

# Pillar 3 Disclosure Report

31 December 2022

Contents

<b>1</b>	<b>Introduction</b> .....	<b>4</b>
<b>2</b>	<b>Attestation</b> .....	<b>5</b>
<b>3</b>	<b>Risk Management Approach</b> .....	<b>6</b>
<b>4</b>	<b>Key Metrics</b> .....	<b>6</b>
<b>5</b>	<b>Composition of Capital</b> .....	<b>7</b>
5.1	Reconciliation of Regulatory Capital to Balance Sheet .....	7
5.2	Main Features of Regulatory Instruments .....	12
<b>6</b>	<b>Leverage Ratio</b> .....	<b>19</b>
6.1	Leverage Ratio Summary Comparison Table .....	19
6.2	Leverage Ratio Common Disclosure Template .....	20
<b>7</b>	<b>Macroprudential Supervisory Measures</b> .....	<b>21</b>
7.1	Geographical Distribution of Credit Exposures Used in the Countercyclical Capital Buffer .....	21
7.2	Disclosure of G-SIB Indicators .....	22
<b>8</b>	<b>Overview of RWA</b> .....	<b>23</b>
<b>9</b>	<b>Linkages between Financial Statements and Regulatory Exposures</b> .....	<b>24</b>
9.1	Differences between Accounting and Regulatory Scopes of Consolidation and Mapping of Financial Statements Categories with Regulatory Risk Categories .....	24
9.2	Main Sources of Differences between Regulatory Exposure Amounts and Carrying Amounts in Financial Statements .....	25
9.3	Qualitative Disclosure of Differences between Carrying Amounts in Financial Statements and Regulatory Exposure Amounts .....	25
9.4	Prudent Valuation Adjustments .....	26
<b>10</b>	<b>Credit Risk</b> .....	<b>28</b>
10.1	General Qualitative Disclosures on Credit Risk .....	28
10.2	Credit Quality of Assets .....	28
10.3	Changes in Stock of Defaulted Loans and Debt Securities .....	29
10.4	Additional Disclosures Related to the Credit Quality of Assets .....	29
10.5	Qualitative disclosure related to Credit Risk Mitigation techniques .....	37
10.6	Overview of CRM Techniques .....	37
10.7	Qualitative disclosure on the use of external credit ratings under the Standardised Approach Credit Risk .....	37
10.8	SA(CR) and SA(EQ) – Credit Risk Exposure and CRM Effects .....	38
10.9	SA(CR) and SA(EQ) – Exposures by Asset Classes and Risk Weights .....	39
10.10	Qualitative disclosure for Internal Ratings-Based Approach models .....	39
10.11	IRBA – Credit Risk Exposures by Portfolio and PD Range .....	40
10.12	IRBA – Effect on RWA of Credit Derivatives used as CRM .....	44
10.13	IRBA – RWA Flow Statement for Credit Risk Exposures .....	44
10.14	IRBA – Backtesting of PD per portfolio .....	45

---

10.15 IRBA - Specialised Lending .....	49
<b>11 Counterparty Credit Risk (CCR).....</b>	<b>50</b>
11.1 Qualitative disclosures related to CCR.....	50
11.2 Analysis of CCR Exposure by Approach .....	50
11.3 CVA Risk Capital Requirements .....	51
11.4 Standardised Approach - CCR Exposures by Portfolio and Risk Weights.....	52
11.5 IRBA - CCR Exposures by Portfolio and PD Range .....	52
11.6 Composition of Collateral for CCR Exposures .....	56
11.7 Credit Derivative Exposures.....	57
11.8 RWA flow statements under CCR internal models method.....	57
11.9 Exposures to Central Counterparties.....	57
<b>12 Securitisation.....</b>	<b>59</b>
12.1 Qualitative disclosures related to securitisation exposures.....	59
12.2 Securitisation Exposures in the Banking Book .....	59
12.3 Securitisation Exposures in the Trading Book.....	59
12.4 Securitisation Exposures in the Banking Book and associated Regulatory Capital Requirements - UOB acting as Originator or as Sponsor .....	59
12.5 Securitisation Exposures in the Banking Book and associated Regulatory Capital Requirements - UOB acting as Investor.....	60
<b>13 Market Risk.....</b>	<b>61</b>
13.1 Qualitative Disclosures related to Market Risk and Internal Model Approach (IMA) .....	61
13.2 Market Risk under Standardised Approach .....	61
13.3 RWA Flow Statements of Market Risk Exposures under IMA and IMA Values for Trading Portfolios.....	62
13.4 Comparison of VaR Estimates with Gains or Losses .....	62
<b>14 Operational Risk.....</b>	<b>62</b>
<b>15 Interest Rate Risk in the Banking Book.....</b>	<b>62</b>
<b>16 Liquidity Coverage Ratio Disclosures .....</b>	<b>63</b>
16.1 Liquidity Coverage Ratio .....	63
16.2 Average Group All Currency LCR .....	64
16.3 Average Group SGD Currency LCR .....	65
<b>17 Net Stable Funding Ratio Disclosures.....</b>	<b>66</b>
<b>18 Remuneration.....</b>	<b>69</b>
<b>19 Abbreviations.....</b>	<b>70</b>

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 Attestation**

In accordance with the Monetary Authority of Singapore Notice 637 - Notice on Risk Based Capital Adequacy requirements for Banks incorporated in Singapore and on behalf of the Board of Directors and Senior Management of UOB Group, I hereby attest that UOB Group's Pillar 3 Disclosures Report for the financial year ended 31 December 2022 has been prepared in accordance with the internal control processes approved by the Board.



**Wee Ee Cheong**

Deputy Chairman and Chief Executive Officer

Date: 23 February 2023

### 3 Risk Management Approach

Please refer to UOB Annual Report 2022, Risk Management section - Maintaining a Sound Risk Culture.

### 4 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 31 December 2022

\$m	31 Dec 2022	30 Sep 2022	30 Jun 2022	31 Mar 2022	31 Dec 2021	
<b>Available capital (amounts)<sup>1</sup></b>						
1	CET1 capital	34,405	33,988	34,460	35,080	34,935
2	Tier 1 capital	37,185	36,768	36,840	37,460	37,314
3	Total capital	43,364	43,129	42,964	42,232	43,075
<b>Risk weighted assets (amounts)<sup>1</sup></b>						
4	Total RWA	259,098	265,961	262,695	267,550	259,067
<b>Risk-based capital ratios as a percentage of RWA</b>						
5	CET1 ratio (%)	13.3	12.8	13.1	13.1	13.5
6	Tier 1 ratio (%)	14.4	13.8	14.0	14.0	14.4
7	Total capital ratio (%)	16.7	16.2	16.4	15.8	16.6
<b>Additional CET1 buffer requirements as a percentage of RWA</b>						
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 (%)	6.4	5.8	6.0	5.8	6.4
<b>Leverage Ratio<sup>1</sup></b>						
13	Total Leverage Ratio exposure measure	563,583	573,637	558,189	539,273	517,243
14	Leverage Ratio (%) (row 2/ row 13)	6.6	6.4	6.6	6.9	7.2
<b>Liquidity Coverage Ratio</b>						
15	Total High Quality Liquid Assets	94,681	91,324	88,024	78,967	79,629
16	Total net cash outflow	64,713	64,549	62,688	61,097	59,911
17	Liquidity Coverage Ratio (%)	147	142	141	129	133
<b>Net Stable Funding Ratio</b>						
18	Total available stable funding	310,095	304,477	293,662	294,532	288,115
19	Total required stable funding	266,941	267,959	265,477	261,223	247,977
20	Net Stable Funding Ratio (%)	116	114	111	113	116

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

## 5 Composition of Capital

### 5.1 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 31 December 2022, both the total assets and the total equities of each of these subsidiaries were less than \$1 billion.

Compared with 30 June 2022, key movements in the items under the column "Under regulatory scope of consolidation" were mainly from retained earnings, lower other reserves, capital issuances, goodwill and intangibles.

Table 1 - Reconciliation of Balance Sheet to Regulatory Capital as at 31 December 2022

\$m	Balance Sheet per Published Financial Statements	Under regulatory scope of consolidation <sup>2</sup>	Reference in Table 2
<b>Equity</b>			
Share capital and other capital	7,855		
<i>of which paid-up ordinary shares</i>		5,077	A
<i>of which AT1 capital instruments</i>		2,777	B
Retained earnings	28,925	28,760	C
<i>of which unrealised fair value gains/losses on financial liabilities and derivative liabilities arising from changes in own credit risk</i>		38	D1
Other reserves	6,586	6,175	E
<i>of which unrealised fair value gains/losses on financial liabilities and derivative liabilities arising from changes in own credit risk</i>		(2)	D2
<b>Equity attributable to equity holders of the Bank</b>	<b>43,366</b>		
Non-controlling interests	240		
<i>of which NCI that meets criteria for inclusion in</i>			
- CET1 capital		16	F1
- AT1 capital		3	F2
- T2 capital		4	F3
<b>Total equity</b>	<b>43,606</b>		
<b>Liabilities</b>			
Deposits and balances of banks	24,537		
Deposits and balances of customers	368,553		
Bills and drafts payable	788		
Derivative financial liabilities	16,218		
Other liabilities	8,803		
Tax payable	802		
Deferred tax liabilities	360		
Debts issued	40,593		
<i>of which T2 capital instruments</i>		4,621	G
<b>Total liabilities</b>	<b>460,654</b>		

## 5.1 Reconciliation of Regulatory Capital to Balance Sheet (cont'd)

Table 1 - Reconciliation of Balance Sheet to Regulatory Capital as at 31 December 2022

\$m	Balance Sheet per Published Financial Statements	Under regulatory scope of consolidation <sup>2</sup>	Reference in Table 2
<b>Assets</b>			
Cash, balances and placements with central banks	49,419		
Singapore Government treasury bills and securities	12,056		
Other government treasury bills and securities	19,822		
Trading securities	4,606		
Placements and balances with banks	35,410		
Loans to customers	315,355		
<i>of which provisions eligible for inclusion in T2 capital</i>		1,554	H
Derivative financial assets	13,802		
Investment securities <sup>3</sup>	35,183		
<i>of which investments in PE/VC held beyond the relevant holding period</i>		21	I1
Other assets	7,690		
<i>of which investments in PE/VC held beyond the relevant holding period</i>		-	I2
Deferred tax assets	560		
<i>of which amount related to deferred tax assets (net of deferred tax liabilities, where permissible)</i>		614	J
Investment in associates and joint ventures	1,258		
<i>of which amount related to goodwill</i>		10	K1
<i>of which investments in PE/VC held beyond the relevant holding period</i>		21	I3
Investment properties	746		
Fixed assets	3,453		
Intangible assets	4,900		
<i>of which amount related to goodwill</i>		4,703	K2
<i>of which amount related to other intangibles</i>		197	K3
<b>Total Assets</b>	<b>504,260</b>		

<sup>2</sup> The full balance sheet per regulatory scope of consolidation is available in section 9.1.

<sup>3</sup> This includes the Bank's major stake investments in financial institutions.



## 5.1 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 31 December 2022

\$m		Amount	Reference in Table 1
<b>Common Equity Tier 1 capital: instruments and reserves</b>			
1	Paid-up ordinary shares and share premium (if applicable)	5,077	A
2	Retained earnings	28,760	C
3*	Accumulated other comprehensive income and other disclosed reserves	6,175	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	<b>Common Equity Tier 1 capital before regulatory adjustments</b>	40,028	
<b>Common Equity Tier 1 capital: regulatory adjustments</b>			
7	Valuation adjustment pursuant to Part VIII of MAS Notice 637 <sup>4</sup>	-	
8	Goodwill, net of associated deferred tax liability	4,713	K1+K2
9*	Intangible assets, net of associated deferred tax liability	197	K3
10*	Deferred tax assets that rely on future profitability	614	J
11	Cash flow hedge reserve	(1)	
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	36	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	64	
26A	PE/VC investments held beyond the relevant holding periods set out in MAS Notice 630	64	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	<b>Total regulatory adjustments to CET1 Capital</b>	5,623	
29	<b>Common Equity Tier 1 capital (CET1)</b>	<b>34,405</b>	
<b>Additional Tier 1 capital: instruments</b>			

<sup>4</sup>All prudent valuation adjustments have been made for financial reporting purpose.

## 5.1 Reconciliation of Regulatory Capital to Balance Sheet (cont'd)

Table 2 - Capital Components as at 31 December 2022

\$m		Amount	Reference in Table 1
30	AT1 capital instruments and share premium (if applicable)	2,777	B
31	of which: classified as equity under the Accounting Standards	2,777	
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	<b>Additional Tier 1 capital before regulatory adjustments</b>	<b>2,780</b>	
<b>Additional Tier 1 capital: regulatory adjustments</b>			
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	<b>Total regulatory adjustments to Additional Tier 1 capital</b>	<b>#</b>	
44	<b>Additional Tier 1 capital (AT1)</b>	<b>2,780</b>	
45	<b>Tier 1 capital (T1 = CET1 + AT1)</b>	<b>37,185</b>	
<b>Tier 2 capital: instruments and provisions</b>			
46	Tier 2 capital instruments and share premium (if applicable)	4,621	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	4	F3
49	of which: instruments issued by subsidiaries subject to phase out	-	
50	Provisions	1,554	H
51	<b>Tier 2 capital before regulatory adjustments</b>	<b>6,179</b>	
<b>Tier 2 capital: regulatory adjustments</b>			
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	<b>Total regulatory adjustments to Tier 2 capital</b>	<b>-</b>	
58	<b>Tier 2 capital (T2)</b>	<b>6,179</b>	
59	<b>Total capital (TC = T1 + T2)</b>	<b>43,364</b>	
60	<b>Floor-adjusted total risk weighted assets</b>	<b>259,098</b>	
<b>Capital ratios (as a percentage of floor-adjusted risk weighted assets)</b>			
61	<b>Common Equity Tier 1 CAR</b>	<b>13.3%</b>	
62	<b>Tier 1 CAR</b>	<b>14.4%</b>	
63	<b>Total CAR</b>	<b>16.7%</b>	

## 5.1 Reconciliation of Regulatory Capital to Balance Sheet (cont'd)

Table 2 - Capital Components as at 31 December 2022

\$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	6.4%	
<b>National minima</b>			
69	Minimum CET1 CAR	6.5%	
70	Minimum Tier 1 CAR	8.0%	
71	Minimum Total CAR	10.0%	
<b>Amounts below the thresholds for deduction (before risk weighting)</b>			
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	678	
73	Investments in ordinary shares of unconsolidated financial institutions in which the Reporting Bank holds a major stake (including insurance subsidiaries)	1,616	
74	Mortgage servicing rights (net of associated deferred tax liability)	-	
75	Deferred tax assets arising from temporary differences (net of associated deferred tax liability)	-	
<b>Applicable caps on the inclusion of provisions in Tier 2</b>			
76	Provisions eligible for inclusion in Tier 2 in respect of exposures subject to standardised approach (prior to application of cap)	586	
77	Cap on inclusion of provisions in Tier 2 under standardised approach	513	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)	1,041	row 50
79	Cap for inclusion of provisions in Tier 2 under internal ratings-based approach	1,047	
<b>Capital instruments subject to phase-out arrangements (only applicable between 1 Jan 2013 and 1 Jan 2022)</b>			
80	<i>Current cap on CET1 instruments subject to phase out arrangements</i>	-	
81	<i>Amount excluded from CET1 due to cap (excess over cap after redemptions and maturities)</i>	-	
82	<i>Current cap on AT1 instruments subject to phase out arrangements</i>	-	
83	<i>Amount excluded from AT1 due to cap (excess over cap after redemptions and maturities)</i>	-	
84	<i>Current cap on T2 instruments subject to phase out arrangements</i>	-	
85	<i>Amount excluded from T2 due to cap (excess over cap after redemptions and maturities)</i>	-	

<sup>4</sup> 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.

## 5.2 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.

### Key Features of Regulatory Capital Instruments as at 31 December 2022

1 Issuer	United Overseas Bank Limited	United Overseas Bank Limited
2 Unique Identifier (ISIN code)	SG1M31001969	SGXF56824851
3 Governing law(s) of the instrument	Singapore	Singapore
<b>Regulatory treatment</b>		
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 ( <i>in millions</i> )	S\$5,077 million	S\$400 million
9 Principal amount ( <i>in millions</i> )	n.a.	S\$400 million
10 Accounting classification	Equity	Equity
11 Original date of issuance	20 July 1970	4 July 2022
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.	4 October 2027
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
<b>Coupons / dividends</b>		
17 Fixed or floating <sup>(1)</sup>	Discretionary dividend amount	Fixed
18 Coupon rate and any related index	n.a.	4.25% paid semi-annually on 4 January and 4 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.	Point of non-viability at the discretion of the Regulator
32 If write-down, full or partial	n.a.	Partial
33 If write-down, permanent or temporary	n.a.	Permanent
34 If temporary write-down, description of write-up	n.a.	n.a.
35 Position in subordination hierarchy in liquidation ( <i>instrument type immediately senior to instrument</i> )	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.

5.2 Main Features of Regulatory Instruments (cont'd)

**Key Features of Regulatory Capital Instruments as at 31 December 2022**

1 Issuer	United Overseas Bank Limited	United Overseas Bank Limited
2 Unique Identifier (ISIN code)	SGXF73188736	SGXF91929004
3 Governing law(s) of the instrument	Singapore	Singapore
<b>Regulatory treatment</b>		
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 ( <i>in millions</i> )	S\$599 million	S\$150 million
9 Principal amount ( <i>in millions</i> )	S\$600 million	S\$150 million
10 Accounting classification	Equity	Equity
11 Original date of issuance	22 June 2021	15 January 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	22 June 2028	15 January 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
<b>Coupons / dividends</b>		
17 Fixed or floating <sup>(1)</sup>	Fixed	Fixed
18 Coupon rate and any related index	2.55% paid semi-annually on 22 June and 22 December	2.25% paid semi-annually on 15 January and 15 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)	Point of non-viability at the discretion of the Regulator	Point of non-viability at the discretion of the Regulator
32 If write-down, full or partial	Partial	Partial
33 If write-down, permanent or temporary	Permanent	Permanent
34 If temporary write-down, description of write-up	n.a.	n.a.
35 Position in subordination hierarchy in liquidation ( <i>instrument type immediately senior to instrument</i> )	Tier 2 instruments	Tier 2 instruments
36 Non compliant transitioned features	No	No
37 If yes, specify non compliant features	n.a.	n.a.

5.2 Main Features of Regulatory Instruments (cont'd)

**Key Features of Regulatory Capital Instruments as at 31 December 2022**

1 Issuer	United Overseas Bank Limited	United Overseas Bank Limited
2 Unique Identifier (ISIN code)	SGXF48097749	XS1699845068
3 Governing law(s) of the instrument	Singapore	Singapore
<b>Regulatory treatment</b>		
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\$749 million	S\$879 million
9 Principal amount (in millions)	S\$750 million	US\$650 million
10 Accounting classification	Equity	Equity
11 Original date of issuance	17 July 2019	19 October 2017
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	17 July 2026	19 October 2023
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
<b>Coupons / dividends</b>		
17 Fixed or floating <sup>(1)</sup>	Fixed	Fixed
18 Coupon rate and any related index	3.58% paid semi-annually on 17 January and 17 July	3.875% paid semi-annually on 19 April and 19 October
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)	Point of non-viability at the discretion of the Regulator	Point of non-viability at the discretion of the Regulator
32 If write-down, full or partial	Partial	Partial
33 If write-down, permanent or temporary	Permanent	Permanent
34 If temporary write-down, description of write-up	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.

5.2 Main Features of Regulatory Instruments (cont'd)

**Key Features of Regulatory Capital Instruments as at 31 December 2022**

1 Issuer	United Overseas Bank Limited	United Overseas Bank Limited
2 Unique Identifier (ISIN code)	US91127LAH33 / US91127KAH59	XS2463967369
3 Governing law(s) of the instrument	Singapore	Singapore
<b>Regulatory treatment</b>		
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\$1,249 million	S\$125 million
9 Principal amount (in millions)	US\$1,000 million	CNH 650 million
10 Accounting classification	Liability	Liability
11 Original date of issuance	7 April 2022	6 April 2022
12 Perpetual or dated	Dated	Dated
13 Original maturity date	7 October 2032	6 April 2032
14 Issuer call subject to prior supervisory approval	Yes	Yes
15 Optional call date	7 October 2027	6 April 2027
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.
<b>Coupons / dividends</b>		
17 Fixed or floating <sup>(1)</sup>	Fixed	Fixed
18 Coupon rate and any related index	3.863% paid semi-annually on 7 April and 7 October	4.50% paid semi-annually on 6 April and 6 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)	Point of non-viability at the discretion of the Regulator	Point of non-viability at the discretion of the Regulator
32 If write-down, full or partial	Partial	Partial
33 If write-down, permanent or temporary	Permanent	Permanent
34 If temporary write-down, description of write-up	n.a.	n.a.
35 Position in subordination hierarchy in liquidation (instrument type immediately senior to instrument)	Unsubordinated and unsecured obligations	Unsubordinated and unsecured obligations
36 Non compliant transitioned features	No	No
37 If yes, specify non compliant features	n.a.	n.a.

5.2 Main Features of Regulatory Instruments (cont'd)

**Key Features of Regulatory Capital Instruments as at 31 December 2022**

1 Issuer	United Overseas Bank Limited	United Overseas Bank Limited
2 Unique Identifier (ISIN code)	US91127LAE02 / US91127KAE29	XS2230275633
3 Governing law(s) of the instrument	Singapore	Singapore
<b>Regulatory treatment</b>		
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\$891 million	S\$725 million
9 Principal amount (in millions)	US\$750 million	US\$600 million
10 Accounting classification	Liability	Liability
11 Original date of issuance	14 April 2021	16 September 2020
12 Perpetual or dated	Dated	Dated
13 Original maturity date	14 October 2031	16 March 2031
14 Issuer call subject to prior supervisory approval	Yes	Yes
15 Optional call date	14 October 2026	16 March 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.
<b>Coupons / dividends</b>		
17 Fixed or floating <sup>(1)</sup>	Fixed	Fixed
18 Coupon rate and any related index	2.00% paid semi-annually on 14 April and 14 October	1.75% paid semi-annually on 16 March and 16 September
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)	Point of non-viability at the discretion of the Regulator	Point of non-viability at the discretion of the Regulator
32 If write-down, full or partial	Partial	Partial
33 If write-down, permanent or temporary	Permanent	Permanent
34 If temporary write-down, description of write-up	n.a.	n.a.
35 Position in subordination hierarchy in liquidation (instrument type immediately senior to instrument)	Unsubordinated and unsecured obligations	Unsubordinated and unsecured obligations
36 Non compliant transitioned features	No	No
37 If yes, specify non compliant features	n.a.	n.a.



5.2 Main Features of Regulatory Instruments (cont'd)

**Key Features of Regulatory Capital Instruments as at 31 December 2022**

1 Issuer	United Overseas Bank Limited	United Overseas Bank Limited
2 Unique Identifier (ISIN code)	US91127LAC46 / US91127KAC62	SG79A8000002
3 Governing law(s) of the instrument	Singapore	Singapore
<b>Regulatory treatment</b>		
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 ( <i>in millions</i> )	S\$779 million	S\$734 million
9 Principal amount ( <i>in millions</i> )	US\$600 million	S\$750 million
10 Accounting classification	Liability	Liability
11 Original date of issuance	15 April 2019	27 February 2017
12 Perpetual or dated	Dated	Dated
13 Original maturity date	15 April 2029	27 February 2029
14 Issuer call subject to prior supervisory approval	Yes	Yes
15 Optional call date	15 April 2024	27 February 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.
<b>Coupons / dividends</b>		
17 Fixed or floating <sup>(1)</sup>	Fixed	Fixed
18 Coupon rate and any related index	3.75% paid semi-annually on 15 April and 15 October	3.50% paid semi-annually on 27 February and 27 August
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)	Point of non-viability at the discretion of the Regulator	Point of non-viability at the discretion of the Regulator
32 If write-down, full or partial	Partial	Partial
33 If write-down, permanent or temporary	Permanent	Permanent
34 If temporary write-down, description of write-up	n.a.	n.a.
35 Position in subordination hierarchy in liquidation ( <i>instrument type immediately senior to instrument</i> )	Unsubordinated and unsecured obligations	Unsubordinated and unsecured obligations
36 Non compliant transitioned features	No	No
37 If yes, specify non compliant features	n.a.	n.a.

5.2 Main Features of Regulatory Instruments (cont'd)

**Key Features of Regulatory Capital Instruments as at 31 December 2022**

1 Issuer	United Overseas Bank Limited
2 Unique Identifier (ISIN code)	XS1480822516
3 Governing law(s) of the instrument	Singapore
<b>Regulatory treatment</b>	
4 Transitional Basel III rules	Tier 2
5 Post-transitional Basel III rules	Tier 2
6 Eligible at solo/group/group&solo	Group & Solo
7 Instrument type	Subordinated Debt
8 Amount recognised in regulatory capital ( <i>in millions</i> )	S\$118 million
9 Principal amount ( <i>in millions</i> )	HK\$700 million
10 Accounting classification	Liability
11 Original date of issuance	26 August 2016
12 Perpetual or dated	Dated
13 Original maturity date	26 August 2028
14 Issuer call subject to prior supervisory approval	Yes
15 Optional call date	26 August 2023
Tax/ regulatory event call	Yes
Redemption price	Par
16 Subsequent call dates, if applicable	Not applicable. One time call only.
<b>Coupons / dividends</b>	
17 Fixed or floating <sup>(1)</sup>	Fixed
18 Coupon rate and any related index	3.19% paid quarterly on 26 August, 26 November, 26 February and 26 May
19 Existence of a dividend stopper	No
20 Fully discretionary, discretionally or mandatory	Mandatory
21 Existence of step up or incentive to redeem	No
22 Non-cumulative or cumulative	Cumulative
23 Convertible or non-convertible	Non-convertible
24 If convertible, conversion trigger	n.a.
25 If convertible, fully or partially	n.a.
26 If convertible, conversion rate	n.a.
27 If convertible, mandatory or optional conversion	n.a.
28 If convertible, specify instrument type convertible into	n.a.
29 If convertible, specify issuer of instrument it converts into	n.a.
30 Write-down feature	Yes
31 If write-down, write-down triggers(s)	Point of non-viability at the discretion of the Regulator
32 If write-down, full or partial	Partial
33 If write-down, permanent or temporary	Permanent
34 If temporary write-down, description of write-up	n.a.
35 Position in subordination hierarchy in liquidation ( <i>instrument type immediately senior to instrument</i> )	Unsubordinated and unsecured obligations
36 Non compliant transitioned features	No
37 If yes, specify non compliant features	n.a.

## 6 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.

### 6.1 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<sup>5</sup>

\$m		31 Dec 2022
1	Total consolidated assets as per published financial statements	504,260
2	Adjustment for investments in entities that are consolidated for accounting purposes but are outside the regulatory scope of consolidation	(568)
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	4,511
5	Adjustment for SFTs	879
6	Adjustment for off-balance sheet items	60,088
7	Other adjustments	(5,587)
<b>8</b>	<b>Exposure measure</b>	<b>563,583</b>

<sup>5</sup> Computed using quarter-end balances

## 6.2 Leverage Ratio Common Disclosure Template

Exposure Measure Components<sup>5</sup>

\$m		31 Dec 2022	30 Sep 2022
<b>Exposure measures of on-balance sheet items</b>			
1	On-balance sheet items (excluding derivative transactions and SFTs, but including on-balance sheet collateral for derivative transactions or SFTs)	478,139	478,102
2	Asset amounts deducted in determining Tier 1 capital	(5,587)	(4,809)
3	<b>Total exposure measures of on-balance sheet items</b> (excluding derivative transactions and SFTs)	<b>472,552</b>	<b>473,293</b>
<b>Derivative exposure measures</b>			
4	Replacement cost associated with all derivative transactions (net of the eligible cash portion of variation margins)	11,223	14,953
5	Potential future exposure associated with all derivative transactions	6,935	7,710
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	80	84
10	Further adjustments in effective notional amounts and deductions from potential future exposures of written credit derivatives	-	-
11	<b>Total derivative exposure measures</b>	<b>18,238</b>	<b>22,747</b>
<b>SFT exposure measures</b>			
12	Gross SFT assets (with no recognition of accounting netting), after adjusting for sales accounting	11,826	13,525
13	Eligible netting of cash payables and cash receivables	-	-
14	SFT counterparty exposures	879	793
15	SFT exposure measures where a Reporting Bank acts as an agent in the SFTs	-	-
16	<b>Total SFT exposure measures</b>	<b>12,705</b>	<b>14,318</b>
<b>Exposure measures of off-balance sheet items</b>			
17	Off-balance sheet items at notional amount	272,150	260,682
18	Adjustments for calculation of exposure measures of off-balance sheet items	(212,062)	(197,403)
19	<b>Total exposure measures of off-balance sheet items</b>	<b>60,088</b>	<b>63,279</b>
<b>Capital and Total exposures</b>			
20	<b>Tier 1 capital</b>	<b>37,185</b>	<b>36,768</b>
21	<b>Total exposures</b>	<b>563,583</b>	<b>573,637</b>
<b>Leverage ratio</b>			
22	<b>Leverage ratio</b>	<b>6.6%</b>	<b>6.4%</b>

<sup>5</sup> Computed using quarter-end balances

The Group's leverage ratio increased 0.2% point quarter-on-quarter to 6.6% as at 31 December 2022 mainly driven by higher Tier 1 capital and lower asset base.

## 7 Macroprudential Supervisory Measures

### 7.1 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 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		
<b>Total</b>		<b>210,473</b>	<b>0.1%</b>	<b>259</b>

#### Countercyclical Capital Buffer as at 30 June 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%	15,579		
Luxembourg	0.50%	751		
Sum		16,330		
<b>Total</b>		<b>213,787</b>	<b>0.1%</b>	<b>196</b>

## 7.2 Disclosure of G-SIB Indicators

The Basel Committee on Banking Supervision (BCBS) assesses the systemic importance of banks in a global context and has developed an indicator-based methodology for identifying Global Systemically Important Banks (G-SIBs). The G-SIB indicators are based on cross-jurisdictional activity, size, interconnectedness, substitutability/financial institution infrastructure and complexity.

Although UOB is not a G-SIB, it is required under MAS Notice 637 to disclose these indicators on an annual basis. The indicators have been prepared in accordance with the instructions issued by the BCBS. Further details on the G-SIB indicators and assessment methodology are available at BCBS website: <http://www.bis.org/bcbs/gsib/>

### G-SIB Indicators of UOB Group as at 31 December 2022 <sup>6</sup>

	Category	Indicators used for assessing G-SIBs	\$m
1	Cross-jurisdictional activity	Cross-jurisdictional claims	271,235
2		Cross-jurisdictional liabilities	95,186
3	Size	Total exposures as defined for use in the Basel III leverage ratio <sup>7</sup>	569,746
4	Interconnectedness	Intra-financial system assets	112,731
5		Intra-financial system liabilities	73,019
6		Securities outstanding	104,626
7	Substitutability/ financial institution infrastructure	Assets under custody	35,850
8		Payments activity	5,125,152
9		Underwritten transactions in debt and equity markets	14,683
10		Trading Volume - fixed income	318,716
11		Trading Volume - equities and other securities	11,771
12	Complexity	Notional amount of over-the-counter derivatives	917,649
13		Level 3 assets	3,869
14		Trading and available-for-sale securities	14,246

Notes:

<sup>6</sup> Previous disclosures are available at UOB website: [www.UOBgroup.com/investor-relations/financial/index.html](http://www.UOBgroup.com/investor-relations/financial/index.html).

<sup>7</sup> Total exposures differ from the total exposures disclosed under Leverage Ratio as the computation required by the BCBS for purpose of the G-SIB assessment exercise excludes regulatory adjustments but include exposures of insurance subsidiaries.

The Group has been disclosing the above G-SIB indicators since 31 December 2014 on an annual basis.

## 8 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 \$6.9 billion lower quarter-on-quarter mainly due to lower asset base.

\$m		(a)	(b)	(c)
		RWA		Minimum capital requirements
		As at 31 Dec 2022	As at 30 Sep 2022	As at 31 Dec 2022
1	<b>Credit risk (excluding CCR)</b>	<b>216,891</b>	<b>220,807</b>	<b>21,689</b>
2	<i>of which: Standardised Approach</i>	36,749	34,330	3,675
3	<i>of which: F-IRBA</i>	157,479	164,303	15,748
4	<i>of which: supervisory slotting approach</i>	5,384	5,268	538
5	<i>of which: A-IRBA</i>	17,279	16,906	1,728
6	<b>CCR</b>	<b>5,942</b>	<b>7,095</b>	<b>594</b>
7	<i>of which: SA-CCR</i>	4,424	5,331	442
8	<i>of which: CCR internal models method</i>	-	-	-
9	<i>of which: other CCR</i>	813	1,032	81
9a	<i>of which: CCP</i>	705	732	71
10	<b>CVA</b>	<b>2,306</b>	<b>2,544</b>	<b>231</b>
11	<b>Equity exposures under the simple risk weight method</b>	-	-	-
11a	<b>Equity exposures under the IMM</b>	-	-	-
12	<b>Equity investments in funds - look through approach</b>	<b>8</b>	<b>8</b>	<b>1</b>
13	<b>Equity investments in funds - mandate-based approach</b>	<b>3,464</b>	<b>3,888</b>	<b>346</b>
14	<b>Equity investments in funds - fall back approach</b>	<b>#</b>	<b>#</b>	<b>#</b>
14a	<b>Equity investment in funds - partial use of an approach</b>	-	-	-
15	<b>Unsettled transactions</b>	-	-	-
16	<b>Securitisation exposures in the banking book</b>	<b>393</b>	<b>396</b>	<b>39</b>
17	<i>of which: SEC-IRBA</i>	-	-	-
18	<i>of which: SEC-ERBA, including IAA</i>	297	298	29
19	<i>of which: SEC-SA</i>	96	98	10
20	<b>Market risk</b>	<b>7,824</b>	<b>10,393</b>	<b>782</b>
21	<i>of which: SA(MR)</i>	7,824	10,393	782
22	<i>of which: IMA</i>	-	-	-
23	<b>Operational risk</b>	<b>18,229</b>	<b>16,652</b>	<b>1,823</b>
24	<b>Amounts below the thresholds for deduction (subject to 250% risk weight)</b>	<b>4,041</b>	<b>4,178</b>	<b>404</b>
25	<b>Floor adjustment</b>	-	-	-
26	<b>Total</b>	<b>259,098</b>	<b>265,961</b>	<b>25,909</b>

## 9 Linkages between Financial Statements and Regulatory Exposures

### 9.1 Differences between Accounting and Regulatory Scopes of Consolidation and Mapping of Financial Statements Categories with Regulatory Risk Categories

The following table shows the differences between the accounting and regulatory scopes of consolidation, and provides a breakdown of the Group's assets and liabilities by regulatory risk categories.

As at 31 December 2022

\$m	(a)	(b)	(c)	(d)	(e)	(f)	(g)
	Carrying values as reported in published financial statements	Carrying values under scope of regulatory consolidation <sup>8</sup>	Subject to credit risk requirements	Subject to CCR requirements	Carrying values of items:		
Subject to securitisation framework					Subject to market risk requirements		
<b>Assets</b>							
Cash, balances and placements with central banks	49,419	49,419	47,219	742	-	1,660	-
Singapore Government treasury bills and securities	12,056	12,056	11,749	-	-	307	-
Other government treasury bills and securities	19,822	19,817	18,564	-	-	1,253	-
Trading securities	4,606	4,606	-	-	-	4,606	-
Placements and balances with banks	35,410	35,370	23,702	8,130	-	7,410	-
Loans to customers	315,355	315,357	311,517	2,954	753	2,794	-
Derivative financial assets	13,802	13,796	-	13,796	-	13,078	-
Investment securities	35,183	34,807	32,452	-	2,355	-	-
Other assets	7,690	7,561	7,554	#	7	-	-
Deferred tax assets	560	560	-	-	-	-	560
Investment in associates and joint ventures	1,258	1,258	1,248	-	-	-	10
Investment in subsidiaries	-	45	45	-	-	-	-
Investment properties	746	746	746	-	-	-	-
Fixed assets	3,453	3,394	3,394	-	-	-	-
Intangible assets	4,900	4,900	-	-	-	-	4,900
<b>Total assets</b>	<b>504,260</b>	<b>503,692</b>	<b>458,190</b>	<b>25,622</b>	<b>3,115</b>	<b>31,108</b>	<b>5,470</b>
<b>Liabilities</b>							
Deposits and balances of:							
Banks	24,537	24,537	-	9,415	-	2,228	15,047
Customers	368,553	368,560	-	1,750	-	2,213	364,640
Bills and drafts payable	788	788	-	-	-	-	788
Derivative financial liabilities	16,218	16,218	-	16,218	-	14,116	-
Other liabilities	8,803	8,604	-	29	-	-	8,575
Tax payable	802	798	-	-	-	-	798
Deferred tax liabilities	360	358	-	-	-	-	358
Debts issued	40,593	40,593	-	-	-	2,004	38,589
<b>Total liabilities</b>	<b>460,654</b>	<b>460,456</b>	<b>-</b>	<b>27,412</b>	<b>-</b>	<b>20,561</b>	<b>428,795</b>

<sup>8</sup> The amounts shown in column (b) do not equal the sum of the amounts shown in columns (c) to (g) as some of the items are subject to capital requirements from more than one risk category.



## 9.2 Main Sources of Differences between Regulatory Exposure Amounts and Carrying Amounts in Financial Statements

The following table illustrates the main differences between the regulatory exposure amounts and the carrying values in the financial statements in respect of the assets and liabilities subject to credit risk, CCR and securitisation framework requirements.

It is not meaningful to include items subject to market risk requirements as they are based on a different exposure measurement approach.

As at 31 December 2022

\$m		(a)	(b)	(c)	(d)
		Total	Items subject to:		
			Credit risk requirements	CCR requirements	Securitisation framework
1	Asset carrying amount under regulatory scope of consolidation (as per Table 11-4) <sup>9</sup>	498,222	458,190	25,622	3,115
2	Liabilities carrying amount under regulatory scope of consolidation (as per Table 11-4) <sup>9</sup>	31,661	-	27,412	-
3	Total net amount under regulatory scope of consolidation	466,561	458,190	(1,790)	3,115
4	Off-balance sheet amount	268,698	58,926	404	209
5	Differences in derivatives and securities financing transactions		-	53,249	-
6	Differences due to consideration of provisions		4,385	-	-
7	Differences due to other differences		(3,654)	(421)	-
8	<b>Exposures amounts considered for regulatory purposes</b>	<b>572,613</b>	<b>517,847</b>	<b>51,442</b>	<b>3,324</b>

<sup>9</sup> The total column excludes amounts subject to deduction from capital or not subject to regulatory capital

## 9.3 Qualitative Disclosure of Differences between Carrying Amounts in Financial Statements and Regulatory Exposure Amounts

The main differences between accounting amounts as reported in financial statements and regulatory exposure amounts are:

- (i) off-balance sheet exposures including contingent liabilities and commitments after application of Credit Conversion Factor
- (ii) securities financing transactions counterparty exposures and potential future exposures for derivatives, offset by netting under enforceable netting agreements
- (iii) differences due to consideration of provisions
- (iv) differences due to other differences, including recognition of credit risk mitigation.

The valuation process adopted by the Group is governed by the valuation, market data and valuation adjustment policies. These policies set the methodologies and controls for the valuation of financial assets and liabilities where mark-to-market or mark-to-model is required. These policies apply to all assets and liabilities classified as fair value through profit and loss ("FVPL") and fair value through other comprehensive income ("FVOCI"). The valuation processes incorporating the market rates, the methodologies and models, including the analysis of the valuation are regularly reviewed by Group Risk Management.

### 9.3 Qualitative Disclosure of Differences between Carrying Amounts in Financial Statements and Regulatory Exposure Amounts (cont'd)

All valuation models are independently validated by Group Risk Management and approved by the Asset and Liabilities Committee ("ALCO"). The inputs used for valuation are independently verified by checking against information from market sources. These are applicable to products or instruments with liquid markets or those traded on exchanges. Where market prices are not liquid, additional techniques will be used such as historical estimation or available proxies such as reasonableness checks.

The valuation process is further supplemented by valuation adjustments for valuation uncertainties. Valuation adjustment methodologies and adjustments are approved by ALCO. The valuation adjustments set aside include bid/offer adjustments, illiquidity adjustments, parameter adjustments, model uncertainties and other day 1 valuation adjustments where applicable.

### 9.4 Prudent Valuation Adjustments

The table below provides the breakdown of the constituent elements of the Group's prudent valuation adjustment.

This prudent valuation adjustment is applicable for all assets and liabilities measured at fair value (Marked to market or Marked to model) and for which valuation adjustments are required.

The main contributions to the prudent valuation adjustment are Day 1 break fund cost for Callable Structured Notes, model uncertainty for Interest Rate Callables and illiquidity for equity funds.

Significant changes in valuation adjustments are in model uncertainty for interest rate structures and unearned credit.

#### As at 31 December 2022

		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
		Equity	Interest rates	FX	Credit	Commodities	Total	of which: in the trading book	of which: in the banking book
\$m									
1	Closeout uncertainty	12	9	3	8	1	33	17	16
2	of which: Mid-market value	#	8	3	-	1	12	9	3
3	of which: Closeout cost	12	1	#	8	1	21	7	13
4	of which: Concentration	-	-	-	-	-	-	-	-
5	Early termination	-	3	-	-	-	3	3	-
6	Model risk	#	22	#	-	-	23	23	-
7	Operational risk	-	-	-	-	-	-	-	-
8	Investing and funding costs	-	4	-	-	1	5	5	-
9	Unearned credit spreads	-	1	-	1	1	4	4	-
10	Future administrative costs	-	-	-	-	-	-	-	-
11	Other	-	-	-	-	-	-	-	-
12	<b>Total adjustment</b>	<b>12</b>	<b>40</b>	<b>3</b>	<b>9</b>	<b>4</b>	<b>68</b>	<b>51</b>	<b>16</b>

## 9.4 Prudent Valuation Adjustments (cont'd)

As at 31 December 2021

		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
		Equity	Interest rates	FX	Credit	Commodities	Total	of which: in the trading book	of which: in the banking book
\$m									
1	Closeout uncertainty	10	7	3	3	2	25	10	16
2	of which: Mid-market value	#	7	3	-	1	11	9	2
3	of which: Closeout cost	10	1	-	3	1	15	1	14
4	of which: Concentration	-	-	-	-	-	-	-	-
5	Early termination	-	4	-	-	-	4	4	-
6	Model risk	1	26	1	-	#	28	28	-
7	Operational risk	-	-	-	-	-	-	-	-
8	Investing and funding costs	-	5	#	-	-	5	5	-
9	Unearned credit spreads	-	4	-	4	-	7	7	-
10	Future administrative costs	-	-	-	-	-	-	-	-
11	Other	-	-	-	-	-	-	-	-
12	<b>Total adjustment</b>	<b>11</b>	<b>46</b>	<b>4</b>	<b>7</b>	<b>2</b>	<b>70</b>	<b>54</b>	<b>16</b>

## 10 Credit Risk

### 10.1 General Qualitative Disclosures on Credit Risk

Please refer to UOB Annual Report 2022, Risk Management section - Credit Risk.

### 10.2 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 31 December 2022

\$m		(a)	(b)	(c)	(d)	(e)	(f)	(g)
		Gross carrying amount of		Allowances and impairments	of which: allowances for standardised approach exposures		of which: allowances for IRBA exposures	Net values (a+b-c)
		Defaulted exposures	Non-defaulted exposures		of which: specific allowances	of which: general allowances		
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	<b>Total</b>	<b>5,117</b>	<b>468,760</b>	<b>4,587</b>	<b>135</b>	<b>684</b>	<b>3,768</b>	<b>469,290</b>

#### As at 30 June 2022

\$m		(a)	(b)	(c)	(d)	(e)	(f)	(g)
		Gross carrying amount of		Allowances and impairments	of which: allowances for standardised approach exposures		of which: allowances for IRBA exposures	Net values (a+b-c)
		Defaulted exposures	Non-defaulted exposures		of which: specific allowances	of which: general allowances		
1	Loans	5,374	316,303	4,148	153	393	3,602	317,529
2	Debt securities	16	58,536	74	-	35	39	58,478
3	Off-balance sheet	21	98,420	292	7	48	237	98,149
4	<b>Total</b>	<b>5,411</b>	<b>473,259</b>	<b>4,514</b>	<b>160</b>	<b>476</b>	<b>3,878</b>	<b>474,156</b>

### 10.3 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 decrease in defaulted loans and debt securities in the second half of 2022 was mainly due to lower 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 31 December 2022

\$m	(a)
1 <b>Defaulted loans and debt securities at end of the previous semi-annual reporting period</b>	<b>5,390</b>
2 Loans and debt securities that have defaulted since the previous semi-annual reporting period	974
3 Returned to non-defaulted status	(245)
4 Amounts written-off	(240)
5 Other changes	(804)
6 <b>Defaulted loans and debt securities at end of the semi-annual reporting period (1+2+3+4+/-5)</b>	<b>5,075</b>

### 10.4 Additional Disclosures Related to the 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 the financial statements.

## 10.4 Additional Disclosures Related to the Credit Quality of Asset (cont'd)

The following tables show the Group's exposures analysed by geographical areas, industry and residual maturity:

## Major On-balance sheet credit exposures as at 31 December 2022

\$m	Loans to customers (gross)	Government treasury bills and securities	Placements and balances with banks	Debt securities	Total
<b>Analysed by geography<sup>a</sup></b>					
Singapore	160,426	12,066	953	7,564	181,009
Malaysia	33,274	8,553	3,994	2,926	48,747
Thailand	23,488	2,332	4,113	255	30,188
Indonesia	10,043	2,312	1,957	190	14,502
Greater China	48,623	2,163	10,838	7,584	69,208
Others	43,809	4,452	13,555	17,561	79,377
<b>Total</b>	<b>319,663</b>	<b>31,878</b>	<b>35,410</b>	<b>36,080</b>	<b>423,031</b>

<sup>a</sup> By borrower's country of incorporation / operation (for non-individuals) and residence (for individuals).

\$m	Loans to customers (gross)	Government treasury bills and securities	Placements and balances with banks	Debt securities	Total
<b>Analysed by industry</b>					
Transport, storage and communication	14,482	-	-	2,228	16,710
Building and construction	87,178	-	-	1,312	88,490
Manufacturing	22,123	-	-	1,630	23,753
Financial institutions, investment and holding companies	37,949	-	35,410	18,681	92,040
General commerce	36,530	-	-	997	37,527
Professionals and private individuals	28,970	-	-	-	28,970
Housing loans	76,807	-	-	-	76,807
Government	-	31,878	-	-	31,878
Others	15,624	-	-	11,232	26,856
<b>Total</b>	<b>319,663</b>	<b>31,878</b>	<b>35,410</b>	<b>36,080</b>	<b>423,031</b>

## 10.4 Additional Disclosures Related to the Credit Quality of Asset (cont'd)

## Major On-balance sheet credit exposures as at 31 December 2021

\$m	Loans to customers (gross)	Government treasury bills and securities	Placements and balances with banks	Debt securities	Total
<b>Analysed by geography<sup>a</sup></b>					
Singapore	157,543	7,441	976	5,736	171,696
Malaysia	29,836	5,479	2,762	3,072	41,149
Thailand	20,857	1,629	4,251	1,215	27,952
Indonesia	10,162	1,714	2,038	165	14,079
Greater China	48,779	3,942	16,504	6,874	76,099
Others	43,623	2,119	12,385	13,006	71,133
<b>Total</b>	<b>310,800</b>	<b>22,324</b>	<b>38,916</b>	<b>30,068</b>	<b>402,108</b>

<sup>a</sup> By borrower's country of incorporation / operation (for non-individuals) and residence (for individuals).

\$m	Loans to customers (gross)	Government treasury bills and securities	Placements and balances with banks	Debt securities	Total
<b>Analysed by industry</b>					
Transport, storage and communication	13,291	-	-	2,055	15,346
Building and construction	83,351	-	-	1,056	84,407
Manufacturing	22,589	-	-	1,731	24,320
Financial institutions, investment and holding companies	40,828	-	38,916	13,143	92,887
General commerce	37,305	-	-	1,232	38,537
Professionals and private individuals	25,132	-	-	-	25,132
Housing loans	72,069	-	-	-	72,069
Government	-	22,324	-	-	22,324
Others	16,235	-	-	10,851	27,086
<b>Total</b>	<b>310,800</b>	<b>22,324</b>	<b>38,916</b>	<b>30,068</b>	<b>402,108</b>

## 10.4 Additional Disclosures Related to the Credit Quality of Assets (cont'd)

## Contingent liabilities

\$m	31 Dec 2022	31 Dec 2021
<b>Analysed by geography<sup>a</sup></b>		
Singapore	14,489	14,912
Malaysia	3,248	2,857
Thailand	1,891	1,771
Indonesia	1,851	1,648
Greater China	5,698	5,579
Others	4,394	4,533
<b>Total</b>	<b>31,571</b>	<b>31,300</b>

<sup>a</sup> By borrower's country of incorporation / operation (for non-individuals) and residence (for individuals).

\$m	31 Dec 2022	31 Dec 2021
<b>Analysed by industry</b>		
Transport, storage and communication	1,999	1,722
Building and construction	10,196	9,334
Manufacturing	4,217	4,608
Financial institutions, investment and holding companies	3,102	2,993
General commerce	8,959	9,467
Professionals and private individuals	228	233
Others	2,870	2,943
<b>Total</b>	<b>31,571</b>	<b>31,300</b>



## 10.4 Additional Disclosures Related to the Credit Quality of Assets (cont'd)

## Commitments (excluding operating lease and capital commitments)

\$m	31 Dec 2022	31 Dec 2021
<b>Analysed by geography<sup>a</sup></b>		
Singapore	88,901	84,079
Malaysia	20,930	13,761
Thailand	24,414	14,033
Indonesia	6,680	6,137
Greater China	35,085	34,490
Others	23,681	22,440
<b>Total</b>	<b>199,691</b>	<b>174,940</b>

<sup>a</sup> By borrower's country of incorporation / operation (for non-individuals) and residence (for individuals).

\$m	31 Dec 2022	31 Dec 2021
<b>Analysed by industry</b>		
Transport, storage and communication	8,227	7,816
Building and construction	31,894	31,071
Manufacturing	27,774	24,742
Financial institutions, investment and holding companies	28,401	30,238
General commerce	43,651	40,040
Professionals and private individuals	39,983	24,429
Housing Loans	6,839	6,136
Others	12,922	10,468
<b>Total</b>	<b>199,691</b>	<b>174,940</b>

## 10.4 Additional Disclosures Related to the Credit Quality of Assets (cont'd)

## Credit exposures by residual contractual maturity

The following table shows the Group's credit exposures by remaining contractual maturities.

## As at 31 December 2022

\$m	Up to 1 year	Over 1 to 3 years	Over 3 years	No specific maturity	Total
Balances and placements with central banks	40,058	450	-	7,916	48,424
Singapore Government treasury bills and securities	1,694	1,862	8,500	-	12,056
Other government treasury bills and securities	2,446	5,239	12,137	-	19,822
Trading debt securities	3,129	392	137	-	3,658
Placements and balances with banks	33,605	813	19	973	35,410
Loans to customers	115,570	61,484	134,428	3,873	315,355
Derivative financial assets	-	-	-	13,802	13,802
Investment debt securities	5,467	11,632	15,358	(35)	32,422
Others	-	-	-	4,959	4,959
<b>Total</b>	<b>201,969</b>	<b>81,872</b>	<b>170,579</b>	<b>31,488</b>	<b>485,908</b>

The majority of the Group's off-balance sheet credit exposures are short term commitments with maturity of less than 1 year.

## As at 31 December 2021

\$m	Up to 1 year	Over 1 to 3 years	Over 3 years	No specific maturity	Total
Balances and placements with central banks	27,254	-	-	8,510	35,764
Singapore Government treasury bills and securities	1,461	1,883	4,082	-	7,426
Other government treasury bills and securities	4,795	4,432	5,671	-	14,898
Trading debt securities	2,846	690	914	-	4,450
Placements and balances with banks	37,726	796	101	293	38,916
Loans to customers	112,958	56,302	132,192	5,261	306,713
Derivative financial assets	-	-	-	5,362	5,362
Investment debt securities	6,212	7,990	11,450	(34)	25,618
Others	-	-	-	2,764	2,764
<b>Total</b>	<b>193,252</b>	<b>72,093</b>	<b>154,410</b>	<b>22,156</b>	<b>441,911</b>

The majority of the Group's off-balance sheet credit exposures are short term commitments with maturity of less than 1 year.

## 10.4 Additional Disclosures Related to the Credit Quality of Assets (cont'd)

The following tables show the Group's impaired exposures, related allowances and write-offs analysed by geographical areas and industry.

As at 31 December 2022

\$m	Impaired Exposure	Specific allowance	Write-off
<b>Analysed by geography<sup>a</sup></b>			
Singapore	1,570	492	85
Malaysia	1,228	427	20
Thailand	830	281	49
Indonesia	614	227	79
Greater China	456	200	5
Others	362	93	2
<b>Non-performing loans</b>	<b>5,060</b>	<b>1,720</b>	<b>240</b>
Debt securities, contingent items and others	67	35	1
<b>Total</b>	<b>5,127</b>	<b>1,755</b>	<b>241</b>

<sup>a</sup> By borrower's country of incorporation/operation (for non-individuals) and residence (for individuals).

\$m	Impaired Exposure	Specific allowance	Write-off
<b>Analysed by industry</b>			
Transport, storage and communication	402	131	0
Building and construction	1,145	299	73
Manufacturing	840	356	28
Financial institutions, investment and holding companies	51	20	0
General commerce	876	352	56
Professionals and private individuals	348	115	43
Housing loans	922	209	31
Others	476	238	9
<b>Non-performing loans</b>	<b>5,060</b>	<b>1,720</b>	<b>240</b>
Debt securities, contingent items and others	67	35	1
<b>Total</b>	<b>5,127</b>	<b>1,755</b>	<b>241</b>

## 10.4 Additional Disclosures Related to the Credit Quality of Assets (cont'd)

As at 31 December 2021

\$m	Impaired Exposure	Specific allowance	Write-off
<b>Analysed by geography<sup>a</sup></b>			
Singapore	2,170	642	100
Malaysia	829	226	7
Thailand	751	237	63
Indonesia	761	214	112
Greater China	273	117	8
Others	246	89	1
<b>Non-performing loans</b>	<b>5,030</b>	<b>1,525</b>	<b>291</b>
Debt securities, contingent items and others	47	31	1
<b>Total</b>	<b>5,077</b>	<b>1,556</b>	<b>292</b>

<sup>a</sup> By borrower's country of incorporation/operation (for non-individuals) and residence (for individuals).

\$m	Impaired Exposure	Specific allowance	Write-off
<b>Analysed by industry</b>			
Transport, storage and communication	488	160	20
Building and construction	929	233	44
Manufacturing	880	300	52
Financial institutions, investment and holding companies	232	20	0
General commerce	1,002	445	99
Professionals and private individuals	336	82	32
Housing loans	966	213	34
Others	197	72	10
<b>Non-performing loans</b>	<b>5,030</b>	<b>1,525</b>	<b>291</b>
Debt securities, contingent items and others	47	31	1
<b>Total</b>	<b>5,077</b>	<b>1,556</b>	<b>292</b>

The following tables show the Group's past due but not impaired exposures analysed by ageing.

\$m	As at 31 Dec 2022	As at 31 Dec 2021
<b>Past due but not impaired exposure</b>		
< 30 days	3,261	2,616
30 - 59 days	842	518
60 - 90 days	537	212
<b>Total</b>	<b>4,640</b>	<b>3,346</b>

## 10.4 Additional Disclosures Related to the Credit Quality of Assets (cont'd)

The following table show the Group's restructured impaired exposure.

### Restructured impaired exposure

\$m	As at 31 Dec 2022	As at 31 Dec 2021
<b>Total</b>	<b>732</b>	<b>720</b>

## 10.5 Qualitative disclosure related to Credit Risk Mitigation techniques

Please refer to UOB Annual Report 2022, Risk Management section - Credit Risk.

## 10.6 Overview of CRM Techniques

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

Compared with 30 June 2022, the movement in total exposure balances were in line with overall balance sheet movement.

### As at 31 December 2022

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

### As at 30 June 2022

		(a)	(b)	(c)	(d)	(e)
		Exposures Unsecured	Exposures Secured	Exposures secured by collateral	Exposures secured by financial guarantees	Exposures secured by credit derivatives
\$m						
1	Loans	173,020	144,509	116,487	21,147	-
2	Debt Securities	56,143	2,335	47	2,270	-
3	<b>Total</b>	<b>229,163</b>	<b>146,844</b>	<b>116,534</b>	<b>23,417</b>	-
4	Of which: defaulted	1,911	1,653	1,551	-	-

## 10.7 Qualitative disclosure on the use of external credit ratings under the Standardised Approach Credit Risk

Please refer to UOB Annual Report 2022, Risk Management section - Credit Risk.

## 10.8 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 30 June 2022, the increase in RWA was mainly due to higher exposures in Regulatory Retail and Residential Mortgage asset classes partially offset by lower exposures in Corporate asset class.

## As at 31 December 2022

Asset classes and others	(a)	(b)	(c)	(d)	(e)	(f)
	Exposures before CCF and CRM		Exposures post-CCF and post-CRM		RWA and RWA density	
	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	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

## As at 30 June 2022

Asset classes and others	(a)	(b)	(c)	(d)	(e)	(f)
	Exposures before CCF and CRM		Exposures post-CCF and post-CRM		RWA and RWA density	
	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	1,964	-	1,964	-	10	1
2 Central government and central	2,752	39	2,752	39	182	7
3 PSE	6,852	2,541	7,847	611	1,450	17
4 MDB	30	30	71	-	#	#
5 Bank	1,058	88	1,181	14	565	47
6 Corporate	16,807	16,848	14,723	3,121	17,263	97
7 Regulatory retail	1,946	1,714	1,580	15	1,197	75
8 Residential mortgage	1,786	#	1,786	-	777	43
9 CRE	1,750	1,046	1,730	51	1,781	100
10 Equity - SA(EQ)	3,393	173	1,722	173	3,267	172
11 Past due exposures	267	21	267	1	345	129
12 Higher-risk categories	-	-	-	-	-	-
13 Other exposures	9,422	2,605	7,929	559	8,489	100
14 Total	48,027	25,105	43,552	4,584	35,326	73

## 10.9 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 30 June 2022, the increase in exposure was mainly due to higher exposures in Regulatory Retail and Residential Mortgage asset classes partially offset by lower exposures in Corporate asset class.

### 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	-	-	-	-	
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	<b>Total</b>	<b>9,321</b>	<b>-</b>	<b>4,457</b>	<b>3,187</b>	<b>3,129</b>	<b>7,476</b>	<b>24,146</b>	<b>304</b>	<b>1,723</b>	<b>53,743</b>

### As at 30 June 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	1,912	-	52	-	-	-	-	
2	Central government and central bank	2,427	-	-	-	364	-	-	-	-	2,791
3	PSE	3,507	-	3,418	-	1,533	-	-	-	-	8,458
4	MDB	72	-	-	-	#	-	-	-	-	72
5	Bank	-	-	294	-	789	-	111	-	-	1,194
6	Corporate	-	-	663	-	176	-	16,932	72	-	17,843
7	Regulatory retail	-	-	-	-	-	1,595	-	-	-	1,595
8	Residential mortgage	-	-	-	1,514	-	103	170	-	-	1,787
9	CRE	-	-	-	-	-	-	1,781	-	-	1,781
10	Equity - SA(EQ)	-	-	-	-	-	-	-	-	1,894	1,894
11	Past due exposures	-	-	-	-	-	-	113	155	-	268
12	Higher-risk categories	-	-	-	-	-	-	-	-	-	-
13	Other exposures	-	-	-	-	-	-	8,489	-	-	8,489
14	<b>Total</b>	<b>7,918</b>	<b>-</b>	<b>4,427</b>	<b>1,514</b>	<b>2,862</b>	<b>1,698</b>	<b>27,596</b>	<b>227</b>	<b>1,894</b>	<b>48,136</b>

## 10.10 Qualitative disclosure for Internal Ratings-Based Approach models

Please refer to UOB Annual Report 2022, Risk Management section - Credit Risk.

Pillar 3 Disclosure Report

10.11 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 31 December 2022

PD range %	(a) Original on-balance sheet gross exposures \$m	(b) Off-balance sheet exposures pre-CCF \$m	(c) Average CCF %	(d) EAD post-CRM and post-CCF \$m	(e) Average PD %	(f) Number of Obligors	(g) Average LGD %	(h) Average Maturity Years	(i) RWA \$m	(j) RWA density %	(k) EL \$m	(l) TEP \$m
<b>Sovereign</b>												
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)	-	-	-	-	-	-	-	-	-	-	-	
<b>Sub-total</b>	<b>76,721</b>	<b>1,887</b>	<b>1</b>	<b>79,389</b>	<b>0.0</b>	<b>38</b>	<b>45</b>	<b>2.0</b>	<b>4,090</b>	<b>5</b>	<b>6</b>	<b>58</b>
<b>Bank</b>												
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)	-	-	-	-	-	-	-	-	-	-	-	
<b>Sub-total</b>	<b>33,035</b>	<b>2,027</b>	<b>49</b>	<b>34,300</b>	<b>0.2</b>	<b>237</b>	<b>45</b>	<b>1.2</b>	<b>7,490</b>	<b>22</b>	<b>35</b>	<b>107</b>
<b>Corporate</b>												
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	
<b>Sub-total</b>	<b>90,832</b>	<b>144,758</b>	<b>17</b>	<b>118,101</b>	<b>2.4</b>	<b>4,419</b>	<b>42</b>	<b>1.6</b>	<b>70,564</b>	<b>60</b>	<b>1,146</b>	<b>1,751</b>
<b>Corporate small business</b>												
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	
<b>Sub-total</b>	<b>18,975</b>	<b>18,670</b>	<b>11</b>	<b>20,673</b>	<b>8.0</b>	<b>7,525</b>	<b>38</b>	<b>1.9</b>	<b>17,356</b>	<b>84</b>	<b>672</b>	<b>616</b>
<b>Specialised lending - IPRE</b>												
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	
<b>Sub-total</b>	<b>78,144</b>	<b>15,286</b>	<b>56</b>	<b>82,902</b>	<b>1.4</b>	<b>1,851</b>	<b>45</b>	<b>2.0</b>	<b>57,979</b>	<b>70</b>	<b>540</b>	<b>933</b>
<b>Total (sum of portfolios)</b>	<b>297,707</b>	<b>182,628</b>	<b>20</b>	<b>335,365</b>	<b>1.7</b>	<b>14,070</b>	<b>44</b>	<b>1.8</b>	<b>157,479</b>	<b>47</b>	<b>2,399</b>	<b>3,465</b>





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

As at 30 June 2022

PD range %	(a) Original on-balance sheet gross exposures \$m	(b) Off-balance sheet exposures pre-CCF \$m	(c) Average CCF %	(d) EAD post-CRM and post-CCF \$m	(e) Average PD %	(f) Number of Obligors	(g) Average LGD %	(h) Average Maturity Years	(i) RWA \$m	(j) RWA density %	(k) EL \$m	(l) TEP \$m
<b>Sovereign</b>												
0.00 to < 0.15	71,992	1,804	18	75,893	0.0	30	45	1.8	3,397	4	5	
0.15 to <0.25	329	103	100	432	0.2	1	45	3.9	272	63	#	
0.25 to <0.50	18	-	-	18	0.3	1	45	0.8	7	42	#	
0.50 to <0.75	-	-	-	-	-	-	-	-	-	-	-	
0.75 to < 2.50	250	-	-	250	0.9	4	45	2.5	239	95	1	
2.50 to < 10.00	-	-	-	-	-	-	-	-	-	-	-	
10.00 to <100.00	28	-	-	21	18.5	1	45	0.0	47	221	2	
100.00 (Default)	-	-	-	-	-	-	-	-	-	-	-	
<b>Sub-total</b>	<b>72,617</b>	<b>1,907</b>	<b>22</b>	<b>76,614</b>	<b>0.0</b>	<b>37</b>	<b>45</b>	<b>1.8</b>	<b>3,962</b>	<b>5</b>	<b>8</b>	<b>56</b>
<b>Bank</b>												
0.00 to < 0.15	26,018	1,598	52	27,155	0.0	171	45	1.4	4,398	16	6	
0.15 to <0.25	2,482	119	30	2,527	0.2	24	45	0.4	898	36	3	
0.25 to <0.50	354	518	4	374	0.4	15	45	0.3	174	47	1	
0.50 to <0.75	-	20	-	-	-	-	-	-	-	-	-	
0.75 to < 2.50	1,842	153	47	1,907	1.0	17	45	0.6	1,363	71	8	
2.50 to < 10.00	720	51	99	735	4.3	9	45	0.4	933	127	14	
10.00 to <100.00	4	5	95	9	22.5	11	20	0.6	9	102	#	
100.00 (Default)	-	-	-	-	-	-	-	-	-	-	-	
<b>Sub-total</b>	<b>31,420</b>	<b>2,464</b>	<b>41</b>	<b>32,707</b>	<b>0.2</b>	<b>247</b>	<b>45</b>	<b>1.2</b>	<b>7,775</b>	<b>24</b>	<b>32</b>	<b>110</b>
<b>Corporate</b>												
0.00 to < 0.15	11,723	23,453	18	18,109	0.1	265	44	1.7	3,423	19	6	
0.15 to <0.25	7,136	18,093	16	10,229	0.2	344	45	1.6	4,056	40	9	
0.25 to <0.50	20,490	30,821	21	30,951	0.4	733	44	1.8	17,580	57	52	
0.50 to <0.75	13,541	12,104	21	15,951	0.5	334	44	1.6	10,258	64	37	
0.75 to < 2.50	26,805	36,625	16	35,995	1.2	1,527	41	1.5	29,756	83	181	
2.50 to < 10.00	12,584	13,099	17	8,990	5.2	663	35	1.2	9,717	108	154	
10.00 to <100.00	2,411	3,927	14	1,048	17.1	268	32	1.7	1,770	169	62	
100.00 (Default)	2,013	562	3	2,028	100.0	113	44	1.9	-	-	883	
<b>Sub-total</b>	<b>96,703</b>	<b>138,684</b>	<b>18</b>	<b>123,301</b>	<b>2.7</b>	<b>4,247</b>	<b>43</b>	<b>1.6</b>	<b>76,560</b>	<b>62</b>	<b>1,384</b>	<b>1,705</b>
<b>Corporate small business</b>												
0.00 to < 0.15	187	179	1	17	0.1	8	45	1.8	3	19	#	
0.15 to <0.25	127	1,073	10	320	0.2	223	36	1.7	91	28	#	
0.25 to <0.50	1,188	2,756	17	1,898	0.4	585	39	1.7	828	44	3	
0.50 to <0.75	648	1,621	12	1,108	0.5	442	39	1.9	564	51	2	
0.75 to < 2.50	8,704	8,193	9	9,734	1.4	2,978	39	2.0	7,349	76	53	
2.50 to < 10.00	7,230	4,799	13	6,764	5.2	2,574	37	1.7	6,908	102	127	
10.00 to <100.00	1,465	988	13	1,232	19.7	639	37	2.0	2,219	180	91	
100.00 (Default)	905	209	13	932	100.0	221	42	1.9	-	-	395	
<b>Sub-total</b>	<b>20,454</b>	<b>19,818</b>	<b>12</b>	<b>22,005</b>	<b>7.6</b>	<b>7,670</b>	<b>38</b>	<b>1.9</b>	<b>17,962</b>	<b>82</b>	<b>671</b>	<b>604</b>
<b>Specialised lending - IPRE</b>												
0.00 to < 0.15	-	-	-	-	-	-	-	-	-	-	-	
0.15 to <0.25	12,771	4,355	65	15,490	0.2	180	45	1.8	6,017	39	13	
0.25 to <0.50	31,888	6,208	65	35,813	0.4	466	45	2.0	21,106	59	61	
0.50 to <0.75	7,000	959	50	7,126	0.5	151	45	2.5	5,331	75	17	
0.75 to < 2.50	19,564	2,357	40	18,080	1.2	655	45	2.0	17,105	95	96	
2.50 to < 10.00	3,676	801	18	3,414	4.2	313	45	2.1	4,887	143	64	
10.00 to <100.00	445	99	7	396	24.1	34	45	2.1	999	252	43	
100.00 (Default)	450	12	1	450	100.0	43	45	1.3	-	-	202	
<b>Sub-total</b>	<b>75,794</b>	<b>14,791</b>	<b>57</b>	<b>80,769</b>	<b>1.4</b>	<b>1,842</b>	<b>45</b>	<b>2.0</b>	<b>55,445</b>	<b>69</b>	<b>496</b>	<b>882</b>
<b>Total (sum of portfolios)</b>	<b>296,988</b>	<b>177,664</b>	<b>21</b>	<b>335,396</b>	<b>1.9</b>	<b>14,043</b>	<b>44</b>	<b>1.7</b>	<b>161,704</b>	<b>48</b>	<b>2,591</b>	<b>3,357</b>



## 10.11 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 31 December 2022

PD range %	(a) Original on-balance sheet gross exposures \$m	(b) Off-balance sheet exposures pre-CCF \$m	(c) Average CCF %	(d) EAD post-CRM and post-CCF \$m	(e) Average PD %	(f) Number of Obligors	(g) Average LGD %	(h) Average Maturity Years	(i) RWA \$m	(j) RWA density %	(k) EL \$m	(l) TEP \$m
<b>Residential mortgage</b>												
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	
<b>Sub-total</b>	<b>78,338</b>	<b>5,707</b>	<b>78</b>	<b>82,816</b>	<b>1.8</b>	<b>269,575</b>	<b>13</b>		<b>10,114</b>	<b>12</b>	<b>297</b>	<b>335</b>
<b>QRRE</b>												
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	
<b>Sub-total</b>	<b>4,244</b>	<b>17,041</b>	<b>45</b>	<b>11,843</b>	<b>2.5</b>	<b>2,079,919</b>	<b>53</b>		<b>2,553</b>	<b>22</b>	<b>160</b>	<b>64</b>
<b>Other retail exposures (excluding exposures to small business)</b>												
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	
<b>Sub-total</b>	<b>9,520</b>	<b>1,893</b>	<b>62</b>	<b>10,692</b>	<b>2.8</b>	<b>174,498</b>	<b>12</b>		<b>1,488</b>	<b>14</b>	<b>73</b>	<b>45</b>
<b>Other retail small business exposures</b>												
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	
<b>Sub-total</b>	<b>10,143</b>	<b>3,058</b>	<b>55</b>	<b>11,819</b>	<b>3.3</b>	<b>44,353</b>	<b>25</b>		<b>3,124</b>	<b>26</b>	<b>107</b>	<b>102</b>
<b>Total (sum of portfolios)</b>	<b>102,245</b>	<b>27,699</b>	<b>54</b>	<b>117,171</b>	<b>2.1</b>	<b>2,364,699</b>	<b>18</b>		<b>17,279</b>	<b>15</b>	<b>638</b>	<b>546</b>

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

## 10.11 IRBA – Credit Risk Exposures by Portfolio and PD Range (cont'd)

As at 30 June 2022

PD range %	(a) Original on-balance sheet gross exposures \$m	(b) Off-balance sheet exposures pre-CCF \$m	(c) Average CCF %	(d) EAD post-CRM and post-CCF \$m	(e) Average PD %	(f) Number of Obligors	(g) Average LGD %	(h) Average Maturity Years	(i) RWA \$m	(j) RWA density %	(k) EL \$m	(l) TEP \$m
<b>Residential mortgage</b>												
0.00 to < 0.15	117	245	104	372	0.1	5,235	17		15	4	#	
0.15 to <0.25	24,901	1,200	100	26,102	0.2	51,436	13		1,304	5	6	
0.25 to <0.50	22,292	2,243	66	23,761	0.3	97,397	13		1,735	7	9	
0.50 to <0.75	15,961	1,169	100	17,124	0.7	33,924	11		1,840	11	12	
0.75 to < 2.50	10,573	575	37	10,787	1.3	63,440	15		2,494	23	21	
2.50 to < 10.00	1,355	85	57	1,404	3.6	14,983	22		912	65	12	
10.00 to <100.00	1,138	25	31	1,145	20.9	6,905	21		1,316	115	52	
100.00 (Default)	877	0	100	877	100.0	4,689	23		551	63	188	
<b>Sub-total</b>	<b>77,214</b>	<b>5,542</b>	<b>79</b>	<b>81,572</b>	<b>1.9</b>	<b>266,626</b>	<b>13</b>		<b>10,167</b>	<b>12</b>	<b>300</b>	<b>331</b>
<b>QRRE</b>												
0.00 to < 0.15	847	4,988	25	2,114	0.1	392,246	49		65	3	1	
0.15 to <0.25	539	4,405	54	2,911	0.2	613,487	58		187	6	3	
0.25 to <0.50	267	3,678	47	2,014	0.3	596,637	46		143	7	3	
0.50 to <0.75	434	1,089	50	977	0.6	158,228	50		132	14	3	
0.75 to < 2.50	890	1,903	62	2,079	1.4	337,851	48		515	25	14	
2.50 to < 10.00	588	462	65	886	5.6	185,769	62		738	83	31	
10.00 to <100.00	239	167	56	333	30.9	85,917	60		483	145	56	
100.00 (Default)	42	-	-	42	100.0	9,594	68		51	120	26	
<b>Sub-total</b>	<b>3,845</b>	<b>16,692</b>	<b>45</b>	<b>11,356</b>	<b>2.1</b>	<b>2,028,305</b>	<b>52</b>		<b>2,314</b>	<b>20</b>	<b>137</b>	<b>59</b>
<b>Other retail exposures (excluding exposures to small business)</b>												
0.00 to < 0.15	42	266	35	136	0.1	2,306	36		13	9	#	
0.15 to <0.25	857	110	42	903	0.2	23,705	12		43	5	#	
0.25 to <0.50	13	90	53	60	0.3	1,021	17		5	9	#	
0.50 to <0.75	4,177	469	51	4,416	0.6	23,847	10		371	8	3	
0.75 to < 2.50	4,324	729	75	4,870	1.8	24,391	6		360	7	5	
2.50 to < 10.00	358	120	77	451	4.9	45,461	44		312	69	11	
10.00 to <100.00	227	45	79	262	24.2	50,223	51		293	112	31	
100.00 (Default)	124	1	0	124	100.0	7,638	29		130	105	28	
<b>Sub-total</b>	<b>10,122</b>	<b>1,830</b>	<b>60</b>	<b>11,222</b>	<b>2.9</b>	<b>175,821</b>	<b>11</b>		<b>1,527</b>	<b>14</b>	<b>78</b>	<b>51</b>
<b>Other retail small business exposures</b>												
0.00 to < 0.15	14	56	68	52	0.1	259	9		1	2	#	
0.15 to <0.25	688	529	67	1,045	0.2	3,780	20		88	8	#	
0.25 to <0.50	3,353	877	61	3,884	0.4	12,749	22		542	14	3	
0.50 to <0.75	1,190	311	57	1,367	0.5	5,383	24		254	19	2	
0.75 to < 2.50	3,421	974	49	3,897	1.3	14,707	28		1,257	32	14	
2.50 to < 10.00	1,129	239	43	1,232	4.8	5,214	30		565	46	17	
10.00 to <100.00	243	22	39	252	21.5	1,050	28		165	65	15	
100.00 (Default)	200	17	4	200	100.0	827	31		287	143	51	
<b>Sub-total</b>	<b>10,238</b>	<b>3,025</b>	<b>56</b>	<b>11,929</b>	<b>3.2</b>	<b>43,969</b>	<b>25</b>		<b>3,159</b>	<b>26</b>	<b>102</b>	<b>95</b>
<b>Total (sum of portfolios)</b>	<b>101,419</b>	<b>27,089</b>	<b>54</b>	<b>116,079</b>	<b>2.1</b>	<b>2,307,449</b>	<b>18</b>		<b>17,167</b>	<b>15</b>	<b>617</b>	<b>537</b>

As at 30 June 2022, the Group did not use credit derivatives as credit risk mitigant for exposures in its Banking book.

### 10.12 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.

### 10.13 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 September 2022, the decrease in Group's RWA was mainly due to weakening of USD against SGD and rating model updates.

As at 31 December 2022

		(a)
		RWA amounts
\$m		
1	<b>RWA as at end of previous quarter</b>	<b>186,477</b>
2	Asset size	(91)
3	Asset quality	(832)
4	Model updates	(1,691)
5	Methodology and policy	-
6	Acquisitions and disposals	-
7	Foreign exchange movements	(3,721)
8	Other	-
9	<b>RWA as at end of quarter</b>	<b>180,142</b>

10.14 IRBA - Backtesting of PD per portfolio

The following table shows the backtesting of PD of non-retail portfolios whose exposures are under F-IRBA for capital computation. The non-retail portfolio comprises of Sovereign, Bank, Corporate, Corporate Small Business, and Specialised Lending IPRE exposures. Refer to UOB Annual Report 2022, Risk Management section - Credit Risk for key models used, the scope of key models, as well as the percentage of RWA covered by non-retail exposures.

As at 31 December 2022

PD range %	(c)			(d)	(e)	(f)		(g)	(h)	(i)
	S&P	Fitch's Rating	Moody's Rating	Weighted Average PD %	Arithmetic Average PD by Obligors %	Number of Obligors		Defaulted Obligors in the Annual Reporting Period	Of which new defaulted obligors in the Annual Reporting Period	Average Historical Annual Default Rate <sup>10</sup> %
						End of Previous Annual Reporting Period	End of Annual Reporting Period			
<b>Sovereign</b>										
0.00 to < 0.15	AAA to BBB+	AAA to BBB+	Aaa to Baa1	0.0	0.0	29	31	-	-	0.0
0.15 to < 0.25	BBB	BBB	Baa2	0.2	0.2	1	1	-	-	0.0
0.25 to < 0.50	BBB- to BB+	BBB- to BB+	Baa3 to Ba1	0.4	0.4	1	1	-	-	0.0
0.50 to < 0.75	BB	BB	Ba2	0.6	0.6	2	2	-	-	0.0
0.75 to < 2.50	BB- to B+	BB- to B+	Ba3 to B1	0.9	0.9	2	2	-	-	0.0
2.50 to < 10.00	B to B-	B to B-	B2 to B3	-	-	-	-	-	-	0.0
10.00 to < 100.00	CCC	CCC	Caa2	16.6	18.5	1	1	-	-	0.0
<b>Bank</b>										
0.00 to < 0.15	AAA to BBB+	AAA to BBB+	Aaa to Baa1	0.0	0.1	158	168	-	-	0.0
0.15 to < 0.25	BBB	BBB	Baa2	0.2	0.2	22	17	-	-	0.0
0.25 to < 0.50	BBB- to BB+	BBB- to BB+	Baa3 to Ba1	0.4	0.4	17	14	-	-	0.0
0.50 to < 0.75	BB	BB	Ba2	0.6	0.6	5	7	-	-	0.0
0.75 to < 2.50	BB- to B+	BB- to B+	Ba3 to B1	1.0	1.1	8	11	-	-	0.0
2.50 to < 10.00	B to B-	B to B-	B2 to B3	4.3	4.3	10	8	-	-	0.0
10.00 to < 100.00	CCC	CCC	Caa2	27.4	22.4	12	12	-	-	0.0
<b>Corporate</b>										
0.00 to < 0.15	AAA to BBB+	AAA to BBB+	Aaa to Baa1	0.1	0.1	256	337	-	-	0.2
0.15 to < 0.25	BBB	BBB	Baa2	0.2	0.2	278	362	-	-	0.0
0.25 to < 0.50	BBB- to BB+	BBB- to BB+	Baa3 to Ba1	0.4	0.4	656	783	4	-	0.1
0.50 to < 0.75	BB	BB	Ba2	0.5	0.5	326	341	1	-	0.2
0.75 to < 2.50	BB- to B+	BB- to B+	Ba3 to B1	1.3	1.3	1,533	1,576	5	-	0.6
2.50 to < 10.00	B to B-	B to B-	B2 to B3	4.8	4.8	721	660	10	-	2.6
10.00 to < 100.00	CCC	CCC	Caa2	14.9	22.5	283	252	5	-	2.8
<b>Corporate Small Business</b>										
0.00 to < 0.15	AAA to BBB+	AAA to BBB+	Aaa to Baa1	0.1	0.1	8	10	-	-	0.0
0.15 to < 0.25	BBB	BBB	Baa2	0.2	0.2	223	235	-	-	0.0
0.25 to < 0.50	BBB- to BB+	BBB- to BB+	Baa3 to Ba1	0.4	0.4	573	587	2	-	0.2
0.50 to < 0.75	BB	BB	Ba2	0.5	0.5	424	428	-	-	0.1
0.75 to < 2.50	BB- to B+	BB- to B+	Ba3 to B1	1.4	1.4	3,000	3,040	3	-	0.4
2.50 to < 10.00	B to B-	B to B-	B2 to B3	5.1	4.9	2,614	2,449	33	-	1.4
10.00 to < 100.00	CCC	CCC	Caa2	19.5	20.1	626	546	32	-	4.4
<b>Specialised lending - IPRE</b>										
0.00 to < 0.15	AAA to BBB+	AAA to BBB+	Aaa to Baa1	-	-	-	-	-	-	0.0
0.15 to < 0.25	BBB	BBB	Baa2	0.2	0.2	144	189	-	-	0.1
0.25 to < 0.50	BBB- to BB+	BBB- to BB+	Baa3 to Ba1	0.4	0.4	453	437	-	-	0.1
0.50 to < 0.75	BB	BB	Ba2	0.5	0.5	128	141	-	-	0.1
0.75 to < 2.50	BB- to B+	BB- to B+	Ba3 to B1	1.2	1.4	694	708	-	-	0.2
2.50 to < 10.00	B to B-	B to B-	B2 to B3	3.9	3.8	326	310	3	-	1.1
10.00 to < 100.00	CCC	CCC	Caa2	22.7	21.2	30	21	5	-	21.6

<sup>10</sup> Average Historical Annual Default Rate % refers to average of annual observed default rate over a minimum of last five years.

<sup>11</sup> For the PD range of 0.00% to < 0.15% under Corporate Asset Class, the average historical default rate is higher than the upper bound due to one default from a strongly rated counterparty as a result of fraud in previous years.

10.14 IRBA - BACKTESTING OF PD PER PORTFOLIO (cont'd)

As at 31 December 2021

PD range %	(c)			(d)	(e)	(f)		(g)	(h)	(i)
	S&P	Fitch's Rating	Moody's Rating	Weighted Average PD %	Arithmetic Average PD by Obligor %	End of Previous Annual Reporting Period	End of Annual Reporting Period	Defaulted Obligor in the Annual Reporting Period	Of which new defaulted obligors in the Annual Reporting Period	Average Historical Annual Default Rate <sup>10</sup> %
<b>Sovereign</b>										
0.00 to < 0.15	AAA to BBB+	AAA to BBB+	Aaa to Baa1	0.0	0.0	24	29	-	-	0.0
0.15 to <0.25	BBB	BBB	Baa2	0.2	0.2	2	1	-	-	0.0
0.25 to <0.50	BBB- to BB+	BBB- to BB+	Baa3 to Ba1	0.4	0.4	-	1	-	-	0.0
0.50 to <0.75	BB	BB	Ba2	0.6	0.6	2	2	-	-	0.0
0.75 to < 2.50	BB- to B+	BB- to B+	Ba3 to B1	0.9	0.9	2	2	-	-	0.0
2.50 to < 10.00	B to B-	B to B-	B2 to B3	-	-	-	-	-	-	0.0
10.00 to <100.00	CCC	CCC	Caa2	18.5	18.5	1	1	-	-	0.0
<b>Bank</b>										
0.00 to < 0.15	AAA to BBB+	AAA to BBB+	Aaa to Baa1	0.0	0.1	164	158	-	-	0.0
0.15 to <0.25	BBB	BBB	Baa2	0.2	0.2	24	22	-	-	0.0
0.25 to <0.50	BBB- to BB+	BBB- to BB+	Baa3 to Ba1	0.4	0.4	14	17	-	-	0.0
0.50 to <0.75	BB	BB	Ba2	0.6	0.6	6	5	-	-	0.0
0.75 to < 2.50	BB- to B+	BB- to B+	Ba3 to B1	1.1	1.2	13	8	-	-	0.0
2.50 to < 10.00	B to B-	B to B-	B2 to B3	4.3	4.3	7	10	-	-	0.0
10.00 to <100.00	CCC	CCC	Caa2	19.0	21.7	11	12	-	-	0.0
<b>Corporate</b>										
0.00 to < 0.15	AAA to BBB+	AAA to BBB+	Aaa to Baa1	0.1	0.1	232	256	-	-	0.2
0.15 to <0.25	BBB	BBB	Baa2	0.2	0.2	189	278	-	-	0.0
0.25 to <0.50	BBB- to BB+	BBB- to BB+	Baa3 to Ba1	0.4	0.4	539	656	-	-	0.1
0.50 to <0.75	BB	BB	Ba2	0.5	0.5	339	326	-	-	0.2
0.75 to < 2.50	BB- to B+	BB- to B+	Ba3 to B1	1.2	1.3	1,599	1,533	3	-	0.7
2.50 to < 10.00	B to B-	B to B-	B2 to B3	5.5	5.1	716	721	10	-	2.7
10.00 to <100.00	CCC	CCC	Caa2	17.3	21.8	355	283	8	-	2.9
<b>Corporate Small Business</b>										
0.00 to < 0.15	AAA to BBB+	AAA to BBB+	Aaa to Baa1	0.1	0.1	5	8	-	-	0.0
0.15 to <0.25	BBB	BBB	Baa2	0.2	0.2	198	223	-	-	0.1
0.25 to <0.50	BBB- to BB+	BBB- to BB+	Baa3 to Ba1	0.4	0.4	468	573	-	-	0.1
0.50 to <0.75	BB	BB	Ba2	0.5	0.5	478	424	1	-	0.1
0.75 to < 2.50	BB- to B+	BB- to B+	Ba3 to B1	1.4	1.4	3,078	3,000	8	-	0.4
2.50 to < 10.00	B to B-	B to B-	B2 to B3	5.0	5.1	2,498	2,614	22	-	1.4
10.00 to <100.00	CCC	CCC	Caa2	19.9	19.9	561	626	15	-	4.3
<b>Specialised lending - IPRE</b>										
0.00 to < 0.15	AAA to BBB+	AAA to BBB+	Aaa to Baa1	-	-	-	-	-	-	0.0
0.15 to <0.25	BBB	BBB	Baa2	0.2	0.2	134	144	-	-	0.1
0.25 to <0.50	BBB- to BB+	BBB- to BB+	Baa3 to Ba1	0.4	0.4	383	453	-	-	0.1
0.50 to <0.75	BB	BB	Ba2	0.5	0.5	132	128	-	-	0.1
0.75 to < 2.50	BB- to B+	BB- to B+	Ba3 to B1	1.2	1.3	727	694	1	-	0.2
2.50 to < 10.00	B to B-	B to B-	B2 to B3	4.5	4.0	403	326	4	-	1.1
10.00 to <100.00	CCC	CCC	Caa2	23.4	21.5	21	30	4	-	22.1

<sup>10</sup> Average Historical Annual Default Rate % refers to average of annual observed default rate over a minimum of last five years.

<sup>11</sup> For the PD range of 0.00% to < 0.15% under Corporate Asset Class, the average historical default rate is higher than the upper bound due to one default from a strongly rated counterparty as a result of fraud in previous years.

10.14 IRBA - Backtesting of PD per portfolio (cont'd)

The following table shows the backtesting of PD of retail portfolios whose exposures are under A-IRBA for capital computation. The retail portfolio comprises of Residential Mortgage, QRRE and Other Retail exposures. Refer to UOB Annual Report 2022, Risk Management section - Credit Risk for key models used, the scope of the key models as well as the percentage of RWA covered by the retail exposures.

The defaulted obligors for Other retail exposures asset sub-class (excluding exposure to small business) for PD range 10% to <100% in the Annual Reporting Period are mostly coming from non-borrowing accounts with overdue fees that do not meet the minimum balances. Without these accounts, there are only 3,825 defaulted obligors in the annual reporting period and 68 new defaulted obligors in the annual reporting period.

As at 31 December 2022

PD range %	(c) <sup>12</sup>			(d) Weighted Average PD %	(e) Arithmetic Average PD by Obligor %	(f) Number of Obligor		(g) Defaulted Obligor in the Annual Reporting Period	(h) new defaulted obligor in the Annual Reporting Period	(i) Average Historical Annual Default Rate <sup>10</sup> %
	S&P	Fitch's Rating	Moody's Rating			End of Previous Annual Reporting Period	End of Annual Reporting Period			
<b>Residential mortgage</b>										
0.00 to < 0.15				0.1	0.1	8,478	4,685	8	1	0.1
0.15 to <0.25				0.2	0.2	45,609	51,355	27	3	0.1
0.25 to <0.50				0.3	0.3	97,544	97,469	341	1	0.2
0.50 to <0.75				0.7	0.6	33,440	36,749	88	19	0.3
0.75 to < 2.50				1.3	1.2	62,853	64,156	501	23	0.7
2.50 to < 10.00				3.6	3.9	14,739	15,156	654	4	2.7
10.00 to <100.00				21.6	22.4	6,312	6,839	1,099	1	17.2
<b>Qualifying Retail Revolving Exposure (QRRE)</b>										
0.00 to < 0.15				0.1	0.1	380,354	434,980	348	-	0.1
0.15 to <0.25				0.2	0.2	613,763	580,549	998	28	0.1
0.25 to <0.50				0.3	0.3	594,178	569,586	781	55	0.1
0.50 to <0.75				0.6	0.6	158,747	177,785	863	-	0.5
0.75 to < 2.50				1.4	1.4	341,104	342,065	3,979	138	0.9
2.50 to < 10.00				5.6	5.4	183,853	209,619	8,828	298	3.4
10.00 to <100.00				33.7	29.4	90,910	111,562	17,431	57	16.3
<b>Other retail exposures (excluding exposures to small business)</b>										
0.00 to < 0.15				0.1	0.1	2,177	2,219	2	-	0.1
0.15 to <0.25				0.2	0.2	26,427	22,971	2	-	0.2
0.25 to <0.50				0.3	0.3	955	980	1	-	0.3
0.50 to <0.75				0.6	0.6	23,090	21,937	112	-	0.4
0.75 to < 2.50				1.8	1.4	25,417	23,691	207	24	0.4
2.50 to < 10.00				5.1	5.3	47,981	42,820	1,962	154	3.5
10.00 to <100.00				25.6	46.1	53,258	53,459	24,766	9,278	20.2
<b>Other retail small business exposures</b>										
0.00 to < 0.15				0.1	0.1	262	235	-	-	0.0
0.15 to <0.25				0.2	0.2	3,859	3,639	2	-	0.1
0.25 to <0.50				0.4	0.4	12,447	12,585	30	-	0.2
0.50 to <0.75				0.5	0.5	5,348	5,406	16	1	0.2
0.75 to < 2.50				1.3	1.3	14,433	15,255	124	4	0.8
2.50 to < 10.00				4.8	4.4	5,172	5,162	185	14	2.9
10.00 to <100.00				21.1	22.3	1,169	1,180	143	-	17.3

<sup>10</sup> Average Historical Annual Default Rate % refers to average of annual observed default rate over a minimum of last five years.

<sup>12</sup> Not Applicable for A-IRBA Retail asset classes

## 10.14 IRBA - BACKTESTING OF PD PER PORTFOLIO (cont'd)

As at 31 December 2021

PD range %	(c) <sup>12</sup>			(d)	(e)	(f)		(g)	(h)	(i)
	S&P	Fitch's Rating	Moody's Rating	Weighted Average PD %	Arithmetic Average PD by Obligor %	End of Previous Annual Reporting Period	End of Annual Reporting Period	Defaulted Obligor in the Annual Reporting Period	new defaulted obligors in the Annual Reporting Period	Average Historical Annual Default Rate <sup>10</sup> %
<b>Residential mortgage</b>										
0.00 to < 0.15				0.1	0.1	7,902	8,478	13	2	0.1
0.15 to <0.25				0.2	0.2	42,077	45,609	47	2	0.2
0.25 to <0.50				0.3	0.3	93,189	97,544	390	5	0.1
0.50 to <0.75				0.7	0.6	31,597	33,440	104	13	0.3
0.75 to < 2.50				1.3	1.3	59,433	62,853	488	25	0.6
2.50 to < 10.00				3.8	4.0	17,252	14,739	780	116	2.5
10.00 to <100.00				21.7	26.6	8,469	6,312	1,890	18	17.3
<b>Qualifying Retail Revolving Exposure (QRRE)</b>										
0.00 to < 0.15				0.1	0.1	359,484	380,354	270	-	0.1
0.15 to <0.25				0.2	0.2	596,970	613,763	845	17	0.1
0.25 to <0.50				0.3	0.3	575,545	594,178	684	22	0.1
0.50 to <0.75				0.6	0.6	193,628	158,747	881	-	0.5
0.75 to < 2.50				1.4	1.4	371,004	341,104	4,592	50	0.9
2.50 to < 10.00				5.6	5.5	207,831	183,853	9,597	64	3.3
10.00 to <100.00				30.4	25.8	109,436	90,910	19,999	1	16.3
<b>Other retail exposures (excluding exposures to small business)</b>										
0.00 to < 0.15				0.1	0.1	2,452	2,177	4	1	0.1
0.15 to <0.25				0.2	0.2	27,737	26,427	3	-	0.2
0.25 to <0.50				0.3	0.3	983	955	2	-	0.3
0.50 to <0.75				0.6	0.6	23,776	23,090	220	1	0.4
0.75 to < 2.50				1.8	1.3	26,066	25,417	139	14	0.4
2.50 to < 10.00				4.9	5.2	59,639	47,981	2,513	79	3.5
10.00 to <100.00				22.9	44.4	62,311	53,258	38,438	11,377	19.3
<b>Other retail small business exposures</b>										
0.00 to < 0.15				0.1	0.1	268	262	-	-	0.1
0.15 to <0.25				0.2	0.2	3,766	3,859	3	-	0.1
0.25 to <0.50				0.4	0.4	11,447	12,447	18	-	0.1
0.50 to <0.75				0.5	0.5	5,254	5,348	8	-	0.2
0.75 to < 2.50				1.3	1.3	14,606	14,433	118	1	0.7
2.50 to < 10.00				4.7	4.4	5,395	5,172	206	10	2.7
10.00 to <100.00				21.8	22.2	1,371	1,169	300	-	17.9

<sup>10</sup> Average Historical Annual Default Rate % refers to average of annual observed default rate over a minimum of last five years.<sup>12</sup> Not Applicable for A-IRBA Retail asset classes



### 10.15 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 30 June 2022, there was no material increase in Exposure and RWA.

As at 31 December 2022

\$m

Specialised lending											
Other than HVCRE											
Regulatory categories	Remaining maturity	On-balance sheet amount	Off-balance sheet	Risk weight	Exposure amount					RWA	Expected Losses
					PF	OF	CF	IPRE	Total		
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
<b>Total</b>		<b>5,185</b>	<b>16,019</b>		<b>4,088</b>	-	<b>1,244</b>	<b>1,771</b>	<b>7,103</b>	<b>5,384</b>	<b>65</b>

As at 30 June 2022

\$m

Specialised lending											
Other than HVCRE											
Regulatory categories	Remaining maturity	On-balance sheet amount	Off-balance sheet	Risk weight	Exposure amount					RWA	Expected Losses
					PF	OF	CF	IPRE	Total		
Strong	< 2.5 years	812	13,558	50%	207	-	1,276	386	1,869	990	-
	≥ 2.5 years	2,251	890	70%	2,668	-	38	191	2,898	2,150	12
Good	< 2.5 years	828	1,209	70%	588	-	14	415	1,016	754	4
	≥ 2.5 years	810	277	90%	580	-	-	422	1,002	956	8
Satisfactory		215	183	115%	-	-	-	263	263	321	7
Weak		55	9	250%	1	-	-	59	60	159	5
Default		54	20	-	-	-	15	38	54	-	27
<b>Total</b>		<b>5,025</b>	<b>16,146</b>		<b>4,044</b>	-	<b>1,343</b>	<b>1,774</b>	<b>7,162</b>	<b>5,330</b>	<b>63</b>

## 11 Counterparty Credit Risk (CCR)

### 11.1 Qualitative disclosures related to CCR

Please refer to UOB Annual Report 2022, Risk Management section - Credit Risk.

### 11.2 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 30 June 2022, CCR RWA was lower due to reduced volume of derivative trades.

#### As at 31 December 2022

		(a)	(b)	(c)	(d)	(e)	(f)
		Replacement cost	Potential future exposure	Effective EPE	$\alpha$ used for computing regulatory EAD	EAD (post-CRM)	RWA
\$m							
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	<b>Total</b>						<b>5,237</b>

#### As at 30 June 2022

		(a)	(b)	(c)	(d)	(e)	(f)
		Replacement cost	Potential future exposure	Effective EPE	$\alpha$ used for computing regulatory EAD	EAD (post-CRM)	RWA
\$m							
1	SA-CCR (for derivatives)	2,858	5,303		1.4	11,425	4,725
2	CCR internal models method (for derivatives and SFTs)			-	-	-	-
3	FC(SA) (for SFTs)					-	-
4	FC(CA) (for SFTs)					24,141	719
5	VaR for SFTs					-	-
6	<b>Total</b>						<b>5,444</b>

### 11.3 CVA Risk Capital Requirements

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

As at 31 December 2022

		(a)	(b)
\$m		EAD (post-CRM)	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	<b>Total portfolios subject to the CVA risk capital requirement</b>	<b>10,097</b>	<b>2,306</b>

As at 30 June 2022

		(a)	(b)
\$m		EAD (post-CRM)	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	11,105	2,225
4	<b>Total portfolios subject to the CVA risk capital requirement</b>	<b>11,105</b>	<b>2,225</b>

## 11.4 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 30 June 2022, the reduction in exposure was mainly from Central government and central bank and Corporates asset classes.

### As at 31 December 2022

\$m	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
Risk weight									Total Credit Exposure
Asset classes	0%	10%	20%	50%	75%	100%	150%	Others	
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
<b>Total</b>	<b>240</b>	<b>-</b>	<b>53</b>	<b>283</b>	<b>1</b>	<b>316</b>	<b>#</b>	<b>-</b>	<b>893</b>

### As at 30 June 2022

\$m	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
Risk weight									Total Credit Exposure
Asset classes	0%	10%	20%	50%	75%	100%	150%	Others	
Central government and central bank	479	-	-	16	-	-	-	-	495
PSE	9	-	3	56	-	-	-	-	68
MDB	54	-	-	35	-	-	-	-	89
Bank	-	-	14	183	-	1	-	-	198
Corporate	-	-	1	1	-	394	-	-	396
Regulatory retail	-	-	-	-	1	-	-	-	1
Other exposures	-	-	-	-	-	69	-	-	69
<b>Total</b>	<b>542</b>	<b>-</b>	<b>18</b>	<b>291</b>	<b>1</b>	<b>464</b>	<b>-</b>	<b>-</b>	<b>1,316</b>

## 11.5 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.

Compared with 30 June 2022, the reduction in exposure was mainly due to reduced volume of derivative trades.

## 11.5 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

PD range %	(a)	(b)	(c)	(d)	(e)	(f)	(g)
	EAD post-CRM \$m	Average PD %	Number of obligors	Average LGD %	Average maturity Years	RWA \$m	RWA density %
<b>Sovereign</b>							
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)	-	-	-	-	-	-	-
<b>Sub-total</b>	<b>7,605</b>	<b>0.0</b>	<b>9</b>	<b>8</b>	<b>0.5</b>	<b>35</b>	<b>0</b>
<b>Bank</b>							
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)	-	-	-	-	-	-	-
<b>Sub-total</b>	<b>17,050</b>	<b>0.1</b>	<b>174</b>	<b>22</b>	<b>0.3</b>	<b>1,443</b>	<b>8</b>
<b>Corporate</b>							
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	-	-
<b>Sub-total</b>	<b>8,520</b>	<b>1.1</b>	<b>801</b>	<b>24</b>	<b>0.7</b>	<b>2,999</b>	<b>35</b>
<b>Corporate small business</b>							
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	-	-
<b>Sub-total</b>	<b>55</b>	<b>1.8</b>	<b>563</b>	<b>42</b>	<b>0.7</b>	<b>34</b>	<b>61</b>
<b>Specialised lending - IPRE</b>							
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)	-	-	-	-	-	-	-
<b>Sub-total</b>	<b>186</b>	<b>0.8</b>	<b>132</b>	<b>45</b>	<b>2.0</b>	<b>146</b>	<b>79</b>
<b>Total (sum of portfolios)</b>	<b>33,416</b>	<b>0.3</b>	<b>1,679</b>	<b>19</b>	<b>0.5</b>	<b>4,657</b>	<b>14</b>

## 11.5 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 2022

PD range %	(a)	(b)	(c)	(d)	(e)	(f)	(g)
	EAD post-CRM \$m	Average PD %	Number of obligors	Average LGD %	Average maturity Years	RWA \$m	RWA density %
<b>Sovereign</b>							
0.00 to < 0.15	6,031	0.0	5	8	0.8	5	0
0.15 to <0.25	-	-	-	-	-	-	-
0.25 to <0.50	3	0.3	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	-	-	-	-	-	-	-
100.00 (Default)	-	-	-	-	-	-	-
<b>Sub-total</b>	<b>6,034</b>	<b>0.0</b>	<b>6</b>	<b>8</b>	<b>0.8</b>	<b>6</b>	<b>0</b>
<b>Bank</b>							
0.00 to < 0.15	16,310	0.1	131	21	0.4	1,209	7
0.15 to <0.25	1,550	0.2	21	28	0.2	266	17
0.25 to <0.50	372	0.3	8	14	0.3	58	16
0.50 to <0.75	26	0.6	1	1	0.0	#	1
0.75 to < 2.50	34	0.9	9	13	0.4	8	23
2.50 to < 10.00	3	4.3	3	45	0.6	4	127
10.00 to <100.00	#	27.9	1	45	0.0	#	240
100.00 (Default)	-	-	-	-	-	-	-
<b>Sub-total</b>	<b>18,295</b>	<b>0.1</b>	<b>174</b>	<b>22</b>	<b>0.4</b>	<b>1,545</b>	<b>8</b>
<b>Corporate</b>							
0.00 to < 0.15	1,839	0.1	77	36	1.0	310	17
0.15 to <0.25	2,580	0.2	67	7	0.3	190	7
0.25 to <0.50	1,993	0.4	167	20	0.8	578	29
0.50 to <0.75	947	0.5	90	14	0.6	188	20
0.75 to < 2.50	1,366	1.2	291	25	0.5	659	48
2.50 to < 10.00	847	4.9	102	45	0.6	1,114	132
10.00 to <100.00	14	23.1	22	28	0.6	21	146
100.00 (Default)	13	100.0	1	45	4.4	-	-
<b>Sub-total</b>	<b>9,599</b>	<b>1.0</b>	<b>817</b>	<b>22</b>	<b>0.6</b>	<b>3,060</b>	<b>32</b>
<b>Corporate small business</b>							
0.00 to < 0.15	#	0.1	1	45	0.0	#	15
0.15 to <0.25	9	0.2	44	44	0.4	2	21
0.25 to <0.50	16	0.4	75	43	2.0	8	48
0.50 to <0.75	1	0.5	32	44	0.3	#	40
0.75 to < 2.50	16	1.4	229	41	0.6	10	63
2.50 to < 10.00	10	4.6	197	39	0.5	10	94
10.00 to <100.00	1	20.5	37	41	0.1	1	203
100.00 (Default)	#	100.0	3	44	0.3	-	-
<b>Sub-total</b>	<b>53</b>	<b>1.8</b>	<b>618</b>	<b>42</b>	<b>1.0</b>	<b>31</b>	<b>59</b>
<b>Specialised lending - IPRE</b>							
0.00 to < 0.15	-	-	-	-	-	-	-
0.15 to <0.25	4	0.2	13	45	1.5	1	35
0.25 to <0.50	118	0.4	66	45	1.7	66	56
0.50 to <0.75	11	0.5	10	45	3.4	10	86
0.75 to < 2.50	89	0.9	20	45	2.3	81	91
2.50 to < 10.00	#	8.9	2	45	0.9	#	176
10.00 to <100.00	#	16.6	2	45	2.5	#	239
100.00 (Default)	#	100.0	1	45	2.5	-	-
<b>Sub-total</b>	<b>222</b>	<b>0.7</b>	<b>114</b>	<b>45</b>	<b>2.0</b>	<b>158</b>	<b>71</b>
<b>Total (sum of portfolios)</b>	<b>34,203</b>	<b>0.3</b>	<b>1,729</b>	<b>20</b>	<b>0.5</b>	<b>4,799</b>	<b>14</b>

## 11.5 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 31 December 2022

PD range %	(a)	(b)	(c)	(d)	(e)	(f)	(g)
	EAD post- CRM \$m	Average PD %	Number of obligors	Average LGD %	Average maturity Years	RWA \$m	RWA density %
<b>Other retail small business exposures</b>							
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)	-	-	-	-		-	-
<b>Sub-total</b>	<b>6</b>	<b>1.7</b>	<b>440</b>	<b>74</b>		<b>5</b>	<b>101</b>
<b>Total (sum of portfolios)</b>	<b>6</b>	<b>1.7</b>	<b>440</b>	<b>74</b>		<b>5</b>	<b>101</b>

As at 30 June 2022

PD range %	(a)	(b)	(c)	(d)	(e)	(f)	(g)
	EAD post- CRM \$m	Average PD %	Number of obligors	Average LGD %	Average maturity Years	RWA \$m	RWA density %
<b>Other retail small business exposures</b>							
0.00 to < 0.15	#	0.1	4	73		#	13
0.15 to <0.25	#	0.2	29	59		#	24
0.25 to <0.50	1	0.4	77	49		#	33
0.50 to <0.75	#	0.5	38	65		#	51
0.75 to < 2.50	1	1.2	146	67		1	77
2.50 to < 10.00	1	3.3	181	77		1	114
10.00 to <100.00	#	17.4	2	81		#	176
100.00 (Default)	-	-	-	-		-	-
<b>Sub-total</b>	<b>3</b>	<b>1.6</b>	<b>477</b>	<b>66</b>		<b>2</b>	<b>74</b>
<b>Total (sum of portfolios)</b>	<b>3</b>	<b>1.6</b>	<b>477</b>	<b>66</b>		<b>2</b>	<b>74</b>

## 11.6 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 30 June 2022, the movement in collateral posted and received for derivative transactions was mainly in "Cash other currencies".

### 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	-
<b>Total</b>	-	<b>573</b>	-	<b>3,736</b>	<b>23,459</b>	<b>24,487</b>

### As at 30 June 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	-	7	-	-	1,237	1,244
Cash other currencies	-	680	-	1,775	10,373	10,857
Domestic sovereign debt	-	83	-	73	1,160	2,726
Other sovereign debt	-	185	-	406	6,365	4,817
Government agency debt	-	-	-	-	22	20
Corporate bonds	-	75	-	27	3,911	5,070
Equity securities	-	-	-	-	-	-
Other collateral	-	-	-	-	173	-
<b>Total</b>	-	<b>1,030</b>	-	<b>2,281</b>	<b>23,241</b>	<b>24,734</b>



## 11.7 Credit Derivative Exposures

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

Compared with 30 June 2022, the decrease in credit protection bought was mainly from total return swaps.

### As at 31 December 2022

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

### As at 30 June 2022

		(a)	(b)
		Protection bought	Protection sold
\$m			
	<b>Notionals</b>		
1	Single-name credit default swaps	113	71
2	Index credit default swaps	69	-
3	Total return swaps	908	12
<b>4</b>	<b>Total notionals</b>	<b>1,090</b>	<b>83</b>
	<b>Fair values</b>		
5	Positive fair value (asset)	59	1
6	Negative fair value (liability)	6	1

## 11.8 RWA flow statements under CCR internal models method

UOB does not use CCR Internal Models Method.

## 11.9 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 30 June 2022, there was an increase in volume and RWA.

## 11.9 Exposures to Central Counterparties (cont'd)

As at 31 December 2022

\$m		(a)	(b)
		EAD (post-CRM)	RWA
1	<b>Total exposures to qualifying CCPs</b>		<b>705</b>
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	<b>Exposures to non-QCCPs (total)</b>		<b>-</b>
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 30 June 2022

\$m		(a)	(b)
		EAD (post-CRM)	RWA
1	<b>Total exposures to qualifying CCPs</b>		<b>544</b>
2	Exposures to qualifying CCPs (excluding collateral and default fund contributions)	13,532	484
3	arising from: OTC derivative transactions;	12,940	472
4	arising from: Exchange-traded derivative transactions;	592	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	1,588	58
9	Pre-funded default fund contributions	7	2
10	Unfunded default fund contributions	-	-
11	<b>Exposures to non-QCCPs (total)</b>		<b>-</b>
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	-	-

## 12 Securitisation

### 12.1 Qualitative disclosures related to securitisation exposures

Please refer to UOB Annual Report 2022, Risk Management section - Credit Risk.

### 12.2 Securitisation Exposures in the Banking Book

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

Compared with 30 June 2022, the increase in securitisation exposures mainly arose from residential mortgage-backed securities.

		As at 31 Dec 2022	As at 30 Jun 2022
		(a)	
		UOB acts as investor	
		Traditional	
\$m			
1	<b>Total retail</b>	<b>3,261</b>	<b>3,141</b>
2	of which: residential mortgage	3,261	3,041
3	of which: credit card	-	100
4	<b>Total wholesale</b>	<b>63</b>	<b>66</b>
5	of which: commercial mortgage	63	66

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

### 12.3 Securitisation Exposures in the Trading Book

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

### 12.4 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.

**12.5 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 30 June 2022, the increase in securitisation exposures mainly arose from residential mortgage-backed securities.

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			
	≤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%
\$m																	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

As at 30 June 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			
	≤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%
\$m																	
1 Total exposures	3,041	-	166	-	-	-	2,607	600	-	-	334	98	-	-	33	10	-
2 Traditional securitisation	3,041	-	166	-	-	-	2,607	600	-	-	334	98	-	-	33	10	-
3 of which: securitisation	3,041	-	166	-	-	-	2,607	600	-	-	334	98	-	-	33	10	-
4 of which: retail underlying	3,041	-	100	-	-	-	2,579	562	-	-	316	60	-	-	31	6	-
5 of which: wholesale	-	-	66	-	-	-	28	38	-	-	18	38	-	-	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



## 13 Market Risk

### 13.1 Qualitative Disclosures related to Market Risk and Internal Model Approach (IMA)

Please refer to UOB Annual Report 2022, Risk Management section - Market Risk.

### 13.2 Market Risk under Standardised Approach

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

Compared with 30 June 2022, the decrease in RWA was mainly due to lower interest rate and foreign exchange risk, offset by increase in commodity risk.

As at 31 December 2022

\$m		(a)
		RWA
	<b>Products excluding Options</b>	
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
	<b>Options</b>	
5	Simplified Approach	
6	Delta-Plus Method	
7	Scenario Approach	1,151
8	Securitisation	
9	<b>Total</b>	<b>7,824</b>

As at 30 June 2022

\$m		(a)
		RWA
	<b>Products excluding Options</b>	
1	Interest Rate Risk (General and Specific)	3,267
2	Equity Risk (General and Specific)	23
3	Foreign Exchange Risk	5,205
4	Commodity Risk	418
	<b>Options</b>	
5	Simplified Approach	
6	Delta-Plus Method	
7	Scenario Approach	1,153
8	Securitisation	
9	<b>Total</b>	<b>10,066</b>

### **13.3 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.

### **13.4 Comparison of VaR Estimates with Gains or Losses**

Please refer to UOB Annual Report 2022, Risk Management section - Market Risk.

## **14 Operational Risk**

Please refer to UOB Annual Report 2022, Risk Management section - Operational Risk.

## **15 Interest Rate Risk in the Banking Book**

Interest rate risk is the impact to earnings and economic value of the Group due to fluctuations in interest rates. Interest rate exposure arises from differences in the maturity and repricing dates of assets, liabilities and off-balance sheet items. These mismatches are actively monitored and managed as part of the overall interest rate risk management process which is conducted in accordance with the Group's policies as approved by the ALCO.

The Group's interest rate risk sensitivity is measured as changes in economic value of equity ("EVE") or net interest income ("NII") based on Basel IRRBB requirements. At 100 and 200 basis points parallel interest rate shocks, worst case results were negative \$845 million and \$1,998 million (FY2021: negative \$1,051 million and \$2,008 million) respectively, driven mainly by the Group's SGD position.

EVE is the present value of assets less present value of liabilities of the Group. NII is the simulated change in the Group's net interest income. The repricing profile of loans is generally based on the earliest possible repricing dates, taking into account the notice period to be served to the customers. Interest rate flooring effects according to revised MAS637 requirements are taken into consideration. Loan prepayment and time deposit early withdrawal rates are estimated based on past statistics and trends where possible and material. Behavioural assumptions based on historical trends are applied where appropriate. The average repricing maturity of core non-maturity deposits is determined through empirical models taking into account asset duration. Risk-free zero coupon curves are used for EVE discounting. Currencies are aggregated by scenarios. There may be some differences in the assumptions across geographical locations due to variation in local conditions.

Please refer to UOB Annual Report 2022, Risk Management section - Interest Rate Risk in the Banking Book for more information.

## 16 Liquidity Coverage Ratio Disclosures

### 16.1 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 147% and 255% respectively were comfortably above the regulatory requirements of 100%. Compared to 3Q2022, increase in All Currency LCR was mainly due to higher HQLA. Increase in SGD Currency LCR was mainly due to increase in HQLA, partially offset by increase in outflows related to derivative exposure. 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 on 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.

## 16.2 Average Group All Currency LCR

For the quarter ended 31 December 2022

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

\$m		Total Unweighted Value Average	Total Weighted Value Average
<b>HIGH-QUALITY LIQUID ASSETS</b>			
1	Total high-quality liquid assets (HQLA)		94,681
<b>CASH OUTFLOWS</b>			
2	Retail deposits and deposits from small business customers, of which:	153,241	13,135
3	Stable deposits	39,771	1,989
4	Less stable deposits	113,471	11,146
5	Unsecured wholesale funding, of which:	140,216	70,614
6	Operational deposits (all counterparties) and deposits in networks of cooperative banks	35,342	8,523
7	Non-operational deposits (all counterparties)	99,357	56,574
8	Unsecured debt	5,517	5,517
9	Secured wholesale funding		373
10	Additional requirements, of which:	53,788	15,498
11	Outflows related to derivative exposures and other collateral requirements	9,620	8,932
12	Outflows related to loss of funding on debt products	6	6
13	Credit and liquidity facilities	44,162	6,560
14	Other contractual funding obligations	5,297	5,297
15	Other contingent funding obligations	13,024	866
16	<b>TOTAL CASH OUTFLOWS</b>		105,783
<b>CASH INFLOWS</b>			
17	Secured lending (eg reverse repos)	8,277	2,435
18	Inflows from fully performing exposures	45,826	28,412
19	Other cash inflows	10,710	10,222
20	<b>TOTAL CASH INFLOWS</b>	64,814	41,070
		Total Adjusted Value	
21	<b>TOTAL HQLA</b>		94,681
22	<b>TOTAL NET CASH OUTFLOWS</b>		64,713
23	<b>LIQUIDITY COVERAGE RATIO (%)</b>		147



## 16.3 Average Group SGD Currency LCR

For the quarter ended 31 December 2022

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

\$m		Total Unweighted Value Average	Total Weighted Value Average
<b>HIGH-QUALITY LIQUID ASSETS</b>			
1	Total high-quality liquid assets (HQLA)		51,286
<b>CASH OUTFLOWS</b>			
2	Retail deposits and deposits from small business customers, of which:	109,620	9,116
3	Stable deposits	36,922	1,846
4	Less stable deposits	72,699	7,270
5	Unsecured wholesale funding, of which:	33,754	13,602
6	Operational deposits (all counterparties) and deposits in networks of cooperative banks	12,487	2,923
7	Non-operational deposits (all counterparties)	21,212	10,624
8	Unsecured debt	56	56
9	Secured wholesale funding		-
10	Additional requirements, of which:	28,246	13,255
11	Outflows related to derivative exposures and other collateral requirements	12,120	11,503
12	Outflows related to loss of funding on debt products	-	-
13	Credit and liquidity facilities	16,126	1,752
14	Other contractual funding obligations	1,546	1,546
15	Other contingent funding obligations	114	86
16	<b>TOTAL CASH OUTFLOWS</b>		37,606
<b>CASH INFLOWS</b>			
17	Secured lending (eg reverse repos)	707	-
18	Inflows from fully performing exposures	11,322	6,027
19	Other cash inflows	11,598	11,343
20	<b>TOTAL CASH INFLOWS</b>	23,626	17,370
			Total Adjusted Value
21	<b>TOTAL HQLA</b>		51,286
22	<b>TOTAL NET CASH OUTFLOWS</b>		20,236
23	<b>LIQUIDITY COVERAGE RATIO (%)</b>		255

## **17 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 30 September 2022 and 31 December 2022 were 114% and 116% respectively, above the regulatory requirement of 100%. Increase in NSFR in the 3rd quarter was largely due to increase in retail deposits and other wholesale funding partially offset by increase in performing loans and securities. Increase in NSFR in the 4th quarter was largely due to increase in retail deposits partially offset by decrease in other wholesale funding. 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.

Pillar 3 Disclosure Report

17 Net Stable Funding Ratio Disclosures (cont'd)

As at 31 December 2022

\$m	ASF Item	Unweighted value by residual maturity				Weighted value
		No maturity	< 6 months	6 months to < 1 yr	≥ 1 yr	
1	Capital:	41,344	-	995	8,061	50,339
2	Regulatory capital	41,344	-	995	6,652	48,930
3	Other capital instruments	-	-	-	1,409	1,409
4	Retail deposits and deposits from small business customers:	94,908	74,985	8,727	932	163,987
5	Stable deposits	27,413	18,399	123	166	43,804
6	Less stable deposits	67,496	56,586	8,603	765	120,182
7	Wholesale funding:	86,049	131,393	10,867	17,168	94,290
8	Operational deposits	33,966	-	-	-	16,983
9	Other wholesale funding	52,083	131,393	10,867	17,168	77,307
10	Liabilities with matching interdependent assets	-	173	178	745	-
11	Other liabilities:	9,890		13,942		1,480
12	NSFR derivative liabilities			12,000		
13	All other liabilities and equity not included in the above categories	9,890	67	1,423	452	1,480
14	<b>Total ASF</b>					310,095
<b>RSF Item</b>						
15	Total NSFR high-quality liquid assets (HQLA)					5,158
16	Deposits held at other financial institutions for operational purposes	-	-	-	-	-
17	Performing loans and securities:	19,160	155,163	31,859	196,763	238,448
18	Performing loans to financial institutions secured by Level 1 HQLA	-	4,912	172	4	581
19	Performing loans to financial institutions secured by non-Level 1 HQLA and unsecured performing loans to financial institutions	4,987	22,467	4,755	5,343	12,114
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:	12,693	117,796	21,582	104,610	151,110
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 to 7.3.26 of MAS Notice 637	-	255	153	4,608	3,210
22	Performing residential mortgages, of which:	-	1,523	1,484	71,813	54,119
23	With a risk weight of less than or equal to 35% under paragraph 7.3.29 of MAS Notice 637	-	1,372	1,338	58,621	42,752
24	Securities that are not in default and do not qualify as HQLA, including exchange-traded equities	1,479	8,466	3,866	14,993	20,525
25	Assets with matching interdependent liabilities	-	173	178	745	-
26	Other assets:	21,036		26,368		21,199
27	Physical traded commodities, including gold	4,349				3,697
28	Assets posted as initial margin for derivative contracts and contributions to default funds of CCPs			120		102
29	NSFR derivative assets			11,976		-
30	NSFR derivative liabilities before deduction of variation margin posted			14,272		714
31	All other assets not included in the above categories	16,687	-	-	-	16,687
32	Off-balance sheet items			221,575		2,136
33	<b>Total RSF</b>					266,941
34	<b>Net Stable Funding Ratio (%)</b>					116

Pillar 3 Disclosure Report

17 Net Stable Funding Ratio Disclosures (cont'd)

As at 30 September 2022

\$m	ASF Item	Unweighted value by residual maturity				Weighted value
		No maturity	< 6 months	6 months to < 1 yr	≥ 1 yr	
1	Capital:	40,302	-	122	8,879	49,243
2	Regulatory capital	40,302	-	122	7,581	47,945
3	Other capital instruments	-	-	-	1,298	1,298
4	Retail deposits and deposits from small business customers:	101,400	60,917	6,137	966	154,780
5	Stable deposits	29,038	14,915	129	124	42,002
6	Less stable deposits	72,362	46,002	6,008	842	112,778
7	Wholesale funding:	90,803	137,312	13,728	17,811	99,445
8	Operational deposits	34,367	-	-	-	17,183
9	Other wholesale funding	56,436	137,312	13,728	17,811	82,262
10	Liabilities with matching interdependent assets	-	163	159	762	-
11	Other liabilities:	8,122		14,687		1,010
12	NSFR derivative liabilities			13,764		
13	All other liabilities and equity not included in the above categories	8,122	26	465	432	1,010
14	<b>Total ASF</b>					304,477
<b>RSF Item</b>						
15	Total NSFR high-quality liquid assets (HQLA)					5,324
16	Deposits held at other financial institutions for operational purposes	-	-	-	-	-
17	Performing loans and securities:	11,621	166,161	26,897	199,602	238,433
18	Performing loans to financial institutions secured by Level 1 HQLA	-	6,058	332	5	777
19	Performing loans to financial institutions secured by non-Level 1 HQLA and unsecured performing loans to financial institutions	2,412	23,480	3,081	6,483	12,149
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:	7,695	126,109	18,323	109,716	153,350
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 to 7.3.26 of MAS Notice 637	-	267	159	4,598	3,212
22	Performing residential mortgages, of which:	-	1,607	1,574	69,048	52,000
23	With a risk weight of less than or equal to 35% under paragraph 7.3.29 of MAS Notice 637	-	1,444	1,420	57,667	42,162
24	Securities that are not in default and do not qualify as HQLA, including exchange-traded equities	1,514	8,906	3,587	14,350	20,157
25	Assets with matching interdependent liabilities	-	163	159	762	-
26	Other assets:	19,161		32,929		21,906
27	Physical traded commodities, including gold	4,004				3,403
28	Assets posted as initial margin for derivative contracts and contributions to default funds of CCPs			254		215
29	NSFR derivative assets			16,064		2,300
30	NSFR derivative liabilities before deduction of variation margin posted			16,612		831
31	All other assets not included in the above categories	15,157	-	-	-	15,157
32	Off-balance sheet items			216,789		2,296
33	<b>Total RSF</b>					267,959
34	<b>Net Stable Funding Ratio (%)</b>					114

**18 Remuneration**

Please refer to UOB Annual Report 2022, Remuneration section.

## 19 Abbreviations

The following abbreviated terms are used throughout this document.

<b>A</b>		<b>E</b>	
A-IRBA	Advanced Internal Ratings-Based Approach	EAD	Exposure at Default
ALCO	Asset and Liability Committee	EL	Expected Loss
AMA	Advanced Measurement Approach	EPE	Expected Positive Exposure
AT1	Additional Tier 1	EQ	Equity Exposures
ASF	Available Stable Funding	ES	Expected Shortfall
<b>B</b>		<b>F</b>	
BIA	Basic Indicator Approach	FC(SA)	Financial Collateral Simple Approach
<b>C</b>		FC(CA)	Financial Collateral Comprehensive Approach
CAR	Capital Adequacy Ratio	F-IRBA	Foundation Internal Ratings-Based Approach
CCF	Credit Conversion Factor	<b>G</b>	
CCP	Central Counterparty	G-SIB	Global Systemically Important Bank
CCR	Counterparty Credit Risk	<b>H</b>	
CCyB	Countercyclical Capital Buffer	HVCRE	High-Volatility Commercial Real Estate
CET1	Common Equity Tier 1	<b>I</b>	
CF	Commodities Finance	IAA	Internal Assessment Approach
CR	Credit Risk	IAM	Internal Assessment Method
CRE	Commercial Real Estate	IMA	Internal Models Approach
CRM	Credit Risk Mitigation	IMM	Internal Models Method
CVA	Credit Valuation Adjustment	IPRE	Income-Producing Real Estate
<b>D</b>		IRBA	Internal Ratings-Based Approach
D-SIB	Domestic Systemically Important Bank		

## Pillar 3 Disclosure Report

### 19 ABBREVIATIONS (cont'd)

<b>L</b>		<b>S</b>	
LGD	Loss Given Default	S&P	Standard & Poor's
<b>M</b>		SA	Standardised Approach
MDB	Multilateral Development Bank	SA(CCR)	Standardised Approach for Counterparty Credit Risk
MR	Market Risk	SA(CR)	Standardised Approach to Credit Risk
<b>N</b>		SA(EQ)	Standardised Approach for Equity Exposures
NBFI	Non Bank Financial Institutions	SA(MR)	Standardised Approach to Market Risk
NCI	Non-Controlling Interests	SA(OR)	Standardised Approach to Operational Risk
<b>O</b>		SEC-IRBA	Securitisation Internal Ratings-Based Approach
OF	Object Finance	SEC-ERBA	Securitisation External Ratings-Based Approach
<b>P</b>		SEC-SA	Securitisation Standardised Approach
PD	Probability of Default	SF	Supervisory Formula
PE/VC	Private Equity/Venture Capital	SFRS	Singapore Financial Reporting Standards
PF	Project Finance	SFTs	Securities Financing Transactions
PSE	Public Sector Entity	SME	Small-and Medium-sized Enterprises
<b>Q</b>		<b>T</b>	
QRRE	Qualifying Revolving Retail Exposures	T1	Tier 1
<b>R</b>		T2	Tier 2
RBM	Ratings-Based Method	TEP	Total Eligible Provisions
RSF	Required Stable Funding	TLAC	Total Loss-Absorbing Capacity
RW	Risk Weight	<b>V</b>	
RWA	Risk-Weighted Assets	VaR	Value-at-Risk