existence of a dividend stopper	Yes	Yes
20	Fully discretionary, discretionally or mandatory	Fully discretionary	Fully discretionary
21	Existence of step up or incentive to redeem	No	No
22	Non-cumulative or cumulative	Non-cumulative	Non-cumulative
23	Convertible or non-convertible	Non-convertible	Non-convertible
24	If convertible, conversion trigger	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 triggers(s)	The earlier of: (i) the MAS notifying the Issuer in writing that it is of the opinion that a write-down is necessary, without which the Issuer would become non-viable; and (ii) a decision by the MAS to make a public sector injection of capital, or equivalent support, without which the Issuer would have become non-viable, as determined by the MAS	The earlier of: (i) the MAS notifying the Issuer in writing that it is of the opinion that a write-down is necessary, without which the Issuer would become non-viable; and (ii) a decision by the MAS to make a public sector injection of capital, or equivalent support, without which the Issuer would have become non-viable, as determined by the MAS
32	If write-down, full or partial	Full or partial	Full or partial
33	If write-down, permanent or temporary	Permanent	Permanent
34	If temporary write-down, description of write-up mechanism	n.a.	n.a.
35	Position in subordination hierarchy in liquidation *(instrument type immediately senior to instrument)*	Tier 2 instruments	Tier 2 instruments
36	Non compliant transitioned features	No	No
37	If yes, specify non compliant features	n.a.	n.a.

[1] Details on re-fixing of the dividend/interest rate on the first call date are available in the UOB website.

3.2 Main Features of Regulatory Instruments *(cont'd)*

Key Features of Regulatory Capital Instruments as at 30 June 2023

1	Issuer	United Overseas Bank Limited	United Overseas Bank Limited
2	Unique Identifier (ISIN code)	XS1699845068	US91127LAH33 / US91127KAH59
3	Governing law(s) of the instrument	Singapore	Singapore
	Regulatory treatment		
4	Transitional Basel III rules	Additional Tier 1	Tier 2
5	Post-transitional Basel III rules	Additional Tier 1	Tier 2
6	Eligible at solo/group/group&solo	Group & Solo	Group & Solo
7	Instrument type	Perpetual Capital Security	Subordinated Debt
8	Amount recognised in regulatory capital *(in millions)*	S$879 million	S$1,253 million
9	Principal amount *(in millions)*	US$650 million	US$1,000 million
10	Accounting classification	Equity	Liability
11	Original date of issuance	19 October 2017	7 April 2022
12	Perpetual or dated	Perpetual	Dated
13	Original maturity date	No maturity	7 October 2032
14	Issuer call subject to prior supervisory approval	Yes	Yes
15	Optional call date	19 October 2023	7 October 2027
	Tax/ regulatory event call	Yes	Yes
	Redemption price	Par	Par
16	Subsequent call dates, if applicable	Each distribution payment date thereafter	Not applicable. One time call only.
	Coupons / dividends		
17	Fixed or floating [(1)]	Fixed	Fixed
18	Coupon rate and any related index	3.875% paid semi-annually on 19 April and 19 October	3.863% paid semi-annually on 7 April and 7 October
19	Existence of a dividend stopper	Yes	No
20	Fully discretionary, discretionally or mandatory	Fully discretionary	Mandatory
21	Existence of step up or incentive to redeem	No	No
22	Non-cumulative or cumulative	Non-cumulative	Cumulative
23	Convertible or non-convertible	Non-convertible	Non-convertible
24	If convertible, conversion trigger	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 triggers(s)	The earlier of: (i) the MAS notifying the Issuer in writing that it is of the opinion that a write-down is necessary, without which the Issuer would become non-viable; and (ii) a decision by the MAS to make a public sector injection of capital, or equivalent support, without which the Issuer would have become non-viable, as determined by the MAS	The earlier of: (i) the MAS notifying the Issuer in writing that it is of the opinion that a write-down is necessary, without which the Issuer would become non-viable; and (ii) a decision by the MAS to make a public sector injection of capital, or equivalent support, without which the Issuer would have become non-viable, as determined by the MAS
32	If write-down, full or partial	Full or partial	Full or partial
33	If write-down, permanent or temporary	Permanent	Permanent
34	If temporary write-down, description of write-up mechanism	n.a.	n.a.
35	Position in subordination hierarchy in liquidation *(instrument type immediately senior to instrument)*	Tier 2 instruments	Senior creditors
36	Non compliant transitioned features	No	No
37	If yes, specify non compliant features	n.a.	n.a.

(1) Details on re-fixing of the dividend/interest rate on the first call date are available in the UOB website.

3.2 Main Features of Regulatory Instruments *(cont'd)*

Key Features of Regulatory Capital Instruments as at 30 June 2023

1	Issuer	United Overseas Bank Limited	United Overseas Bank Limited
2	Unique Identifier (ISIN code)	XS2463967369	US91127LAE02 / US91127KAE29
3	Governing law(s) of the instrument	Singapore	Singapore
	Regulatory treatment		
4	Transitional Basel III rules	Tier 2	Tier 2
5	Post-transitional Basel III rules	Tier 2	Tier 2
6	Eligible at solo/group/group&solo	Group & Solo	Group & Solo
7	Instrument type	Subordinated Debt	Subordinated Debt
8	Amount recognised in regulatory capital *(in millions)*	S$121 million	S$900 million
9	Principal amount *(in millions)*	CNH 650 million	US$750 million
10	Accounting classification	Liability	Liability
11	Original date of issuance	6 April 2022	14 April 2021
12	Perpetual or dated	Dated	Dated
13	Original maturity date	6 April 2032	14 October 2031
14	Issuer call subject to prior supervisory approval	Yes	Yes
15	Optional call date	6 April 2027	14 October 2026
	Tax/ regulatory event call	Yes	Yes
	Redemption price	Par	Par
16	Subsequent call dates, if applicable	Not applicable. One time call only.	Not applicable. One time call only.
	Coupons / dividends		
17	Fixed or floating [(1)]	Fixed	Fixed
18	Coupon rate and any related index	4.50% paid semi-annually on 6 April and 6 October	2.00% paid semi-annually on 14 April and 14 October
19	Existence of a dividend stopper	No	No
20	Fully discretionary, discretionally or mandatory	Mandatory	Mandatory
21	Existence of step up or incentive to redeem	No	No
22	Non-cumulative or cumulative	Cumulative	Cumulative
23	Convertible or non-convertible	Non-convertible	Non-convertible
24	If convertible, conversion trigger	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 triggers(s)	The earlier of: (i) the MAS notifying the Issuer in writing that it is of the opinion that a write-down is necessary, without which the Issuer would become non-viable; and (ii) a decision by the MAS to make a public sector injection of capital, or equivalent support, without which the Issuer would have become non-viable, as determined by the MAS	The earlier of: (i) the MAS notifying the Issuer in writing that it is of the opinion that a write-down is necessary, without which the Issuer would become non-viable; and (ii) a decision by the MAS to make a public sector injection of capital, or equivalent support, without which the Issuer would have become non-viable, as determined by the MAS
32	If write-down, full or partial	Full or partial	Full or partial
33	If write-down, permanent or temporary	Permanent	Permanent
34	If temporary write-down, description of write-up mechanism	n.a.	n.a.
35	Position in subordination hierarchy in liquidation *(instrument type immediately senior to instrument)*	Senior creditors	Senior creditors
36	Non compliant transitioned features	No	No
37	If yes, specify non compliant features	n.a.	n.a.

(1) Details on re-fixing of the dividend/interest rate on the first call date are available in the UOB website.

3.2 Main Features of Regulatory Instruments *(cont'd)*

Key Features of Regulatory Capital Instruments as at 30 June 2023

1	Issuer	United Overseas Bank Limited	United Overseas Bank Limited
2	Unique Identifier (ISIN code)	XS2230275633	US91127LAC46 / US91127KAC62
3	Governing law(s) of the instrument	Singapore	Singapore
	Regulatory treatment		
4	Transitional Basel III rules	Tier 2	Tier 2
5	Post-transitional Basel III rules	Tier 2	Tier 2
6	Eligible at solo/group/group&solo	Group & Solo	Group & Solo
7	Instrument type	Subordinated Debt	Subordinated Debt
8	Amount recognised in regulatory capital *(in millions)*	S$732 million	S$792 million
9	Principal amount *(in millions)*	US$600 million	US$600 million
10	Accounting classification	Liability	Liability
11	Original date of issuance	16 September 2020	15 April 2019
12	Perpetual or dated	Dated	Dated
13	Original maturity date	16 March 2031	15 April 2029
14	Issuer call subject to prior supervisory approval	Yes	Yes
15	Optional call date	16 March 2026	15 April 2024
	Tax/ regulatory event call	Yes	Yes
	Redemption price	Par	Par
16	Subsequent call dates, if applicable	Not applicable. One time call only.	Not applicable. One time call only.
	Coupons / dividends		
17	Fixed or floating [(1)]	Fixed	Fixed
18	Coupon rate and any related index	1.75% paid semi-annually on 16 March and 16 September	3.75% paid semi-annually on 15 April and 15 October
19	Existence of a dividend stopper	No	No
20	Fully discretionary, discretionally or mandatory	Mandatory	Mandatory
21	Existence of step up or incentive to redeem	No	No
22	Non-cumulative or cumulative	Cumulative	Cumulative
23	Convertible or non-convertible	Non-convertible	Non-convertible
24	If convertible, conversion trigger	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 triggers(s)	The earlier of: (i) the MAS notifying the Issuer in writing that it is of the opinion that a write-down is necessary, without which the Issuer would become non-viable; and (ii) a decision by the MAS to make a public sector injection of capital, or equivalent support, without which the Issuer would have become non-viable, as determined by the MAS	The earlier of: (i) the MAS notifying the Issuer in writing that it is of the opinion that a write-down is necessary, without which the Issuer would become non-viable; and (ii) a decision by the MAS to make a public sector injection of capital, or equivalent support, without which the Issuer would have become non-viable, as determined by the MAS
32	If write-down, full or partial	Full or partial	Full or partial
33	If write-down, permanent or temporary	Permanent	Permanent
34	If temporary write-down, description of write-up mechanism	n.a.	n.a.
35	Position in subordination hierarchy in liquidation *(instrument type immediately senior to instrument)*	Senior creditors	Senior creditors
36	Non compliant transitioned features	No	No
37	If yes, specify non compliant features	n.a.	n.a.

(1) Details on re-fixing of the dividend/interest rate on the first call date are available in the UOB website.

3.2 Main Features of Regulatory Instruments *(cont'd)*

Key Features of Regulatory Capital Instruments as at 30 June 2023

1	Issuer	United Overseas Bank Limited	United Overseas Bank Limited
2	Unique Identifier (ISIN code)	SG79A8000002	XS1480822516
3	Governing law(s) of the instrument	Singapore	Singapore
	Regulatory treatment		
4	Transitional Basel III rules	Tier 2	Tier 2
5	Post-transitional Basel III rules	Tier 2	Tier 2
6	Eligible at solo/group/group&solo	Group & Solo	Group & Solo
7	Instrument type	Subordinated Debt	Subordinated Debt
8	Amount recognised in regulatory capital *(in millions)*	S$741 million	S$121 million
9	Principal amount *(in millions)*	S$750 million	HK$700 million
10	Accounting classification	Liability	Liability
11	Original date of issuance	27 February 2017	26 August 2016
12	Perpetual or dated	Dated	Dated
13	Original maturity date	27 February 2029	26 August 2028
14	Issuer call subject to prior supervisory approval	Yes	Yes
15	Optional call date	27 February 2024	26 August 2023
	Tax/ regulatory event call	Yes	Yes
	Redemption price	Par	Par
16	Subsequent call dates, if applicable	Not applicable. One time call only.	Not applicable. One time call only.
	Coupons / dividends		
17	Fixed or floating [1]	Fixed	Fixed
18	Coupon rate and any related index	3.50% paid semi-annually on 27 February and 27 August	3.19% paid quarterly on 26 August, 26 November, 26 February and 26 May
19	Existence of a dividend stopper	No	No
20	Fully discretionary, discretionally or mandatory	Mandatory	Mandatory
21	Existence of step up or incentive to redeem	No	No
22	Non-cumulative or cumulative	Cumulative	Cumulative
23	Convertible or non-convertible	Non-convertible	Non-convertible
24	If convertible, conversion trigger	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 triggers(s)	The earlier of: (i) the MAS notifying the Issuer in writing that it is of the opinion that a write-down is necessary, without which the Issuer would become non-viable; and (ii) a decision by the MAS to make a public sector injection of capital, or equivalent support, without which the Issuer would have become non-viable, as determined by the MAS	The earlier of: (i) the MAS notifying the Issuer in writing that it is of the opinion that a write-down is necessary, without which the Issuer would become non-viable; and (ii) a decision by the MAS to make a public sector injection of capital, or equivalent support, without which the Issuer would have become non-viable, as determined by the MAS
32	If write-down, full or partial	Full or partial	Full or partial
33	If write-down, permanent or temporary	Permanent	Permanent
34	If temporary write-down, description of write-up mechanism	n.a.	n.a.
35	Position in subordination hierarchy in liquidation *(instrument type immediately senior to instrument)*	Senior creditors	Senior creditors
36	Non compliant transitioned features	No	No
37	If yes, specify non compliant features	n.a.	n.a.

[1] Details on re-fixing of the dividend/interest rate on the first call date are available in the UOB website.

4 Leverage Ratio

The Basel III framework introduced Leverage Ratio as a non-risk-based backstop limit to supplement the risk-based capital requirements. It aims to constrain the build-up of excess leverage in the banking sector, with additional safeguards against model risk and measurement errors. Leverage ratio is expressed as Tier 1 Capital against Exposure Measure, which comprises on- and off-balance sheet items. Other than the difference in scope for consolidation and aggregation under SFRS and MAS Notice 637, there are no material differences between total balance sheet assets (net of on-balance sheet derivative and SFT assets) as reported in the financial statements and Exposure Measure of on-balance sheet items.

4.1 Leverage Ratio Summary Comparison Table

The following disclosure is presented in prescribed templates under MAS Notice 637 Annex 11F and 11G.

Reconciliation of Balance Sheet Assets to Exposure Measure[4]

$m		30 Jun 2023
1	Total consolidated assets as per published financial statements	505,563
2	Adjustment for investments in entities that are consolidated for accounting purposes but are outside the regulatory scope of consolidation	(464)
3	Adjustment for fiduciary assets recognised on the balance sheet in accordance with the Accounting Standards but excluded from the calculation of the exposure measure	-
4	Adjustment for derivative transactions	4,388
5	Adjustment for SFTs	606
6	Adjustment for off-balance sheet items	58,689
7	Other adjustments	(5,649)
8	**Exposure measure**	**563,133**

[4] Computed using quarter-end balances

4.2 Leverage Ratio Common Disclosure Template

Exposure Measure Components[4]

$m		30 Jun 2023	31 Mar 2023
	Exposure measures of on-balance sheet items		
1	On-balance sheet items (excluding derivative transactions and SFTs, but including on-balance sheet collateral for derivative transactions or SFTs)	482,619	478,281
2	Asset amounts deducted in determining Tier 1 capital	(5,649)	(5,621)
3	**Total exposure measures of on-balance sheet items** (excluding derivative transactions and SFTs)	**476,970**	**472,660**
	Derivative exposure measures		
4	Replacement cost associated with all derivative transactions (net of the eligible cash portion of variation margins)	11,796	10,207
5	Potential future exposure associated with all derivative transactions	6,930	7,451
6	Gross-up for derivative collaterals provided where deducted from the balance sheet assets in accordance with the Accounting Standards	-	-
7	Deductions of receivables for the cash portion of variation margins provided in derivative transactions	-	-
8	CCP leg of trade exposures excluded	-	-
9	Adjusted effective notional amount of written credit derivatives	126	79
10	Further adjustments in effective notional amounts and deductions from potential future exposures of written credit derivatives	-	-
11	**Total derivative exposure measures**	**18,852**	**17,737**
	SFT exposure measures		
12	Gross SFT assets (with no recognition of accounting netting), after adjusting for sales accounting	8,016	11,040
13	Eligible netting of cash payables and cash receivables	-	-
14	SFT counterparty exposures	606	552
15	SFT exposure measures where a Reporting Bank acts as an agent in the SFTs	-	-
16	**Total SFT exposure measures**	**8,622**	**11,592**
	Exposure measures of off-balance sheet items		
17	Off-balance sheet items at notional amount	275,167	277,928
18	Adjustments for calculation of exposure measures of off-balance sheet items	(216,478)	(215,586)
19	**Total exposure measures of off-balance sheet items**	**58,689**	**62,342**
	Capital and Total exposures		
20	**Tier 1 capital**	**39,472**	**39,731**
21	**Total exposures**	**563,133**	**564,331**
	Leverage ratio		
22	**Leverage ratio**	**7.0%**	**7.0%**

[4] Computed using quarter-end balances

The Group's leverage ratio maintained at 7.0% as at 30 June 2023.

5 Macroprudential Supervisory Measures

5.1 Geographical Distribution of Credit Exposures Used in the Countercyclical Capital Buffer

To achieve the broader macroprudential goal of protecting the banking sector from periods of excess aggregate credit growth, the Basel III standards introduced the Countercyclical Capital Buffer (CCyB) framework. The CCyB is applied on a discretionary basis by banking supervisors in the respective jurisdictions.

The Group's countercyclical buffer is computed as the weighted average of effective CCyB in jurisdictions where the Group has private sector credit exposures and the geographical distribution of the private sector credit exposures is based on where the ultimate risk of the exposure resides. Following mandatory disclosure under MAS Notice 637 provides an overview of the Group's private sector credit exposures by geographical breakdown.

Countercyclical Capital Buffer as at 30 June 2023

$m	(a)	(b)	(c)	(d)
Geographical breakdown	Country-specific countercyclical buffer requirement	RWA for private sector credit exposures used in the computation of the countercyclical buffer	Bank-specific countercyclical buffer requirement	Countercyclical buffer amount
Hong Kong	1.00%	16,851		
Luxembourg	0.50%	547		
Sweden	2.00%	1		
United Kingdom	1.00%	4,670		
Australia	1.00%	7,899		
Germany	0.75%	363		
France	0.50%	3		
Netherlands	1.00%	243		
Sum		30,577		
Total		213,846	0.1%	372

Countercyclical Capital Buffer as at 31 December 2022

$m	(a)	(b)	(c)	(d)
Geographical breakdown	Country-specific countercyclical buffer requirement	RWA for private sector credit exposures used in the computation of the countercyclical buffer	Bank-specific countercyclical buffer requirement	Countercyclical buffer amount
Hong Kong	1.00%	16,334		
Luxembourg	0.50%	700		
Sweden	1.00%	1		
United Kingdom	1.00%	4,346		
Sum		21,381		
Total		210,473	0.1%	259

6 Overview of RWA

The table below lists the Group's RWA by risk type and approach, as prescribed under MAS Notice 637. The minimum capital requirement is stated at 10.0% of RWA.

Total RWA was $5.3 billion higher quarter-on-quarter mainly due to increase in loan growth and changes in asset quality.

		(a)	(b)	(c)
		RWA		Minimum capital requirements
$m		As at 30 Jun 2023	As at 31 Mar 2023	As at 30 Jun 2023
1	Credit risk (excluding CCR)	219,688	215,010	21,970
2	*of which: Standardised Approach*	36,220	36,595	3,622
3	*of which: F-IRBA*	160,986	156,106	16,099
4	*of which: supervisory slotting*	5,395	5,114	540
5	*of which: A-IRBA*	17,087	17,195	1,709
6	CCR	5,212	5,500	521
7	*of which: SA-CCR*	4,131	4,085	413
8	*of which: CCR internal models method*	-	-	-
9	*of which: other CCR*	403	709	40
9a	*of which: CCP*	678	706	68
10	CVA	2,312	2,473	231
11	Equity exposures under the simple risk weight method	-	-	-
11a	Equity exposures under the IMM	-	-	-
12	Equity investments in funds - look through approach	8	7	1
13	Equity investments in funds - mandate-based approach	3,051	3,015	305
14	Equity investments in funds - fall back approach	#	#	#
14a	Equity investment in funds - partial use of an approach	-	-	-
15	Unsettled transactions	-	-	-
16	Securitisation exposures in the banking book	453	431	45
17	*of which: SEC-IRBA*	-	-	-
18	*of which: SEC-ERBA, including IAA*	302	287	30
19	*of which: SEC-SA*	151	144	15
20	Market risk	9,524	8,866	952
21	*of which: SA(MR)*	9,524	8,866	952
22	*of which: IMA*	-	-	-
23	Operational risk	19,461	18,895	1,946
24	Amounts below the thresholds for deduction (subject to 250% risk weight)	3,690	3,941	369
25	Floor adjustment	-	-	-
26	Total	263,399	258,138	26,340

7 Credit Risk

7.1 Credit Quality of Assets

Please refer to UOB Annual Report 2022, Risk Management section – Credit Risk and summary of significant accounting policies under the notes to financial statements.

The table below provides an overview of the credit quality of the Group's on- and off-balance sheet assets.

A default on the obligor is considered to have occurred when either or both of the followings have taken place:

- The obligor is unlikely to pay its credit obligations to the Group in full, without recourse by the bank to actions such as realising security (if held).
- The obligor is past due more than 90 days on any credit obligation to the Group. Overdrafts will be considered as being past due once the outstanding has breached an advised limit.

As at 30 June 2023

		(a)	(b)	(c)	(d)	(e)	(f)	(g)
		Gross carrying amount of			of which: allowances for standardised approach exposures			
$m		Defaulted exposures	Non-defaulted exposures	Allowances and impairments	of which: specific allowances	of which: general allowances	of which: allowances for IRBA exposures	Net values (a+b-c)
1	Loans	5,102	313,876	4,329	226	611	3,492	314,649
2	Debt securities	14	68,252	76	-	30	46	68,190
3	Off-balance sheet	66	89,394	314	-	39	275	89,146
4	**Total**	**5,182**	**471,522**	**4,719**	**226**	**680**	**3,813**	**471,985**

As at 31 December 2022

		(a)	(b)	(c)	(d)	(e)	(f)	(g)
		Gross carrying amount of			of which: allowances for standardised approach exposures			
$m		Defaulted exposures	Non-defaulted exposures	Allowances and impairments	of which: specific allowances	of which: general allowances	of which: allowances for IRBA exposures	Net values (a+b-c)
1	Loans	5,060	314,603	4,308	135	617	3,556	315,355
2	Debt securities	15	62,505	57	-	26	31	62,463
3	Off-balance sheet	42	91,652	222	-	41	181	91,472
4	**Total**	**5,117**	**468,760**	**4,587**	**135**	**684**	**3,768**	**469,290**

7.2 Changes in Stock of Defaulted Loans and Debt Securities

The table provides the change in defaulted exposures, the flows between non-defaulted and defaulted exposure categories and reductions in the defaulted exposures due to write-offs.

The increase in defaulted loans and debt securities in the first half of 2023 was mainly due to higher inflow of new defaulted loans relative to the outflow of defaulted loans from recoveries, write-off and returned to non-defaulted status. Other changes mainly comprise of recoveries and foreign exchange.

As at 30 June 2023

$m		(a)
1	**Defaulted loans and debt securities at end of the previous semi-annual reporting period**	**5,075**
2	Loans and debt securities that have defaulted since the previous semi-annual reporting period	855
3	Returned to non-defaulted status	(123)
4	Amounts written-off	(379)
5	Other changes	(312)
6	**Defaulted loans and debt securities at end of the semi-annual reporting period (1+2+3+4+/-5)**	**5,116**

7.3 Overview of CRM Techniques

The following table provides information on the extent of usage of CRM techniques.

Compared with 31 December 2022, the increase in loans and debt securities exposure balances were in line with overall balance sheet movement.

As at 30 June 2023

		(a)	(b)	(c)	(d)	(e)
$m		Exposures Unsecured	Exposures Secured	Exposures secured by collateral	Exposures secured by financial guarantees	Exposures secured by credit derivatives
1	Loans	175,079	139,570	114,537	18,195	-
2	Debt Securities	66,800	1,390	99	1,278	-
3	**Total**	**241,879**	**140,960**	**114,636**	**19,473**	**-**
4	Of which: defaulted	1,603	1,492	1,387	-	-

As at 31 December 2022

		(a)	(b)	(c)	(d)	(e)
$m		Exposures Unsecured	Exposures Secured	Exposures secured by collateral	Exposures secured by financial guarantees	Exposures secured by credit derivatives
1	Loans	171,250	144,105	117,610	20,480	-
2	Debt Securities	60,569	1,894	39	1,811	-
3	**Total**	**231,819**	**145,999**	**117,649**	**22,291**	**-**
4	Of which: defaulted	1,487	1,577	1,468	-	-

7.4 SA(CR) and SA(EQ) – Credit Risk Exposure and CRM Effects

The following table illustrates the effects of CRM on the calculation of Group's capital requirements for credit exposures under SA(CR) and SA(EQ).

Compared with 31 December 2022, the decrease in RWA was mainly due to lower exposures in Bank and Corporate asset classes.

As at 30 June 2023

		(a)	(b)	(c)	(d)	(e)	(f)
		Exposures before CCF and CRM		Exposures post-CCF and post-CRM		RWA and RWA density	
	Asset classes and others	On-balance sheet amount $m	Off-balance sheet amount $m	On-balance sheet amount $m	Off-balance sheet amount $m	RWA $m	RWA density %
1	Cash items	3,243	-	3,243	-	7	0
2	Central government and central bank	2,840	-	2,840	-	248	9
3	PSE	7,276	2,246	7,787	528	1,517	18
4	MDB	529	52	529	15	15	3
5	Bank	766	413	900	9	422	46
6	Corporate	14,023	17,175	11,635	2,473	13,901	99
7	Regulatory retail	7,892	16,598	7,398	17	5,561	75
8	Residential mortgage	3,182	10	3,182	1	1,290	41
9	CRE	1,620	1,094	1,541	84	1,625	100
10	Equity - SA(EQ)	3,011	167	1,535	167	2,934	172
11	Past due exposures	271	10	271	#	334	123
12	Higher-risk categories	-	-	-	-	-	-
13	Other exposures	9,226	2,983	7,701	665	8,366	100
14	**Total**	**53,879**	**40,748**	**48,562**	**3,959**	**36,220**	**69**

As at 31 December 2022

		(a)	(b)	(c)	(d)	(e)	(f)
		Exposures before CCF and CRM		Exposures post-CCF and post-CRM		RWA and RWA density	
	Asset classes and others	On-balance sheet amount $m	Off-balance sheet amount $m	On-balance sheet amount $m	Off-balance sheet amount $m	RWA $m	RWA density %
1	Cash items	3,169	-	3,169	-	15	0
2	Central government and central bank	3,219	-	3,219	-	338	10
3	PSE	7,042	2,717	8,029	606	1,415	16
4	MDB	95	57	118	17	#	#
5	Bank	1,111	160	1,237	12	623	50
6	Corporate	13,760	17,365	11,536	3,031	14,192	97
7	Regulatory retail	7,621	16,150	7,283	15	5,474	75
8	Residential mortgage	3,532	14	3,532	1	1,418	40
9	CRE	1,536	1,245	1,460	174	1,634	100
10	Equity - SA(EQ)	3,174	165	1,558	165	2,967	172
11	Past due exposures	275	10	276	#	368	133
12	Higher-risk categories	-	-	-	-	-	-
13	Other exposures	9,244	2,949	7,768	537	8,305	100
14	**Total**	**53,778**	**40,832**	**49,185**	**4,558**	**36,749**	**68**

7.5 SA(CR) and SA(EQ) – Exposures by Asset Classes and Risk Weights

The following table provides a breakdown of Group's credit risk exposures under SA(CR) and SA(EQ) by asset class and risk weight.

Compared with 31 December 2022, the decrease in exposure was mainly from corporate and central government and central bank asset classes.

As at 30 June 2023

$m		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
	Risk weight / Asset classes and others	0%	10%	20%	35%	50%	75%	100%	150%	Others	Total credit exposure amount (post-CCF and post-CRM)
1	Cash items	3,209	-	34	-	-	-	-	-	-	3,243
2	Central government and central bank	2,344	-	-	-	496	-	-	-	-	2,840
3	PSE	2,873	-	4,016	-	1,427	-	-	-	-	8,316
4	MDB	515	-	-	-	30	-	-	-	-	545
5	Bank	-	-	114	-	791	-	3	-	-	908
6	Corporate	-	-	159	-	221	-	13,665	63	-	14,108
7	Regulatory retail	-	-	-	-	-	7,415	-	-	-	7,415
8	Residential mortgage	-	-	-	2,845	-	173	165	-	-	3,183
9	CRE	-	-	-	-	-	-	1,625	-	-	1,625
10	Equity - SA(EQ)	-	-	-	-	-	-	-	-	1,702	1,702
11	Past due exposures	-	-	-	-	-	-	145	126	-	271
12	Higher-risk categories	-	-	-	-	-	-	-	-	-	-
13	Other exposures	-	-	-	-	-	-	8,366	-	-	8,366
14	**Total**	**8,941**	**-**	**4,323**	**2,845**	**2,965**	**7,588**	**23,969**	**189**	**1,702**	**52,522**

As at 31 December 2022

$m		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
	Risk weight / Asset classes and others	0%	10%	20%	35%	50%	75%	100%	150%	Others	Total credit exposure amount (post-CCF and post-CRM)
1	Cash items	3,096	-	73	-	-	-	-	-	-	3,169
2	Central government and central bank	2,544	-	-	-	675	-	-	-	-	3,219
3	PSE	3,546	-	3,766	-	1,323	-	-	-	-	8,635
4	MDB	135	-	-	-	#	-	-	-	-	135
5	Bank	-	-	177	-	968	-	104	-	-	1,249
6	Corporate	-	-	441	-	163	-	13,843	120	-	14,567
7	Regulatory retail	-	-	-	-	-	7,298	-	-	-	7,298
8	Residential mortgage	-	-	-	3,187	-	178	168	-	-	3,533
9	CRE	-	-	-	-	-	-	1,634	-	-	1,634
10	Equity - SA(EQ)	-	-	-	-	-	-	-	-	1,723	1,723
11	Past due exposures	-	-	-	-	-	-	92	184	-	276
12	Higher-risk categories	-	-	-	-	-	-	-	-	-	-
13	Other exposures	-	-	-	-	-	-	8,305	-	-	8,305
14	**Total**	**9,321**	**-**	**4,457**	**3,187**	**3,129**	**7,476**	**24,146**	**304**	**1,723**	**53,743**

7.6 IRBA - Credit Risk Exposures by Portfolio and PD Range

The following table provides the main parameters used for the calculation of capital requirements for credit exposures under IRBA.

(A) Main parameters used for calculations of capital requirements for credit exposures under FIRB

As at 30 June 2023

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)
PD range %	Original on-balance sheet gross exposures $m	Off-balance sheet exposures pre-CCF $m	Average CCF %	EAD post-CRM and post-CCF $m	Average PD %	Number of Obligors	Average LGD %	Average Maturity Years	RWA $m	RWA density %	EL $m	TEP $m
Sovereign												
0.00 to < 0.15	84,207	2,336	3	86,501	0.0	30	45	2.0	4,137	5	4	
0.15 to <0.25	182	-	-	182	0.2	1	45	4.3	122	67	#	
0.25 to <0.50	15	-	-	15	0.3	1	45	0.7	6	41	#	
0.50 to <0.75	101	-	-	101	0.6	2	45	1.0	60	59	#	
0.75 to < 2.50	119	-	-	119	0.9	2	45	3.1	123	103	#	
2.50 to < 10.00	-	-	-	-	-	-	-	-	-	-	-	
10.00 to <100.00	18	#	-	12	18.5	1	45	0.0	26	221	1	
100.00 (Default)	-	-	-	-	-	-	-	-	-	-	-	
Sub-total	**84,642**	**2,336**	**3**	**86,930**	**0.0**	**37**	**45**	**2.0**	**4,474**	**5**	**5**	**64**
Bank												
0.00 to < 0.15	26,937	1,617	58	28,189	0.0	164	45	1.3	4,222	15	5	
0.15 to <0.25	1,653	14	89	1,668	0.2	16	45	0.6	654	39	2	
0.25 to <0.50	610	216	15	643	0.3	15	45	0.5	313	49	1	
0.50 to <0.75	300	68	41	329	0.6	5	45	0.3	215	65	1	
0.75 to < 2.50	1,077	99	32	1,109	1.2	10	45	0.5	853	77	6	
2.50 to < 10.00	381	12	100	392	4.3	6	45	0.2	488	124	8	
10.00 to <100.00	2	#	-	3	18.5	7	42	0.1	5	207	#	
100.00 (Default)	-	-	-	-	-	-	-	-	-	-	-	
Sub-total	**30,960**	**2,026**	**52**	**32,333**	**0.2**	**223**	**45**	**1.2**	**6,750**	**21**	**23**	**96**
Corporate												
0.00 to < 0.15	14,592	32,841	19	22,989	0.1	356	44	1.7	4,874	21	8	
0.15 to <0.25	5,236	18,628	13	7,656	0.2	355	44	1.5	2,816	37	7	
0.25 to <0.50	23,845	34,246	16	34,558	0.4	861	44	1.6	18,711	54	58	
0.50 to <0.75	5,601	10,389	15	7,453	0.5	406	44	1.5	4,757	64	17	
0.75 to < 2.50	27,479	34,124	16	32,483	1.2	1,588	41	1.4	26,849	83	169	
2.50 to < 10.00	11,605	12,216	16	9,296	5.9	650	35	1.2	10,282	111	167	
10.00 to <100.00	1,713	2,208	11	859	15.5	207	37	1.3	1,526	178	49	
100.00 (Default)	1,572	887	7	1,630	100.0	111	43	1.6	-	-	703	
Sub-total	**91,643**	**145,539**	**16**	**116,924**	**2.5**	**4,534**	**42**	**1.5**	**69,815**	**60**	**1,178**	**1,739**
Corporate small business												
0.00 to < 0.15	410	1,207	2	433	0.1	15	45	1.8	108	25	#	
0.15 to <0.25	134	1,185	10	288	0.2	229	35	1.6	73	25	#	
0.25 to <0.50	743	2,514	11	1,327	0.4	581	39	2.0	649	49	2	
0.50 to <0.75	871	1,851	7	1,472	0.5	452	41	2.0	845	57	3	
0.75 to < 2.50	7,626	7,917	10	9,235	1.4	2,956	39	1.9	6,985	76	51	
2.50 to < 10.00	6,460	4,161	13	6,101	5.2	2,407	37	1.8	6,361	104	121	
10.00 to <100.00	1,284	773	11	1,026	18.6	545	36	1.7	1,744	170	68	
100.00 (Default)	943	156	9	956	100.0	227	42	1.9	-	-	401	
Sub-total	**18,471**	**19,764**	**10**	**20,838**	**7.7**	**7,412**	**39**	**1.9**	**16,765**	**80**	**646**	**556**
Specialised lending - IPRE												
0.00 to < 0.15	-	-	-	-	-	-	-	-	-	-	-	
0.15 to <0.25	8,564	2,532	59	9,952	0.2	118	45	1.7	3,753	38	9	
0.25 to <0.50	27,469	5,480	66	30,776	0.4	358	45	2.0	18,116	59	52	
0.50 to <0.75	9,276	1,235	58	9,995	0.5	164	45	2.0	6,903	69	23	
0.75 to < 2.50	27,937	4,004	44	27,683	1.2	782	45	1.9	26,007	94	150	
2.50 to < 10.00	5,760	900	20	5,099	6.0	336	45	1.8	7,992	157	137	
10.00 to <100.00	255	25	19	162	24.6	18	45	2.3	412	255	18	
100.00 (Default)	786	18	17	789	100.0	52	45	1.1	-	-	355	
Sub-total	**80,047**	**14,194**	**55**	**84,456**	**2.0**	**1,828**	**45**	**1.9**	**63,183**	**75**	**744**	**1,030**
Total (sum of portfolios)	**305,763**	**183,859**	**19**	**341,481**	**1.8**	**14,034**	**44**	**1.7**	**160,987**	**47**	**2,596**	**3,485**

7.6 IRBA – Credit Risk Exposures by Portfolio and PD Range *(cont'd)*

As at 31 December 2022

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)
PD range %	Original on-balance sheet gross exposures $m	Off-balance sheet exposures pre-CCF $m	Average CCF %	EAD post-CRM and post-CCF $m	Average PD %	Number of Obligors	Average LGD %	Average Maturity Years	RWA $m	RWA density %	EL $m	TEP $m
Sovereign												
0.00 to < 0.15	76,212	1,887	1	78,886	0.0	31	45	2.0	3,714	5	4	
0.15 to <0.25	239	-	-	239	0.2	1	45	3.7	146	61	#	
0.25 to <0.50	24	-	-	24	0.4	1	47	0.9	11	46	#	
0.50 to <0.75	92	-	-	92	0.6	2	45	1.0	54	59	#	
0.75 to < 2.50	139	-	-	139	0.9	2	45	3.2	146	106	1	
2.50 to < 10.00	-	-	-	-	-	-	-	-	-	-	-	
10.00 to <100.00	15	-	-	9	16.6	1	40	0.0	19	208	1	
100.00 (Default)	-	-	-	-	-	-	-	-	-	-	-	
Sub-total	**76,721**	**1,887**	**1**	**79,389**	**0.0**	**38**	**45**	**2.0**	**4,090**	**5**	**6**	**58**
Bank												
0.00 to < 0.15	28,718	1,206	62	29,757	0.0	168	45	1.3	4,470	15	5	
0.15 to <0.25	1,891	38	48	1,912	0.2	17	45	0.7	743	39	2	
0.25 to <0.50	431	502	8	471	0.4	14	45	0.9	236	50	1	
0.50 to <0.75	227	118	82	324	0.6	7	45	0.2	208	64	1	
0.75 to < 2.50	943	151	52	1,022	1.0	11	45	0.5	735	72	5	
2.50 to < 10.00	772	11	100	760	4.3	8	45	0.4	956	126	15	
10.00 to <100.00	53	1	92	54	27.4	12	45	0.0	142	264	6	
100.00 (Default)	-	-	-	-	-	-	-	-	-	-	-	
Sub-total	**33,035**	**2,027**	**49**	**34,300**	**0.2**	**237**	**45**	**1.2**	**7,490**	**22**	**35**	**107**
Corporate												
0.00 to < 0.15	12,287	30,655	20	21,342	0.1	337	44	1.7	4,481	21	8	
0.15 to <0.25	4,899	19,301	14	8,542	0.2	362	40	1.5	2,941	34	7	
0.25 to <0.50	24,625	36,295	19	36,257	0.4	783	44	1.7	20,209	56	62	
0.50 to <0.75	8,912	9,230	15	9,486	0.5	341	43	1.8	6,279	66	21	
0.75 to < 2.50	25,605	32,827	16	31,525	1.3	1,576	42	1.5	26,408	84	164	
2.50 to < 10.00	11,017	13,607	15	8,302	4.8	660	34	1.2	8,387	101	123	
10.00 to <100.00	1,902	2,312	11	1,016	14.9	252	38	1.3	1,859	183	57	
100.00 (Default)	1,585	531	9	1,631	99.9	108	43	1.8	-	-	704	
Sub-total	**90,832**	**144,758**	**17**	**118,101**	**2.4**	**4,419**	**42**	**1.6**	**70,564**	**60**	**1,146**	**1,751**
Corporate small business												
0.00 to < 0.15	136	230	3	24	0.1	10	45	1.7	5	20	#	
0.15 to <0.25	115	1,115	10	266	0.2	235	35	1.7	68	26	#	
0.25 to <0.50	1,047	2,659	13	1,629	0.4	587	39	1.9	800	49	3	
0.50 to <0.75	575	1,743	9	1,094	0.5	428	40	2.3	633	58	2	
0.75 to < 2.50	8,017	7,711	10	9,240	1.4	3,040	38	1.9	7,147	77	50	
2.50 to < 10.00	7,064	4,186	13	6,450	5.1	2,449	37	1.8	6,888	107	121	
10.00 to <100.00	1,040	841	18	967	19.5	546	38	2.1	1,815	188	72	
100.00 (Default)	981	185	12	1,003	100.0	230	42	1.9	-	-	424	
Sub-total	**18,975**	**18,670**	**11**	**20,673**	**8.0**	**7,525**	**38**	**1.9**	**17,356**	**84**	**672**	**616**
Specialised lending - IPRE												
0.00 to < 0.15	-	-	-	-	-	-	-	-	-	-	-	
0.15 to <0.25	12,818	4,349	61	15,341	0.2	189	45	1.9	6,057	39	13	
0.25 to <0.50	30,733	6,137	67	34,610	0.4	437	45	2.1	20,443	59	58	
0.50 to <0.75	6,195	740	34	6,449	0.5	141	45	2.2	4,583	71	15	
0.75 to < 2.50	23,578	3,089	41	22,091	1.2	708	45	2.0	21,161	96	121	
2.50 to < 10.00	4,022	906	32	3,650	3.9	310	45	2.3	5,198	142	64	
10.00 to <100.00	248	50	11	211	22.7	21	45	2.7	537	254	22	
100.00 (Default)	550	15	1	550	100.0	45	45	1.2	-	-	248	
Sub-total	**78,144**	**15,286**	**56**	**82,902**	**1.4**	**1,851**	**45**	**2.0**	**57,979**	**70**	**540**	**933**
Total (sum of portfolios)	**297,707**	**182,628**	**20**	**335,365**	**1.7**	**14,070**	**44**	**1.8**	**157,479**	**47**	**2,399**	**3,465**

7.6 IRBA - Credit Risk Exposures by Portfolio and PD Range *(cont'd)*

(B) Main parameters used for calculations of capital requirements for credit exposures under AIRB

As at 30 June 2023

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)
PD range %	Original on-balance sheet gross exposures $m	Off-balance sheet exposures pre-CCF $m	Average CCF %	EAD post-CRM and post-CCF $m	Average PD %	Number of Obligors	Average LGD %	Average Maturity Years	RWA $m	RWA density %	EL $m	TEP $m
Residential mortgage												
0.00 to < 0.15	234	215	104	457	0.1	5,407	22		20	4	#	
0.15 to <0.25	25,503	1,246	100	26,749	0.2	51,984	13		1,313	5	6	
0.25 to <0.50	22,208	2,302	65	23,706	0.3	100,123	13		1,766	7	9	
0.50 to <0.75	16,016	1,051	99	17,060	0.7	33,478	11		1,840	11	12	
0.75 to < 2.50	10,571	578	37	10,785	1.3	65,034	16		2,649	25	22	
2.50 to < 10.00	1,092	83	62	1,143	3.8	12,715	19		663	58	9	
10.00 to <100.00	1,131	31	47	1,146	22.0	6,585	19		1,179	103	50	
100.00 (Default)	741	#	-	741	100.0	4,232	24		477	64	172	
Sub-total	**77,496**	**5,506**	**78**	**81,787**	**1.7**	**268,891**	**13**		**9,907**	**12**	**280**	**311**
QRRE												
0.00 to < 0.15	1,003	5,868	25	2,493	0.1	433,413	50		77	3	1	
0.15 to <0.25	597	4,506	53	3,005	0.2	622,350	58		193	6	3	
0.25 to <0.50	309	3,593	48	2,022	0.3	606,571	46		144	7	3	
0.50 to <0.75	464	1,079	52	1,020	0.6	163,643	51		142	14	3	
0.75 to < 2.50	982	2,421	54	2,294	1.4	360,776	48		587	26	16	
2.50 to < 10.00	623	562	64	985	5.6	209,963	61		805	82	33	
10.00 to <100.00	258	189	57	367	31.0	95,873	60		536	146	63	
100.00 (Default)	47	-	-	47	100.0	11,077	69		76	161	27	
Sub-total	**4,283**	**18,218**	**44**	**12,233**	**2.2**	**2,148,457**	**52**		**2,560**	**21**	**149**	**64**
Other retail exposures (excluding exposures to small business)												
0.00 to < 0.15	48	305	32	145	0.1	2,582	40		15	11	#	
0.15 to <0.25	611	115	52	671	0.2	19,842	15		39	6	#	
0.25 to <0.50	15	80	50	55	0.3	1,148	19		6	10	#	
0.50 to <0.75	3,641	454	51	3,873	0.6	23,061	10		331	9	2	
0.75 to < 2.50	4,070	832	78	4,722	1.8	23,793	6		373	8	5	
2.50 to < 10.00	306	101	81	388	5.2	39,523	46		284	73	10	
10.00 to <100.00	230	40	80	262	25.1	55,015	45		261	99	28	
100.00 (Default)	97	0	100	97	100.0	15,914	31		130	134	24	
Sub-total	**9,018**	**1,927**	**62**	**10,213**	**2.9**	**177,708**	**12**		**1,439**	**14**	**69**	**47**
Other retail small business exposures												
0.00 to < 0.15	8	46	66	38	0.1	226	9		1	2	#	
0.15 to <0.25	583	508	67	922	0.2	3,544	21		81	9	#	
0.25 to <0.50	3,067	871	60	3,586	0.4	12,701	23		524	15	3	
0.50 to <0.75	1,174	303	57	1,345	0.5	5,411	24		251	19	2	
0.75 to < 2.50	3,464	1,164	48	4,022	1.3	15,825	29		1,365	34	15	
2.50 to < 10.00	1,154	279	42	1,272	4.8	6,774	31		612	48	18	
10.00 to <100.00	226	23	38	235	21.4	1,302	27		151	64	14	
100.00 (Default)	179	13	5	180	100.0	962	28		195	109	44	
Sub-total	**9,855**	**3,207**	**54**	**11,600**	**3.1**	**46,742**	**26**		**3,180**	**27**	**96**	**89**
Total (sum of portfolios)	**100,652**	**28,858**	**53**	**115,833**	**2.0**	**2,441,463**	**18**		**17,086**	**15**	**594**	**511**

As at 30 June 2023, the Group did not use credit derivatives as credit risk mitigant for exposures in its Banking book.

7.6 IRBA - Credit Risk Exposures by Portfolio and PD Range *(cont'd)*

As at 31 December 2022

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)
PD range %	Original on-balance sheet gross exposures $m	Off-balance sheet exposures pre-CCF $m	Average CCF %	EAD post-CRM and post-CCF $m	Average PD %	Number of Obligors	Average LGD %	Average Maturity Years	RWA $m	RWA density %	EL $m	TEP $m
Residential mortgage												
0.00 to < 0.15	53	231	104	293	0.1	4,685	14		11	4	#	
0.15 to <0.25	24,583	1,270	100	25,854	0.2	51,355	13		1,284	5	6	
0.25 to <0.50	22,283	2,293	66	23,790	0.3	97,469	12		1,725	7	9	
0.50 to <0.75	17,612	1,165	100	18,772	0.7	36,749	11		2,073	11	14	
0.75 to < 2.50	10,511	635	37	10,747	1.3	64,156	15		2,464	23	20	
2.50 to < 10.00	1,429	88	61	1,482	3.6	15,156	22		943	64	12	
10.00 to <100.00	1,049	25	41	1,060	21.6	6,839	19		1,132	107	45	
100.00 (Default)	818	#	0	818	100.0	4,687	25		482	59	191	
Sub-total	**78,338**	**5,707**	**78**	**82,816**	**1.8**	**269,575**	**13**		**10,114**	**12**	**297**	**335**
QRRE												
0.00 to < 0.15	1,018	5,622	26	2,457	0.1	434,980	50		75	3	1	
0.15 to <0.25	564	4,043	55	2,799	0.2	580,549	59		181	6	3	
0.25 to <0.50	297	3,406	48	1,928	0.3	569,586	47		139	7	3	
0.50 to <0.75	464	1,102	51	1,028	0.6	177,785	51		143	14	3	
0.75 to < 2.50	939	1,992	60	2,143	1.4	342,065	48		537	25	15	
2.50 to < 10.00	627	581	65	1,008	5.6	209,619	60		806	80	33	
10.00 to <100.00	287	295	49	432	33.7	111,562	57		604	140	75	
100.00 (Default)	48	-	-	48	100.0	10,811	68		68	143	27	
Sub-total	**4,244**	**17,041**	**45**	**11,843**	**2.5**	**2,079,919**	**53**		**2,553**	**22**	**160**	**64**
Other retail exposures (excluding exposures to small business)												
0.00 to < 0.15	48	287	33	144	0.1	2,219	39		15	11	#	
0.15 to <0.25	770	100	48	817	0.2	22,971	13		43	5	#	
0.25 to <0.50	14	75	51	53	0.3	980	19		5	10	#	
0.50 to <0.75	3,880	455	51	4,113	0.6	21,937	10		347	8	3	
0.75 to < 2.50	4,133	818	78	4,769	1.8	23,691	6		363	8	5	
2.50 to < 10.00	350	103	75	428	5.1	42,820	45		303	71	10	
10.00 to <100.00	223	55	78	266	25.6	53,459	49		290	109	32	
100.00 (Default)	102	#	100	102	100.0	9,530	30		122	120	23	
Sub-total	**9,520**	**1,893**	**62**	**10,692**	**2.8**	**174,498**	**12**		**1,488**	**14**	**73**	**45**
Other retail small business exposures												
0.00 to < 0.15	13	48	65	44	0.1	235	8		1	2	#	
0.15 to <0.25	629	498	68	966	0.2	3,639	21		82	9	#	
0.25 to <0.50	3,210	872	59	3,729	0.4	12,585	22		531	14	3	
0.50 to <0.75	1,203	308	55	1,371	0.5	5,406	24		257	19	2	
0.75 to < 2.50	3,507	1,041	48	4,010	1.3	15,255	28		1,307	33	15	
2.50 to < 10.00	1,159	252	43	1,266	4.8	5,162	30		582	46	18	
10.00 to <100.00	213	26	38	223	21.1	1,180	26		138	62	12	
100.00 (Default)	209	13	4	210	100.0	893	30		226	107	58	
Sub-total	**10,143**	**3,058**	**55**	**11,819**	**3.3**	**44,353**	**25**		**3,124**	**26**	**107**	**102**
Total (sum of portfolios)	**102,245**	**27,699**	**54**	**117,171**	**2.1**	**2,364,699**	**18**		**17,279**	**15**	**638**	**546**

As at 31 December 2022, the Group did not use credit derivatives as credit risk mitigant for exposures in its Banking book.

7.7 IRBA - Effect on RWA of Credit Derivatives used as CRM

The Group currently does not recognise credit derivatives as credit risk mitigant for exposures under IRBA.

7.8 IRBA - RWA Flow Statement for Credit Risk Exposures

The following table presents changes in RWA corresponding to credit risk only (excluding CCR) over the quarterly reporting period for each of the key drivers.

Compared to March 2023, the increase in Group's RWA was mainly due to corporate loan growth and changes in asset quality.

As at 30 June 2023

$m		(a) RWA amounts
1	**RWA as at end of previous quarter**	**178,415**
2	Asset size	2,127
3	Asset quality	2,441
4	Model updates	-
5	Methodology and policy	-
6	Acquisitions and disposals	-
7	Foreign exchange movements	485
8	Other	-
9	**RWA as at end of quarter**	**183,468**

7.9 IRBA - Specialised Lending

The following table provides the exposure amount and RWA of the Group's specialised lending portfolio under Supervisory Slotting Criteria.

Compared with 31 December 2022, there was no material increase in Exposure and RWA.

As at 30 June 2023

$m

Specialised lending												
Other than HVCRE												
					Exposure amount							
Regulatory categories	Remaining maturity	On-balance sheet amount	Off-balance sheet amount	Risk weight	PF	OF	CF	IPRE	Total	RWA	Expected Losses
Strong	< 2.5 years	1,201	13,484	50%	834	-	733	180	1,747	926	-
	≥ 2.5 years	2,100	772	70%	2,408	-	36	235	2,678	1,987	11
Good	< 2.5 years	542	1,376	70%	275	-	19	443	737	547	3
	≥ 2.5 years	1,030	593	90%	775	-	-	692	1,466	1,399	12
Satisfactory		246	123	115%	8	-	-	287	295	360	8
Weak		58	36	250%	23	-	-	43	66	176	5
Default		49	22	-	-	-	13	37	49	-	25
Total		**5,226**	**16,406**		**4,323**	**-**	**801**	**1,917**	**7,038**	**5,395**	**64**

As at 31 December 2022

$m

Specialised lending											
Other than HVCRE											
					Exposure amount						
Regulatory categories	Remaining maturity	On-balance sheet amount	Off-balance sheet amount	Risk weight	PF	OF	CF	IPRE	Total	RWA	Expected Losses
Strong	< 2.5 years	977	13,051	50%	237	-	1,162	305	1,704	903	-
	≥ 2.5 years	2,436	911	70%	2,815	-	37	246	3,098	2,299	13
Good	< 2.5 years	636	1,463	70%	300	-	30	484	815	604	3
	≥ 2.5 years	784	413	90%	711	-	-	374	1,085	1,035	9
Satisfactory		227	124	115%	1	-	-	266	266	324	7
Weak		73	38	250%	24	-	-	58	83	219	7
Default		52	19	-	-	-	15	38	52	-	26
Total		**5,185**	**16,019**		**4,088**	**-**	**1,244**	**1,771**	**7,103**	**5,384**	**65**

8 Counterparty Credit Risk (CCR)

8.1 Analysis of CCR Exposure by Approach

The following table provides the EAD, RWA and parameters used to calculate the Group's CCR regulatory requirements.

Compared with 31 December 2022, CCR RWA was lower due to overall improvement in risk density of derivatives portfolio.

As at 30 June 2023

		(a)	(b)	(c)	(d)	(e)	(f)
$m		Replacement cost	Potential future exposure	Effective EPE	α used for computing regulatory EAD	EAD (post-CRM)	RWA
1	SA-CCR (for derivatives)	2,962	5,582		1.4	11,961	4,131
2	CCR internal models method (for derivatives and SFTs)			-	-	-	-
3	FC(SA) (for SFTs)					-	-
4	FC(CA) (for SFTs)					17,203	403
5	VaR for SFTs					-	-
6	**Total**						**4,534**

As at 31 December 2022

		(a)	(b)	(c)	(d)	(e)	(f)
$m		Replacement cost	Potential future exposure	Effective EPE	α used for computing regulatory EAD	EAD (post-CRM)	RWA
1	SA-CCR (for derivatives)	2,565	4,874		1.4	10,415	4,424
2	CCR internal models method (for derivatives and SFTs)			-	-	-	-
3	FC(SA) (for SFTs)					-	-
4	FC(CA) (for SFTs)					24,018	813
5	VaR for SFTs					-	-
6	**Total**						**5,237**

8.2 CVA Risk Capital Requirements

The following table provides the Group's CVA risk capital requirements calculated under the Standardised Approach.

Compared to 31 December 2022, the increase in EAD mainly arose from foreign exchange derivatives.

As at 30 June 2023

$m		(a) EAD (post-CRM)	(b) RWA
	Total portfolios subject to the Advanced CVA capital requirement	-	-
1	(i) VaR component (including the three-times multiplier)		-
2	(ii) Stressed VaR component (including the three-times multiplier)		-
3	All portfolios subject to the Standardised CVA capital requirement	11,623	2,312
4	**Total portfolios subject to the CVA risk capital requirement**	**11,623**	**2,312**

As at 31 December 2022

$m		(a) EAD (post-CRM)	(b) RWA
	Total portfolios subject to the Advanced CVA capital requirement	-	-
1	(i) VaR component (including the three-times multiplier)		-
2	(ii) Stressed VaR component (including the three-times multiplier)		-
3	All portfolios subject to the Standardised CVA capital requirement	10,097	2,306
4	**Total portfolios subject to the CVA risk capital requirement**	**10,097**	**2,306**

8.3 Standardised Approach – CCR Exposures by Portfolio and Risk Weights

The following table provides a breakdown of the Group's CCR exposures under SA(CR) by asset class and risk weight.

Compared with 31 December 2022, the increase in exposure was mainly from central government and central bank asset class.

As at 30 June 2023

$m	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
Risk weight / Asset classes	0%	10%	20%	50%	75%	100%	150%	Others	Total Credit Exposure
Central government and central bank	1,950	-	-	9	-	-	-	-	1,959
PSE	50	-	20	135	-	-	-	-	205
MDB	100	-	-	60	-	-	-	-	160
Bank	-	-	7	144	-	8	-	-	159
Corporate	-	-	4	4	-	344	8	-	360
Regulatory retail	-	-	-	-	27	-	-	-	27
Other exposures	-	-	-	-	-	46	-	-	46
Total	2,100	-	31	352	27	398	8	-	2,916

As at 31 December 2022

$m	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
Risk weight / Asset classes	0%	10%	20%	50%	75%	100%	150%	Others	Total Credit Exposure
Central government and central bank	91	-	-	30	-	-	-	-	121
PSE	51	-	32	30	-	-	-	-	113
MDB	98	-	-	44	-	-	-	-	142
Bank	-	-	15	176	-	6	-	-	197
Corporate	-	-	6	3	-	260	#	-	269
Regulatory retail	-	-	-	-	1	-	-	-	1
Other exposures	-	-	-	-	-	50	-	-	50
Total	240	-	53	283	1	316	#	-	893

8.4 IRBA – CCR Exposures by Portfolio and PD Range

The following table sets out the relevant parameters used for the calculations of CCR capital requirements for IRBA models.

8.4 IRBA – CCR Exposures by Portfolio and PD Range *(cont'd)*

(A) Main parameters used for calculations of CCR capital requirements for FIRB models

As at 30 June 2023

	(a)	(b)	(c)	(d)	(e)	(f)	(g)
PD range %	EAD post-CRM $m	Average PD %	Number of obligors	Average LGD %	Average maturity Years	RWA $m	RWA density %
Sovereign							
0.00 to < 0.15	4,497	0.0	7	10	0.5	12	0
0.15 to <0.25	-	-	-	-	-	-	-
0.25 to <0.50	2	0.4	1	45	0.0	1	34
0.50 to <0.75	-	-	-	-	-	-	-
0.75 to < 2.50	-	-	-	-	-	-	-
2.50 to < 10.00	-	-	-	-	-	-	-
10.00 to <100.00	#	18.5	1	45	0.0	#	221
100.00 (Default)	-	-	-	-	-	-	-
Sub-total	**4,499**	**0.0**	**9**	**10**	**0.5**	**13**	**0**
Bank							
0.00 to < 0.15	11,603	0.1	134	28	0.5	1,033	9
0.15 to <0.25	1,076	0.2	14	36	0.2	248	23
0.25 to <0.50	336	0.3	9	32	0.5	122	36
0.50 to <0.75	139	0.6	3	3	0.0	5	4
0.75 to < 2.50	140	1.5	10	4	0.1	10	7
2.50 to < 10.00	2	4.3	3	45	0.5	3	125
10.00 to <100.00	#	27.9	2	45	0.0	#	268
100.00 (Default)	-	-	-	-	-	-	-
Sub-total	**13,296**	**0.1**	**175**	**28**	**0.5**	**1,421**	**11**
Corporate							
0.00 to < 0.15	1,470	0.1	107	41	1.3	271	18
0.15 to <0.25	1,920	0.2	72	15	0.4	265	14
0.25 to <0.50	2,045	0.4	188	17	0.5	426	21
0.50 to <0.75	908	0.5	72	29	0.6	333	37
0.75 to < 2.50	1,521	1.3	278	18	0.5	549	36
2.50 to < 10.00	283	4.2	98	45	1.8	397	140
10.00 to <100.00	6	21.6	13	45	1.2	15	241
100.00 (Default)	10	100.0	1	45	3.4	-	-
Sub-total	**8,163**	**0.8**	**829**	**23**	**0.7**	**2,256**	**28**
Corporate small business							
0.00 to < 0.15	4	0.1	2	45	3.8	2	38
0.15 to <0.25	11	0.2	32	45	0.1	2	18
0.25 to <0.50	13	0.4	52	44	0.8	7	55
0.50 to <0.75	8	0.5	41	45	1.8	4	53
0.75 to < 2.50	15	1.3	226	44	0.8	10	69
2.50 to < 10.00	4	5.0	128	42	0.7	5	112
10.00 to <100.00	#	16.7	20	42	0.5	#	189
100.00 (Default)	-	-	-	-	-	-	-
Sub-total	**55**	**1.0**	**501**	**44**	**1.0**	**30**	**55**
Specialised lending - IPRE							
0.00 to < 0.15	-	-	-	-	-	-	-
0.15 to <0.25	2	0.2	9	45	1.4	1	35
0.25 to <0.50	22	0.4	54	45	2.4	14	64
0.50 to <0.75	15	0.5	33	45	1.9	10	67
0.75 to < 2.50	98	1.0	56	45	2.2	91	93
2.50 to < 10.00	#	2.8	2	45	1.8	#	124
10.00 to <100.00	-	-	-	-	-	-	-
100.00 (Default)	-	-	-	-	-	-	-
Sub-total	**137**	**0.9**	**154**	**45**	**2.2**	**116**	**85**
Total (sum of portfolios)	**26,150**	**0.3**	**1,668**	**24**	**0.6**	**3,836**	**15**

8.4 IRBA – CCR Exposures by Portfolio and PD Range *(cont'd)*

(A) Main parameters used for calculations of CCR capital requirements for FIRB models

As at 31 December 2022

	(a)	(b)	(c)	(d)	(e)	(f)	(g)
PD range %	EAD post-CRM $m	Average PD %	Number of obligors	Average LGD %	Average maturity Years	RWA $m	RWA density %
Sovereign							
0.00 to < 0.15	7,551	0.0	7	8	0.5	23	0
0.15 to <0.25	-	-	-	-	-	-	-
0.25 to <0.50	8	0.3	1	45	0.0	3	34
0.50 to <0.75	-	-	-	-	-	-	-
0.75 to < 2.50	46	0.9	1	13	0.2	9	19
2.50 to < 10.00	-	-	-	-	-	-	-
10.00 to <100.00	-	-	-	-	-	-	-
100.00 (Default)	-	-	-	-	-	-	-
Sub-total	**7,605**	**0.0**	**9**	**8**	**0.5**	**35**	**0**
Bank							
0.00 to < 0.15	14,693	0.1	138	23	0.4	1,161	8
0.15 to <0.25	1,210	0.2	16	21	0.1	144	12
0.25 to <0.50	806	0.4	8	15	0.1	131	16
0.50 to <0.75	174	0.6	2	1	0.1	3	2
0.75 to < 2.50	4	0.9	6	45	0.6	3	70
2.50 to < 10.00	163	4.3	3	0	0.0	1	1
10.00 to <100.00	#	27.9	1	45	0.0	#	240
100.00 (Default)	-	-	-	-	-	-	-
Sub-total	**17,050**	**0.1**	**174**	**22**	**0.3**	**1,443**	**8**
Corporate							
0.00 to < 0.15	1,772	0.1	105	28	1.2	257	14
0.15 to <0.25	1,038	0.2	71	24	0.8	230	22
0.25 to <0.50	2,510	0.4	170	15	0.4	496	20
0.50 to <0.75	349	0.5	65	29	1.0	145	42
0.75 to < 2.50	1,710	1.1	283	16	0.4	530	31
2.50 to < 10.00	1,101	3.4	92	45	0.6	1,269	115
10.00 to <100.00	30	26.2	14	45	0.6	72	243
100.00 (Default)	10	100.0	1	45	3.9	-	-
Sub-total	**8,520**	**1.1**	**801**	**24**	**0.7**	**2,999**	**35**
Corporate small business							
0.00 to < 0.15	#	0.1	1	45	0.0	#	7
0.15 to <0.25	4	0.2	45	44	0.3	1	20
0.25 to <0.50	19	0.4	69	43	1.0	8	42
0.50 to <0.75	3	0.5	27	41	0.5	1	43
0.75 to < 2.50	20	1.4	237	40	0.5	13	64
2.50 to < 10.00	8	3.9	154	40	0.7	8	98
10.00 to <100.00	1	18.4	29	44	1.3	3	199
100.00 (Default)	#	100.0	1	40	0.4	-	-
Sub-total	**55**	**1.8**	**563**	**42**	**0.7**	**34**	**61**
Specialised lending - IPRE							
0.00 to < 0.15	-	-	-	-	-	-	-
0.15 to <0.25	5	0.2	17	45	2.0	2	41
0.25 to <0.50	79	0.4	73	45	1.4	42	54
0.50 to <0.75	1	0.5	7	45	1.7	1	65
0.75 to < 2.50	101	1.0	33	45	2.6	101	100
2.50 to < 10.00	#	9.3	1	45	1.0	#	181
10.00 to <100.00	#	13.1	1	45	2.2	#	222
100.00 (Default)	-	-	-	-	-	-	-
Sub-total	**186**	**0.8**	**132**	**45**	**2.0**	**146**	**79**
Total (sum of portfolios)	**33,416**	**0.3**	**1,679**	**19**	**0.5**	**4,657**	**14**

8.4 IRBA - CCR Exposures by Portfolio and PD Range *(cont'd)*

(B) Main parameters used for calculations of CCR capital requirements for AIRB models

As at 30 June 2023

	(a)	(b)	(c)	(d)	(e)	(f)	(g)
PD range %	EAD post-CRM $m	Average PD %	Number of obligors	Average LGD %	Average maturity Years	RWA $m	RWA density %
Other retail small business exposures							
0.00 to < 0.15	#	0.1	1	81		#	15
0.15 to <0.25	#	0.2	22	34		#	14
0.25 to <0.50	#	0.4	58	66		#	45
0.50 to <0.75	#	0.5	42	71		#	55
0.75 to < 2.50	1	1.2	150	68		1	78
2.50 to < 10.00	#	2.9	134	57		#	84
10.00 to <100.00	#	13.3	3	79		#	157
100.00 (Default)	#	100.0	1	81		-	-
Sub-total	**1**	**4.2**	**411**	**120**		**1**	**132**
Total (sum of portfolios)	**1**	**4.2**	**411**	**120**		**1**	**132**

As at 31 December 2022

	(a)	(b)	(c)	(d)	(e)	(f)	(g)
PD range %	EAD post-CRM $m	Average PD %	Number of obligors	Average LGD %	Average maturity Years	RWA $m	RWA density %
Other retail small business exposures							
0.00 to < 0.15	#	0.1	8	61		#	11
0.15 to <0.25	#	0.2	21	48		#	20
0.25 to <0.50	1	0.4	62	66		#	43
0.50 to <0.75	1	0.5	42	69		#	54
0.75 to < 2.50	3	1.4	167	76		3	131
2.50 to < 10.00	1	3.6	137	82		2	123
10.00 to <100.00	#	18.7	3	64		#	146
100.00 (Default)	-	-	-	-		-	-
Sub-total	**6**	**1.7**	**440**	**74**		**5**	**101**
Total (sum of portfolios)	**6**	**1.7**	**440**	**74**		**5**	**101**

8.5 Composition of Collateral for CCR Exposures

The following table provides the breakdown of all types of collateral posted or received by the Group to support or reduce the CCR exposures related to derivative transactions or to SFTs.

Compared to 31 December 2022, the movement in collateral posted for derivative transactions and SFTs were mainly in "Cash other currencies".

As at 30 June 2023

	(a)	(b)	(c)	(d)	(e)	(f)
	Collateral used in derivative transactions				Collateral used in SFTs	
	Fair value of collateral received		Fair value of posted collateral		Fair value of collateral received	Fair value of posted collateral
$m	Segregated	Unsegregated	Segregated	Unsegregated		
Cash domestic currencies	-	-	-	1	318	556
Cash other currencies	-	466	-	1,891	8,698	7,757
Domestic sovereign debt	-	40	-	136	524	875
Other sovereign debt	-	91	-	540	5,545	4,227
Government agency debt	-	-	-	-	79	-
Corporate bonds	-	28	-	28	2,125	4,883
Equity securities	-	-	-	-	-	-
Other collateral	-	-	-	-	271	-
Total	-	624	-	2,596	17,561	18,299

As at 31 December 2022

	(a)	(b)	(c)	(d)	(e)	(f)
	Collateral used in derivative transactions				Collateral used in SFTs	
	Fair value of collateral received		Fair value of posted collateral		Fair value of collateral received	Fair value of posted collateral
$m	Segregated	Unsegregated	Segregated	Unsegregated		
Cash domestic currencies	-	9	-	53	732	1,448
Cash other currencies	-	419	-	2,918	10,565	10,579
Domestic sovereign debt	-	36	-	170	1,375	1,718
Other sovereign debt	-	55	-	585	6,383	4,892
Government agency debt	-	-	-	-	95	-
Corporate bonds	-	54	-	10	4,081	5,850
Equity securities	-	-	-	-	-	-
Other collateral	-	-	-	-	228	-
Total	-	573	-	3,736	23,459	24,487

8.6 Credit Derivative Exposures

The following table shows the breakdown of Group's exposures to credit derivative transactions by protection bought or sold.

Compared with 31 December 2022, the decrease in credit protection bought was mainly from total return swaps.

As at 30 June 2023

	$m	(a) Protection bought	(b) Protection sold
	Notionals		
1	Single-name credit default swaps	123	69
2	Index credit default swaps	68	-
3	Total return swaps	349	11
4	**Total notionals**	**540**	**81**
	Fair values		
5	Positive fair value (asset)	57	1
6	Negative fair value (liability)	3	-

As at 31 December 2022

	$m	(a) Protection bought	(b) Protection sold
	Notionals		
1	Single-name credit default swaps	129	69
2	Index credit default swaps	67	-
3	Total return swaps	539	12
4	**Total notionals**	**735**	**80**
	Fair values		
5	Positive fair value (asset)	51	1
6	Negative fair value (liability)	2	-

8.7 RWA flow statements under CCR internal models method

UOB does not use CCR Internal Models Method.

8.8 Exposures to Central Counterparties

The table below provides an overview of the Group's exposures to CCPs, including all types of exposures due to operations, margins, contributions to default funds and related capital requirements.

Compared with 31 December 2022, there was a decrease in volume and RWA of CCP cleared trades.

8.8 Exposures to Central Counterparties *(cont'd)*

As at 30 June 2023

		(a)	(b)
		EAD (post-CRM)	RWA
1	**Total exposures to qualifying CCPs**		**678**
2	Exposures to qualifying CCPs (excluding collateral and default fund contributions)	16,024	602
3	arising from: OTC derivative transactions;	15,347	588
4	arising from: Exchange-traded derivative transactions;	677	14
5	arising from: SFTs; and	-	-
6	arising from: Netting sets where cross-product netting has been approved	-	-
7	Segregated collateral	-	
8	Non-segregated collateral	1,979	76
9	Pre-funded default fund contributions	7	#
10	Unfunded default fund contributions	-	-
11	**Exposures to non-QCCPs (total)**		-
12	Exposures to non-qualifying CCPs (excluding collateral and default fund contributions)	-	-
13	arising from: OTC derivative transactions;	-	-
14	arising from: Exchange-traded derivative transactions;	-	-
15	arising from: SFTs; and	-	-
16	arising from: Netting sets where cross-product netting has been approved	-	-
17	Segregated collateral	-	
18	Non-segregated collateral	-	-
19	Pre-funded default fund contributions	-	-
20	Unfunded default fund contributions	-	-

As at 31 December 2022

		(a)	(b)
		EAD (post-CRM)	RWA
1	**Total exposures to qualifying CCPs**		**705**
2	Exposures to qualifying CCPs (excluding collateral and default fund contributions)	17,009	631
3	arising from: OTC derivative transactions;	16,424	619
4	arising from: Exchange-traded derivative transactions;	585	12
5	arising from: SFTs; and	-	-
6	arising from: Netting sets where cross-product netting has been approved	-	-
7	Segregated collateral	-	
8	Non-segregated collateral	1,924	72
9	Pre-funded default fund contributions	13	2
10	Unfunded default fund contributions	-	-
11	**Exposures to non-QCCPs (total)**		-
12	Exposures to non-qualifying CCPs (excluding collateral and default fund contributions)	-	-
13	arising from: OTC derivative transactions;	-	-
14	arising from: Exchange-traded derivative transactions;	-	-
15	arising from: SFTs; and	-	-
16	arising from: Netting sets where cross-product netting has been approved	-	-
17	Segregated collateral	-	
18	Non-segregated collateral	-	-
19	Pre-funded default fund contributions	-	-
20	Unfunded default fund contributions	-	-

9 Securitisation

9.1 Securitisation Exposures in the Banking Book

The following table shows the Group's securitisation exposures in the Banking Book.

Compared with 31 December 2022, the increase in securitisation exposures mainly arose from residential mortgage-backed securities.

		As at 30 Jun 2023	As at 31 Dec 2022
		(a)	
		UOB acts as investor	
$m		Traditional	
1	**Total retail**	3,553	3,261
2	of which: residential mortgage	3,485	3,261
3	of which: other retail exposure	68	-
4	**Total wholesale**	63	63
5	of which: commercial mortgage	63	63

Note: The group does not have any securitisation exposures where it acts as sponsor or originator.

9.2 Securitisation Exposures in the Trading Book

The Group currently has no securitisation exposures in the Trading book.

9.3 Securitisation Exposures in the Banking Book and associated Regulatory Capital Requirements – UOB acting as Originator or as Sponsor

The Group currently has no securitisation exposures in the Banking Book where the Group acts as originator or sponsor.

9.4 Securitisation Exposures in the Banking Book and associated Regulatory Capital Requirements – UOB acting as Investor

The following table shows the exposure amounts, RWA and capital requirements of the Group's securitisation exposures in the Banking Book where the Group acts as an investor.

Compared with 31 December 2022, the increase in securitisation exposures mainly arose from residential mortgage-backed securities.

As at 30 June 2023

		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)
		Exposure values (by risk weight bands)					Exposure values (by regulatory approach)				RWA (by regulatory approach)				Capital charge after cap			
$m		≤20% RW	>20% to 50% RW	>50% to 100% RW	>100% to <1250% RW	1250% RW	SEC-IRBA	SEC-ERBA	SEC-SA	1250%	SEC-IRBA	SEC-ERBA	SEC-SA	1250%	SEC-IRBA	SEC-ERBA	SEC-SA	1250%
1	**Total exposures**	**3,485**	**68**	**63**	-	-	-	**2,803**	**812**	-	-	**302**	**151**	-	-	**30**	**15**	-
2	Traditional securitisation	3,485	68	63	-	-	-	2,803	812	-	-	302	151	-	-	30	15	-
3	of which: securitisation	3,485	68	63	-	-	-	2,803	812	-	-	302	151	-	-	30	15	-
4	of which: retail underlying	3,485	68	-	-	-	-	2,775	777	-	-	284	116	-	-	28	12	-
5	of which: wholesale	-	-	63	-	-	-	28	35	-	-	18	35	-	-	2	3	-
6	of which: resecuritisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	of which: senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	of which: non-senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	Synthetic securitisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	of which: securitisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	of which: retail underlying	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	of which: wholesale	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	of which resecuritisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	of which: senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	of which: non-senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

As at 31 December 2022

		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)
		Exposure values (by risk weight bands)					Exposure values (by regulatory approach)				RWA (by regulatory approach)				Capital charge after cap			
$m		≤20% RW	>20% to 50% RW	>50% to 100% RW	>100% to <1250% RW	1250% RW	SEC-IRBA	SEC-ERBA	SEC-SA	1250%	SEC-IRBA	SEC-ERBA	SEC-SA	1250%	SEC-IRBA	SEC-ERBA	SEC-SA	1250%
1	**Total exposures**	**3,261**	-	**63**	-	-	-	**2,756**	**568**	-	-	**297**	**96**	-	-	**30**	**10**	-
2	Traditional securitisation	3,261	-	63	-	-	-	2,756	568	-	-	297	96	-	-	30	10	-
3	of which: securitisation	3,261	-	63	-	-	-	2,756	568	-	-	297	96	-	-	30	10	-
4	of which: retail underlying	3,261	-	-	-	-	-	2,730	531	-	-	280	59	-	-	28	6	-
5	of which: wholesale	-	-	63	-	-	-	26	37	-	-	17	37	-	-	2	4	-
6	of which: resecuritisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	of which: senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	of which: non-senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	Synthetic securitisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	of which: securitisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	of which: retail underlying	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	of which: wholesale	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	of which resecuritisation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	of which: senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	of which: non-senior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

10 Market Risk

10.1 Market Risk under Standardised Approach

The table below shows the components of the capital requirement under the standardised approach for market risk.

Compared with 31 December 2022, the increase in RWA was mainly due to higher scenario approach, interest rate and foreign exchange risk, offset by decrease in commodity risk.

As at 30 June 2023

$m		(a) RWA
	Products excluding Options	
1	Interest Rate Risk (General and Specific)	3,251
2	Equity Risk (General and Specific)	30
3	Foreign Exchange Risk	4,144
4	Commodity Risk	351
	Options	
5	Simplified Approach	
6	Delta-Plus Method	
7	Scenario Approach	1,748
8	Securitisation	
9	**Total**	**9,524**

As at 31 December 2022

$m		(a) RWA
	Products excluding Options	
1	Interest Rate Risk (General and Specific)	2,604
2	Equity Risk (General and Specific)	16
3	Foreign Exchange Risk	3,154
4	Commodity Risk	898
	Options	
5	Simplified Approach	
6	Delta-Plus Method	
7	Scenario Approach	1,151
8	Securitisation	
9	**Total**	**7,824**

10.2 RWA Flow Statements of Market Risk Exposures under IMA and IMA Values for Trading Portfolios

These disclosures are not applicable as the Group has not adopted IMA for market risk regulatory capital requirements.

10.3 Comparison of VaR Estimates with Gains or Losses

The Group currently adopts the SA for the calculation of regulatory market risk capital.

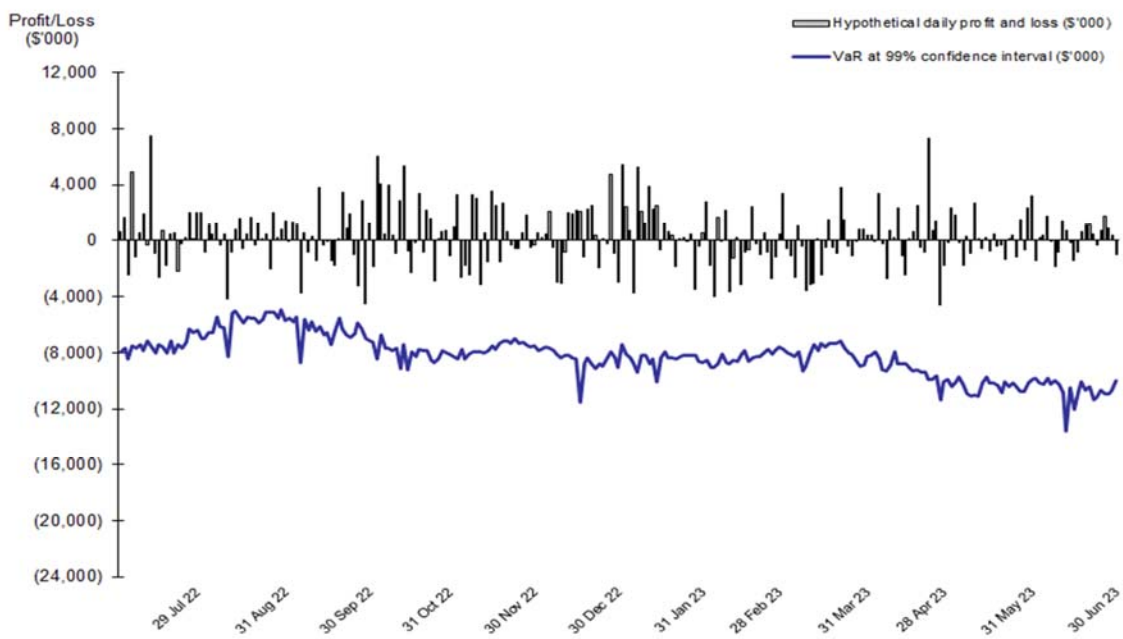
The Internal Models Approach is used to measure and to control trading market risks. The financial products which are warehoused, measured and controlled with internal models include:
- FX and FX options;
- plain vanilla interest rate contracts and interest rate options;
- government and corporate bonds;
- equities and equity options; and
- commodity contracts and commodity options.

The Group estimates a daily Expected Shortfall (ES) within a 97.5 per cent confidence interval over a one-day holding period, using the historical VaR simulation method, as a control for market risk. This method assumes observed historical market movements can be used to imply possible future changes in market rates. ES is the average of the worst losses in the distribution, assuming that the losses exceed the specified percentile.

To complement the ES measure, we perform stress and scenario tests to identify the Group's vulnerability to event risk. These tests serve to provide early warnings of plausible extreme losses.

The Group's daily ES on 30 June 2023 was $10.87 million.

Comparison of VaR estimates[5] with gains or losses
(Hypothetical daily profit and loss versus VaR at 99% confidence interval)



For backtesting purposes, the Group uses daily VaR within a 99 per cent confidence interval over a one-day holding period. VaR uses the same loss distribution as ES. The backtesting process analyses whether the exceptions are due to model deficiencies or market volatility. All backtesting exceptions are tabled to the ALCO with recommended actions and resolutions.

[5] VaR estimates includes jump-to-default risk component (refers to the risk that a financial instrument's mark-to-market value depends on the credit quality of its reference underlying, may experience sudden price changes due to an unexpected default of one reference underlying).

11 Liquidity Coverage Ratio Disclosures

11.1 Liquidity Coverage Ratio

The Liquidity Coverage Ratio ("LCR") ensures that a Bank has sufficient unencumbered high quality liquid assets ("HQLA") to survive a significant stress scenario for the next 30 days. The Group's LCR disclosure is as per MAS Notice 651 "Liquidity Coverage Ratio Disclosure".

Quarterly average All Currency LCR and Singapore Dollar LCR of 167% and 391% respectively were comfortably above the regulatory requirements of 100%. Compared to 1Q2023, increase in All Currency LCR was mainly due to higher HQLA. Increase in SGD Currency LCR was mainly due to increase in HQLA and increase in other cash inflows. The main drivers of LCR are the net cumulative outflow driven mainly by deposit profile and the portfolio of high-quality liquid asset which would cause some volatility on a day-to-day basis.

The Group's HQLA composition comprised largely Level 1 HQLA which include balances with central bank and sovereign bonds etc and the remaining in Level 2A and 2B HQLA. Deposit strategies are regularly discussed in Group ALCO with monitoring of deposit concentration and currency mismatch etc. The Group's exposures to derivatives and potential collateral calls were incorporated into the LCR outflows.

Daily liquidity management is centrally managed under Global Markets-Portfolio & Liquidity Management with regular discussion with Central Treasury and relevant Business Units. Liquidity limits and triggers were established to limit the Group's liquidity exposure. Balance Sheet Risk Management oversees the liquidity risk management in the Group. Contingency funding plans are in place to identify potential liquidity crisis using a series of early warning indicators as well as crisis escalation process and related funding strategies.

Please refer to:
- UOB Annual Report 2022, Risk Management section – Liquidity Risk for governance of liquidity risk management, funding strategy and liquidity risk mitigation techniques.
- UOB Annual Report 2022, Note 45 Financial Risk Management section for Balance sheet and off-balance sheet items broken down into maturity buckets and resultant liquidity gaps.

11.2 Average Group All Currency LCR

For the quarter ended 30 June 2023

91 calendar days' data points were used in calculating the average figures.

$m		Total Unweighted Value Average	Total Weighted Value Average
HIGH-QUALITY LIQUID ASSETS			
1	Total high-quality liquid assests (HQLA)		106,110
CASH OUTFLOWS			
2	Retail deposits and deposits from small business customers, of which:	167,660	14,342
3	Stable deposits	44,160	2,208
4	Less stable deposits	123,500	12,134
5	Unsecured wholesale funding, of which:	139,999	67,588
6	Operational deposits (all counterparties) and deposits in networks of cooperative banks	38,023	9,233
7	Non-operational deposits (all counterparties)	97,337	53,716
8	Unsecured debt	4,639	4,639
9	Secured wholesale funding		652
10	Additional requirements, of which:	49,623	15,819
11	Outflows related to derivative exposures and other collateral requirements	10,361	9,966
12	Outflows related to loss of funding on debt products	7	7
13	Credit and liquidity facilities	39,256	5,845
14	Other contractual funding obligations	4,191	4,191
15	Other contingent funding obligations	12,587	807
16	TOTAL CASH OUTFLOWS		103,397
CASH INFLOWS			
17	Secured lending (eg reverse repos)	5,471	1,872
18	Inflows from fully performing exposures	44,821	27,607
19	Other cash inflows	10,739	10,257
20	TOTAL CASH INFLOWS	61,030	39,737

			Total Adjusted Value
21	TOTAL HQLA		106,110
22	TOTAL NET CASH OUTFLOWS		63,661
23	LIQUIDITY COVERAGE RATIO (%)		167

11.3 Average Group SGD Currency LCR

For the quarter ended 30 June 2023

91 calendar days' data points were used in calculating the average figures.

$m		Total Unweighted Value Average	Total Weighted Value Average
HIGH-QUALITY LIQUID ASSETS			
1	Total high-quality liquid assests (HQLA)		63,513
CASH OUTFLOWS			
2	Retail deposits and deposits from small business customers, of which:	123,213	10,259
3	Stable deposits	41,242	2,062
4	Less stable deposits	81,971	8,197
5	Unsecured wholesale funding, of which:	38,754	15,035
6	Operational deposits (all counterparties) and deposits in networks of cooperative banks	15,347	3,675
7	Non-operational deposits (all counterparties)	23,348	11,302
8	Unsecured debt	59	59
9	Secured wholesale funding		-
10	Additional requirements, of which:	22,528	10,156
11	Outflows related to derivative exposures and other collateral requirements	9,109	8,730
12	Outflows related to loss of funding on debt products	-	-
13	Credit and liquidity facilities	13,419	1,426
14	Other contractual funding obligations	1,507	1,507
15	Other contingent funding obligations	117	92
16	TOTAL CASH OUTFLOWS		37,049
CASH INFLOWS			
17	Secured lending (eg reverse repos)	310	8
18	Inflows from fully performing exposures	11,671	6,301
19	Other cash inflows	14,544	14,325
20	TOTAL CASH INFLOWS	26,524	20,634
			Total Adjusted Value
21	TOTAL HQLA		63,513
22	TOTAL NET CASH OUTFLOWS		16,416
23	LIQUIDITY COVERAGE RATIO (%)		391

12 Net Stable Funding Ratio Disclosures

The Net Stable Funding Ratio ("NSFR") measures the amount of available stable funding relative to the amount of required stable funding in a bank and promotes resilience over a longer time horizon. The bank is required to maintain a stable funding profile in relation to the composition of their assets and off-balance sheet activities.

The Group is subjected to NSFR standards effective January 2018. NSFR disclosure is as per MAS Notice 653 "Net Stable Funding Ratio Disclosure". NSFR for 31 March 2023 and 30 June 2023 were flat at 121%, above the regulatory requirement of 100%. Increase in NSFR in the 1st quarter was largely due to increase in capital, retail deposits and decrease in loans. NSFR in the 2nd quarter remained relatively unchanged. The main drivers of NSFR are the composition and profile of deposits and capital in relation to loans. Interdependent asset and liabilities reported include government funded loans in accordance with criteria stated in MAS Notice 652.

12 Net Stable Funding Ratio Disclosures *(cont'd)*

As at 30 June 2023

$m		Unweighted value by residual maturity				Weighted value
		No maturity	< 6 months	6 months to < 1 yr	≥ 1 yr	
ASF Item						
1	Capital:	43,013	1,002	1,533	7,128	51,789
2	*Regulatory capital*	43,013	1,002	1,533	5,756	50,417
3	*Other capital instruments*	-	-	-	1,372	1,372
4	Retail deposits and deposits from small business customers:	95,188	88,183	8,771	827	176,259
5	*Stable deposits*	29,328	20,579	139	144	47,688
6	*Less stable deposits*	65,860	67,605	8,632	682	128,571
7	Wholesale funding:	90,958	115,730	7,878	15,810	90,623
8	*Operational deposits*	32,877	-	-	-	16,439
9	*Other wholesale funding*	58,081	115,730	7,878	15,810	74,185
10	Liabilities with matching interdependent assets	-	185	181	644	-
11	Other liabilities:	9,254		14,836		1,461
12	*NSFR derivative liabilities*			11,934		
13	*All other liabilities and equity not included in the above categories*	9,254	1,506	496	900	1,461
14	**Total ASF**					320,131
RSF Item						
15	Total NSFR high-quality liquid assets (HQLA)					5,264
16	Deposits held at other financial institutions for operational purposes	-	-	-	-	-
17	Performing loans and securities:	16,742	157,074	29,263	194,862	235,398
18	*Performing loans to financial institutions secured by Level 1 HQLA*	-	2,269	253	175	528
19	*Performing loans to financial institutions secured by non-Level 1 HQLAand unsecured performing loans to financial institutions*	3,531	19,662	2,284	5,245	10,081
20	*Performing loans to non-financial corporates, loans to retail and small business customers, and loans to sovereigns, central banks and public sector entities (PSEs), of which:*	11,809	126,499	18,059	103,229	150,248
21	*With a risk weight of less than or equal to 35% under paragraphs 7.3.13 to 7.3.20 and 7.3.24 to7.3.26 of MAS Notice 637*	-	245	139	4,462	3,103
22	*Performing residential mortgages, of which:*	-	1,416	1,369	71,015	53,168
23	*With a risk weight of less than or equal to 35% under paragraph 7.3.29 of MAS Notice 637*	-	1,287	1,247	58,783	42,642
24	*Securities that are not in default and do not qualify as HQLA, including exchange-traded equities*	1,402	7,228	7,298	15,198	21,374
25	Assets with matching interdependent liabilities	-	185	181	644	-
26	Other assets:	22,192		26,055		22,779
27	*Physical traded commodities, including gold*	5,281				4,489
28	*Assets posted as initial margin for derivative contracts and contributions to default funds of CCPs*			88		75
29	*NSFR derivative assets*			12,568		634
30	*NSFR derivative liabilities before deduction of variation margin posted*			13,399		670
31	*All other assets not included in the above categories*	16,911	-	-	-	16,911
32	Off-balance sheet items			222,186		1,944
33	**Total RSF**					265,384
34	**Net Stable Funding Ratio (%)**					121

12 Net Stable Funding Ratio Disclosures *(cont'd)*

As at 31 March 2023

	$m	Unweighted value by residual maturity				Weighted value
		No maturity	< 6 months	6 months to < 1 yr	≥ 1 yr	
ASF Item						
1	Capital:	43,246	117	1,604	7,929	52,409
2	*Regulatory capital*	43,246	117	1,604	6,522	51,002
3	*Other capital instruments*	-	-	-	1,407	1,407
4	Retail deposits and deposits from small business customers:	92,760	82,653	10,461	915	170,616
5	*Stable deposits*	27,902	20,234	136	162	46,020
6	*Less stable deposits*	64,857	62,420	10,326	753	124,596
7	Wholesale funding:	92,948	116,048	8,789	17,865	95,479
8	*Operational deposits*	40,485	-	-	-	20,243
9	*Other wholesale funding*	52,463	116,048	8,789	17,865	75,237
10	Liabilities with matching interdependent assets	-	182	182	711	-
11	Other liabilities:	9,211	12,508			1,237
12	*NSFR derivative liabilities*		10,343			
13	*All other liabilities and equity not included in the above categories*	9,211	534	1,265	367	1,237
14	**Total ASF**					319,742
RSF Item						
15	Total NSFR high-quality liquid assets (HQLA)					5,322
16	Deposits held at other financial institutions for operational purposes	-	-	-	-	-
17	Performing loans and securities:	16,663	160,672	31,606	193,376	234,007
18	*Performing loans to financial institutions secured by Level 1 HQLA*	-	3,974	99	-	447
19	*Performing loans to financial institutions secured by non-Level 1 HQLAand unsecured performing loans to financial institutions*	3,381	22,448	3,734	5,093	11,033
20	*Performing loans to non-financial corporates, loans to retail and small business customers, and loans to sovereigns, central banks and public sector entities (PSEs), of which:*	11,768	123,894	21,218	102,887	148,639
21	*With a risk weight of less than or equal to 35% under paragraphs 7.3.13 to 7.3.20 and 7.3.24 to7.3.26 of MAS Notice 637*	-	248	147	4,517	3,144
22	*Performing residential mortgages, of which:*	-	1,451	1,420	71,543	53,551
23	*With a risk weight of less than or equal to 35% under paragraph 7.3.29 of MAS Notice 637*	-	1,316	1,288	58,971	42,727
24	*Securities that are not in default and do not qualify as HQLA, including exchange-traded equities*	1,514	8,905	5,136	13,854	20,338
25	Assets with matching interdependent liabilities	-	182	182	711	-
26	Other assets:	21,955	23,090			22,289
27	*Physical traded commodities, including gold*	5,379				4,572
28	*Assets posted as initial margin for derivative contracts and contributions to default funds of CCPs*		67			57
29	*NSFR derivative assets*		10,816			473
30	*NSFR derivative liabilities before deduction of variation margin posted*		12,207			610
31	*All other assets not included in the above categories*	16,576	-	-	-	16,576
32	Off-balance sheet items		221,733			2,061
33	**Total RSF**					263,679
34	**Net Stable Funding Ratio (%)**					121

13 Abbreviations

The following abbreviated terms are used throughout this document.

A	
A-IRBA	Advanced Internal Ratings-Based Approach
ALCO	Asset and Liability Committee
AMA	Advanced Measurement Approach
AT1	Additional Tier 1
ASF	Available Stable Funding
B	
BIA	Basic Indicator Approach
C	
CAR	Capital Adequacy Ratio
CCF	Credit Conversion Factor
CCP	Central Counterparty
CCR	Counterparty Credit Risk
CCyB	Countercyclical Capital Buffer
CET1	Common Equity Tier 1
CF	Commodities Finance
CR	Credit Risk
CRE	Commercial Real Estate
CRM	Credit Risk Mitigation
CVA	Credit Valuation Adjustment
D	
D-SIB	Domestic Systemically Important Bank

E	
EAD	Exposure at Default
EL	Expected Loss
EPE	Expected Positive Exposure
EQ	Equity Exposures
ES	Expected Shortfall
F	
FC(SA)	Financial Collateral Simple Approach
FC(CA)	Financial Collateral Comprehensive Approach
F-IRBA	Foundation Internal Ratings-Based Approach
G	
G-SIB	Global Systemically Important Bank
H	
HVCRE	High-Volatility Commercial Real Estate
I	
IAA	Internal Assessment Approach
IAM	Internal Assessment Method
IMA	Internal Models Approach
IMM	Internal Models Method
IPRE	Income-Producing Real Estate
IRBA	Internal Ratings-Based Approach

13 Abbreviations *(cont'd)*

L	
LGD	Loss Given Default
M	
MDB	Multilateral Development Bank
MR	Market Risk
N	
NBFI	Non Bank Financial Institutions
NCI	Non-Controlling Interests
O	
OF	Object Finance
P	
PD	Probability of Default
PE/VC	Private Equity/Venture Capital
PF	Project Finance
PSE	Public Sector Entity
Q	
QRRE	Qualifying Revolving Retail Exposures
R	
RBM	Ratings-Based Method
RSF	Required Stable Funding
RW	Risk Weight
RWA	Risk-Weighted Assets

S	
S&P	Standard & Poor's
SA	Standardised Approach
SA(CCR)	Standardised Approach for Counterparty Credit Risk
SA(CR)	Standardised Approach to Credit Risk
SA(EQ)	Standardised Approach for Equity Exposures
SA(MR)	Standardised Approach to Market Risk
SA(OR)	Standardised Approach to Operational Risk
SEC-IRBA	Securitisation Internal Ratings-Based Approach
SEC-ERBA	Securitisation External Ratings-Based Approach
SEC-SA	Securitisation Standardised Approach
SF	Supervisory Formula
SFRS	Singapore Financial Reporting Standards
SFTs	Securities Financing Transactions
SME	Small-and Medium-sized Enterprises
T	
T1	Tier 1
T2	Tier 2
TEP	Total Eligible Provisions
TLAC	Total Loss-Absorbing Capacity
V	
VaR	Value-at-Risk