

Bangkok Bank Public Company Limited

Basel III - Pillar 3 Disclosures

As at December 31, 2018



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Introduction

Bangkok Bank ("the Bank") recognizes that effective risk management and good corporate governance are essential to the stability and sustainable credibility of the Bank and its subsidiaries in the Group ("the Group"). The Bank therefore places great emphasis on continually improving risk management processes and on having a sufficient level of capital to support business operations, at both the Bank level and the Group level.

The use of market discipline is deemed to be an important driver in the enhancement of the risk management system. Therefore disclosures of information regarding capital, risk exposures, risk assessment processes, and capital adequacy are provided at both the Bank level (Solo Basis) and the Group level (Full Consolidation Basis). The disclosures are in accordance with the disclosure requirements of the Bank of Thailand ("BOT").

The complete disclosure report of information regarding capital management in accordance with Basel III - Pillar 3 is provided, of which the quantitative information regarding capital structure, capital adequacy, market risk assessment and Liquidity Coverage Ratio (LCR) is disclosed semi-annually. As for the disclosure of qualitative information, it is updated annually or when there is a material change in the risk management policy. Disclosures will be made for information that the Bank considers to be of material nature. The Pillar 3 disclosure reports will be made available on the Bank's website under the section "Investor Relations" within four months after the end of relevant period.

Scope of Application

The disclosure report covers information at both the Bank level (Solo Basis) and the Group level (Full Consolidation Basis).

There are 10 companies in the Group consisting of;

- Bangkok Bank Public Company Limited engaged in commercial banking (as the parent company)
- Bangkok Bank Berhad engaged in commercial banking
- Bangkok Bank (China) Company Limited engaged in commercial banking
- BBL Asset Management Company Limited engaged in fund management
- Bangkok Capital Asset Management Company Limited engaged in fund management
- Bualuang Securities Public Company Limited engaged in securities business
- Sinsuptawee Asset Management Company Limited engaged in asset management
- BBL Nominees (Tempatan) Sdn. Bhd engaged in supporting business
- BBL (Cayman) Limited engaged in finance business
- Bualuang Ventures Limited engaged in venture capital

The scope of consolidation for accounting and regulatory purposes has no difference (See Table 6).



1. Capital Structure and Capital Adequacy

1.1 Capital Structure

The Bank's capital structure according to the regulations on capital requirements under the principles of BOT's Basel III, is revised into Common Equity Tier 1 capital, Additional Tier 1 capital and Tier 2 capital.

- Common Equity Tier 1 capital comprises
 - 1) Paid-up share capital
 - 2) Premium (discount) on common share
 - 3) Legal reserves
 - 4) Reserves appropriated from net profit
 - 5) Retained earnings after appropriations
 - 6) Non-controlling interest classified as Common Equity Tier 1
 - 7) Other reserves
 - 8) Deductions such as intangible assets
- Additional Tier 1 capital consists of non-controlling interest classified as Tier 1 Capital.
- Tier 2 capital consists of
 - 1) Long-term subordinated debt instrument subordinated to depositors and general creditors
 - 2) General provisions for normal assets not exceeding 1.25 percent of credit risk-weighted assets
 - 3) Non-controlling interest classified as Tier 2

In adopting Basel III, BOT relaxes for new items by allowing to phase in the addition into or deduction from the capital at 20 percent p.a. starting from 2014 to 2018. As for subordinated debt instruments classified as Tier 2 of which the criteria do not meet qualifications under Basel III regarding capability for loss absorbency of the Bank at the point of non-viability i.e. no conversion feature to common shares or written off upon the authority's decision to make financial support to the Bank, BOT requires phasing out capital at 10 percent p.a. starting from 2013 to 2022.

Table 1: Capital Structure

Conital	Tì	ne Group	Т	The Bank	
Capital	31 December 2018	31 December 2018 30 June 2018		30 June 2018	
Common Equity Tier 1 Capital	390,309	376,348	374,633	361,544	
Tier 1 Capital	390,369	376,407	374,633	361,544	
Total Capital	426,563	412,875	409,945	397,219	



1.2 Capital Adequacy

The objective of the Bank's and the Group's capital management policy is to maintain an adequate level of capital to support growth strategies within an acceptable risk framework, as well as to meet regulatory requirements and market expectations.

In compliance with the BOT's supervisory review process guidelines, the Bank's capital management process assesses the overall risk and capital adequacy under the Internal Capital Adequacy Assessment Process (ICAAP). The process covers projected assessments of all substantial risks to the Bank's operations, so that the Bank can effectively manage its risks and have a sound capital base for business operations under normal and stress scenarios. Therefore, the capital management process covers the Group level.

The Standardised Approach (SA) is used to measure credit risk, market risk, and operational risk for computing regulatory capital requirements under BOT's Basel III at both the Bank level and the Group level.

Under the principles of Basel III, the BOT requires that commercial banks registered in Thailand and their groups must maintain three minimum capital adequacy ratios: a Common Equity Tier 1 capital adequacy ratio of no less than 4.50 percent, a Tier 1 capital adequacy ratio of no less than 6.00 percent, and a total capital adequacy ratio of no less than 8.50 percent. The aforementioned minimum ratios have yet to include the Capital Conservation Buffer which the BOT is phasing in with an additional capital ratio of more than 0.625 percent p.a. that began on January 1, 2016 rising in increments to more than 2.50 percent on January 1, 2019. Moreover, the BOT requires the Bank, which is classified as a D-SIB, to have additional capital to meet the Higher Loss Absorbency (HLA) requirement by 1.00 percent, beginning with a 0.50 percent increase from January 1, 2019 followed by a 1.00 percent increase from January 1, 2020 onwards. Consequently, a Common Equity Tier 1 capital adequacy ratio of more than 6.375 percent, a Tier 1 capital adequacy ratio of more than 7.875 percent, and a total capital adequacy ratio of more than 10.375 percent are required to be maintained from January 1, 2018. Effective from January 1, 2019, Common Equity Tier 1 ratio, Tier 1 ratio and total capital ratio must be more than 7.50, 9.00 and 11.50 percent, respectively, of the total risk-weighted assets. And from January 1, 2020, Common Equity Tier 1 ratio, Tier 1 ratio and total capital ratio must be more than 8.00, 9.50 and 12.00 percent, respectively, of the total risk-weighted assets.

Moreover, BOT may require banks to maintain additional capital for Countercyclical Buffer at maximum 2.50 percent. As at December 31, 2018, the Bank and the Group has adequate capital for such buffers.

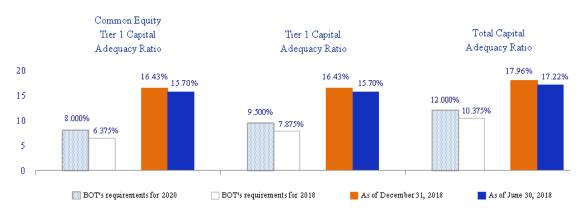
Table 2: Capital Adequacy

C4-1	The G	roup	The Bank	
Capital	31 December 2018	30 June 2018	30 June 2018 31 December 2018	
Common Equity Tier 1 Capital	16.43%	15.70%	16.24%	15.60%
Tier 1 Capital	16.43%	15.70%	16.24%	15.60%
Total Capital	17.96%	17.22%	17.78%	17.14%



Capital Adequacy Ratio

Group Level (Full Consolidation Basis)



Bank Level (Solo Basis)



Remark: The BOT requires commercial banks to maintain an additional Capital Conservation Buffer. The buffer will gradually increase by more than 0.625 percent each year from January 1, 2016 until it reaches more than 2.5 percent in January 1, 2019. And the BOT also requires commercial banks to have additional capital requirement for Higher Loss Absorbency (HLA) requirement by increasing the Common Equity Tier 1 ratio at 1 percent, beginning at 0.50 percent from January 1, 2019 and increasing to be 1.00 percent from January 1, 2020 onwards.



Table 3: Component of Capital

Component of Conital	The	The Group		The Bank	
Component of Capital	31 December 2018	30 June 2018	31 December 2018	30 June 2018	
Tier 1 Capital	390,369	376,407	374,633	361,544	
Common Equity Tier 1 Capital	390,309	376,348	374,633	361,544	
Paid-up share capital	19,088	19,088	19,088	19,088	
Premiums on share capital	56,346	56,346	56,346	56,346	
Legal reserves	23,000	22,500	23,000	22,500	
Reserves appropriated from net profit	101,500	96,500	101,500	96,500	
Net profit after appropriations	152,107	142,656	132,089	125,430	
Other comprehensive income	42,039	43,283	45,361	44,739	
Deductions from Common Equity Tier 1 Capital	(3,771)	(4,025)	(2,751)	(3,059)	
Additional Tier 1 Capital	60	59	-	-	
Non-controlling interest	60	59	-	-	
Tier 2 Capital	36,194	36,468	35,312	35,675	
¹ Subordinated debenture *	9,535	9,535	9,535	9,535	
General provision	26,644	26,918	25,777	26,140	
Non-controlling interest	15	15	-	-	
Total Capital	426,563	412,875	409,945	397,219	

*Component of capital subject to phasing in (out)

Unit : Million Baht

The Bank

As at December 31, 2018	Classified As Capital	Outstanding Balance for Phasing In (Out)	Classified As Capital	Outstanding Balance for Phasing In (Out)
Phasing in (out) at 10 percent p.a. beginning 2013 - 2022				
¹ Subordinated debenture	9,535	(9,535)	9,535	(9,535)
*Component of capital subject to phasing in (out)				Unit : Million Baht
	The	Group	The E	ank
As at 30 June 2018	Classified As Capital	Outstanding Balance for Phasing In (Out)	Classified As Capital	Outstanding Balance for Phasing In (Out)
Phasing in (out) at 10 percent p.a. beginning 2013 - 2022				
Subordinated debenture	9,535	(9,535)	9,535	(9,535)

The Group



Table 4: Minimum Capital Requirements for Each Type of Risks

T	The	The Group		The Bank	
Type of Risks	31 December 2018	30 June 2018	31 December 2018	30 June 2018	
Minimum capital requirements for credit risk	181,182	183,048	176,342	177,757	
Performing	178,997	180,618	174,177	175,351	
- Sovereigns and central banks, Multilateral development banks					
(MDBs 1), and Provincial organizations/ Government entities/ State					
enterprises (PSEs ²) which have the same risk weight as Sovereigns	2,782	3,068	2,776	3,057	
- Financial institutions, Securities firms, and Provincial organizations/					
Government entities/ State enterprises (PSEs) which have the same					
risk weight as Financial Institutions	7,731	7,238	7,148	6,468	
- Corporates, and Provincial organizations/ Government entities/ State					
enterprises (PSEs) which have the same risk weight as Corporates	132,820	135,425	126,520	129,257	
- Retail	13,011	12,822	12,914	12,698	
- Residential mortgage loans	7,905	7,555	7,905	7,555	
- Other assets	14,748	14,510	16,914	16,316	
Non-Performing	2,185	2,430	2,165	2,406	
Minimum capital requirements for market risk	4,687	5,055	4,325	4,557	
- Interest Rate Risk	3,143	3,717	3,129	3,677	
- Equity Price Risk	360	476	-	-	
- Foreign Exchange Risk	1,184	862	1,196	880	
- Commodity Price Risk		-		-	
Minimum capital requirements for operational risk	16,025	15,664	15,356	14,631	
Total minimum capital requirements	201,894	203,767	196,023	196,945	

Remark

¹ Multilateral Development Banks

² Non-central Government Public Sector Entities



Table 5: Main Features of Regulatory Capital Instruments

	Ordinary share	Subordinated debt 1
Issuer	Bangkok Bank Public Company Limited	Bangkok Bank Public Company
		Limited Hong Kong Branch
ISIN Code	TH0001010006	USY0606WBQ25 (Reg S)
		US059895AH54 (144A)
Regulatory treatment		
Instrument type	Common Equity Tier 1	Tier 2 capital
Qualified Basel III	Qualified	Non-qualified
Non-qualified Basel III features	N/A	No loss absorption features
Phased-out or full-amount	Full-amount	Phased-out at 10% p.a.
Eligible at solo/group level	Group & solo	Group & solo
Amount recognized in regulatory capital (Net of phasing out) (Unit:	10,000	0.525
THB Million)	19,088	9,535
Par value	10 Baht	1,000 U.S. Dollar
Accounting classification	Shareholder's equity	Amortized-cost debt
Original date of issuance	Multiple	January 28, 1999
Perpetual or dated	Perpetual	Dated
Original maturity date	No maturity	March 15, 2029
Issuer's authority to call subject to prior supervisory approval	No	No
Optional call date, contingent call date and redemption amount		The Bank has the option to redeem
		the subordinated notes if there are
		changes in or amendments to the tax
		laws or regulations of Thailand
		and/or Hong Kong resulted that the
	N/A	Bank has additional amount to pay
		in respect to the withholding tax.
		The redemption amount of the notes
		shall be equal to total outstanding
		principal plus accrued interest.
Subsequent call dates, if applicable	N/A	Any date after original date of
		issuance



Table 5: Main Features of Regulatory Capital Instruments (Continued)

	Ordinary share	Subordinated debt 1
Coupons / dividends		
Fixed or floating dividend/coupon	Discretionary dividend amount	Fixed rate
Coupon rate and any related index	Distributable profit that has been	0.025 % n.o.
	declared as dividend	9.025 % p.a.
Existence of a dividend stopper	No	No
Fully discretionary, partially discretionary or mandatory		
	Fully discretionary	Mandatory by BOT
Existence of step up or other incentive to redeem	No	No
Non-cumulative or cumulative	Non-cumulative	Non-cumulative
Convertible or non-convertible	Non-convertible	Non-convertible
Write-down feature	No	No
Position in subordination hierarchy in liquidation	The ordinary shareholders shall of the	The subordinated noteholders shall
	return of capital in a winding-up at the	of the return of capital in a winding-
	last position.	up after preferred shareholders,
		depositors and general creditors.



Table 6: Reconciliation of Regulatory Capital and Financial Statement under Consolidated Supervision

The Group Capital

Unit: Million Baht

	31 December 2018	30 June 2018	References Based on
Item			Balance Sheet under
Avail	Amount	Amount	the Consolidated
			Supervision
Tier 1 Capital			
Common Equity Tier 1 Capital			
Paid-up Common Shares after Deducting Treasury Shares	19,088	19,088	A
Premiums on Share Capital	56,346	56,346	В
Legal Reserves	23,000	22,500	C
Reserves Appropriated from Net Profit	101,500	96,500	D
Net Profit after Appropriation	152,107	142,656	E
Other Comprehensive Income			
Revaluation Surplus on Land Building and Condominium Appraisal	22,567	23,037	F
Revaluation Surplus (Deficit) of Available for Sale Equity and Debt Securities	29,856	27,543	G
Foreign Currency Translation Differences	(10,384)	(7,297)	Н
Other Owner Changes Items	-	-	
Total CET1 Capital before Regulatory Adjustments and Deduction	394,080	380,373	_
Regulatory Adjustments on CET1	-	-	
Regulatory Deduction on CET1			_
Intangible Assets (Software Computer License)	(1,080)	(999)	I
Deferred Tax Assets	(2,691)	(3,026)	J
Total Regulatory Deduction on CET1	(3,771)	(4,025)	
Total CET1	390,309	376,348	
Additional Tier 1 Capital			
Non-controlling Interest	60	59	K
Total Tier 1 Capital	390,369	376,407	_
Tier 2 Capital			_
Proceeds from Issuing Subordinated Debt Securities	9,535	9,535	L
General Provision	26,644	26,918	M
Non-controlling Interest	15	15	N
Total Tier 2 Capital	36,194	36,468	_
Total Regulatory Capital	426,563	412,875	_



Total Liabilities

Table 6: Reconciliation of Regulatory Capital and Financial Statement under Consolidated Supervision (Continued)

Matematical Ma	Balance Sheet under the Consolidated Supervision ¹			Unit : Million Baht
Asserts Cross of Cashs 55,924 Asserts Cash 420,700 494,489 55,924 Interbank and Money Market Items, net 450,000 494,489 67,728 Investments, net 55,6788 38,778 78,778 Investments in Subsidiaries and Associates, net 1,608 1,609 78,778 Lours to Customers and Accrued Interest Receivables, net 2,083,703 2,066,136 79,779 Accrued Interest Receivables 5,624 5,179 79,713,15 74,715 Accrued Interest Receivables and Accrued Interest Receivables 1,629 2,071,315 74,715 Accrued Interest Receivables 5,624 5,179 74,715	Manage	31 December 2018	30 June 2018	References for the
Cash 62,394 55,924 Interbank and Money Market Items, net 450,700 494,489 Derivative Assets 28,650 30,647 Investments, net 1,608 556,788 Investments in Subsidiaries and Associates, net 1,608 1,409 Loans to Customers 2,083,703 2,066,136 Accrued Interest Receivables, net 5,624 5,179 Total Loans to Customers and Accrued Interest Receivables 2,083,703 2,066,136 Accrued Interest Receivables 5,624 5,179 Total Loans to Customers and Accrued Interest Receivables 2,089,327 2,071,315 Less Deferred Revenue (447,588) (141,226) Qualified as Capital (26,644) (26,918) M Less Revaluation Allowance for Doubful Accounts 1,158 1,530 Total Loans to Customers and Accrued Interest Receivables, net 1,935,781 1,923,602 Temperatise for Sale, net 1,060 1,0357 1,752,602 Other Intangible Assets, net 1,080 999 1 Deferred Tax Assets 4,091 <t< th=""><th>items</th><th>Amount</th><th>Amount</th><th>Group Capital Item</th></t<>	items	Amount	Amount	Group Capital Item
Interhank and Money Market Items, net	<u>Assets</u>			
Derivative Assets	Cash	62,394	55,924	
Investments, net 1,608 1,409 1	Interbank and Money Market Items, net	450,700	494,489	
Louis to Customers and Associates, net 1,608 1,409	Derivative Assets	28,650	30,647	
Loans to Customers and Accrued Interest Receivables, net Loans to Customers 2,083,703 2,066,136 Accrued Interest Receivables 5,624 5,179 Total Loans to Customers and Accrued Interest Receivables 2,089,327 2,071,315 Less Deferred Revenue (543) (649) Less Allowance for Doubtful Accounts (147,588) (141,226) Qualified as Capital (26,644) (26,918) Mackas Revaluation Allowance for Debt Restructuring (5,415) (5,938) Total Loans to Customers and Accrued Interest Receivables, net 1,385,781 1,923,502 Customers Liabilities under Acceptances 1,578 1,530 Properties for Sale, net 10,604 10,357 Premises and Equipment, net 42,567 43,255 Other Intangible Assets, net 1,080 999 Deduction from Capital (1,080) (999) 1 Deferred Tax Assets 4,091 3,747 Deduction from Capital (2,691) (3,026) J Securities Business Receivables-Cash Accounts 3,550 2,726 Collateral Placed with Financial Counterparties 3,324 4,115 Other Assets, net 14,035 14,852 Total Assets 14,035 14,852 Total Assets 13,686 20,4367 Liabilities 2,236,470 2,349,857 Interbank and Money Market Items 2,238 32,481 Deposits 2,236,470 2,349,857 Interbank and Money Market Items 11,6348 95,766 Debt Instruments that are Qualified as Capital 9,535 9,535 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	Investments, net	556,788	587,788	
Loans to Customers	Investments in Subsidiaries and Associates, net	1,608	1,409	
Accraced Interest Receivables 5,624 5,179 Total Loans to Customers and Accrued Interest Receivables 2,089,327 2,071,315 Less Deferred Revenue (543) (649) Less Allowance for Doubtful Accounts (147,588) (141,226) Qualified as Capital (26,644) (26,918) M Less Revaluation Allowance for Debt Restructuring (5415) (5,938) Total Loans to Customers and Accrued Interest Receivables, net 1,935,781 1,923,502 Customers' Liabilities under Acceptances 1,578 1,530 Properties for Sale, net 10,604 10,357 Premises and Equipment, net 42,567 43,255 Obduction from Capital (1,080) 999 1 Deduction from Capital (2,691) (3,026) J Securities Business Receivables-Cash Accounts 3,550 2,726 J Securities Business Receivables-Cash Accounts 3,550 2,726 J Collateral Placed with Financial Counterparties 3,16,759 3,175,340 J Ibabilities 2,326,470 2,349,857	Loans to Customers and Accrued Interest Receivables, net			
	Loans to Customers	2,083,703	2,066,136	
Less Deferred Revenue (543) (649) Less Allowance for Doubtful Accounts (147,588) (141,226) Qualified as Capital (26,644) (26,918) M Less Revaluation Allowance for Dobt Restructuring (5,415) (5,938) Total Loans to Customers and Accrued Interest Receivables, net 1,935,781 1,923,502 Customers' Liabilities under Acceptances 1,578 1,530 Properties for Sale, net 10,604 10,357 Premises and Equipment, net 42,567 43,255 Other Intangible Assets, net 1,080 999 Deduction from Capital (1,080) (999) 1 Deferred Tax Assets 4,091 3,747 1 Deduction from Capital (2,691) (3,026) J Securities Business Receivables-Cash Accounts 3,350 2,726 Collateral Placed with Financial Counterparties 3,14,735 4,115 Other Assets, net 14,035 14,852 Total Assets 2,326,470 2,349,857 Interbank and Money Market Items 136,862 204,36	Accrued Interest Receivables	5,624	5,179	
Less Allowance for Doubtful Accounts (147,588) (141,226) Qualified as Capital (26,644) (26,918) M Less Revaluation Allowance for Dobt Restructuring (5,415) (5,938) Total Loans to Customers and Accrued Interest Receivables, net 1,935,781 1,923,592 Customers' Liabilities under Acceptances 1,578 1,530 Properties for Sale, net 10,604 10,357 Premises and Equipment, net 42,567 43,255 Other Intangible Assets, net 1,080 999 Deduction from Capital (1,080) (999) 1 Deferred Tax Assets 4,091 3,747 3,747 3,747 3,747 3,747 3,747 3,747 3,747 3,747 3,747 3,747 3,747 3,747 3,747 3,747 3,747 3,747 4,115 3,14,852 3,14,852 3,14,852 3,14,852 3,14,852 3,14,852 3,14,852 3,14,852 3,14,852 3,14,852 3,14,852 3,14,852 3,14,852 3,14,852 3,14,852 3,14,852 3,14,852 </td <td>Total Loans to Customers and Accrued Interest Receivables</td> <td>2,089,327</td> <td>2,071,315</td> <td></td>	Total Loans to Customers and Accrued Interest Receivables	2,089,327	2,071,315	
Qualified as Capital (26,644) (26,918) M Less Revaluation Allowance for Debt Restructuring (5,415) (5,938) Total Loans to Customers and Accrued Interest Receivables, net 1,935,781 1,933,602 Customers Liabilities under Acceptances 1,578 1,530 Properties for Sale, net 10,604 10,357 Premises and Equipment, net 42,567 43,255 Other Intangible Assets, net 1,080 999 Deduction from Capital (1,080) (999) 1 Deduction from Capital (2,691) (3,026) J Securities Business Receivables-Cash Accounts 3,550 2,726 Collateral Placed with Financial Counterparties 3,324 4,115 Other Assets, net 14,035 14,852 Total Assets 3,116,750 3,175,340 Liabilities 2,326,470 2,349,857 Interbank and Money Market Items 136,862 204,367 Liabilities Payable on Demand 7,223 7,152 Debt Instruments that are Qualified as Capital 9,335 1,330 </td <td>Less Deferred Revenue</td> <td>(543)</td> <td>(649)</td> <td></td>	Less Deferred Revenue	(543)	(649)	
Less Revaluation Allowance for Debt Restructuring (5,415) (5,938) Total Loans to Customers and Accrued Interest Receivables, net 1,935,781 1,232,502 Customers' Liabilities under Acceptances 1,578 1,530 Properties for Sale, net 10,604 10,357 Premises and Equipment, net 42,567 43,255 Other Intangible Assets, net 1,080 999 Deduction from Capital (1,080) (999) 1 Deduction from Capital (2,691) (3,026) J Securities Business Receivables-Cash Accounts 3,550 2,726 Collateral Placed with Financial Counterparties 3,324 4,115 Other Assets, net 14,035 14,852 Total Assets 3,116,750 3,175,340 Liabilities 2,326,470 2,349,857 Interbank and Money Market Items 136,862 204,367 Liabilities Payable on Demand 7,223 7,152 Derivative Liabilities 2,338 32,481 Debt Instruments that are Qualified as Capital 9,535 L	Less Allowance for Doubtful Accounts	(147,588)	(141,226)	
Total Loans to Customers and Accrued Interest Receivables, net	Qualified as Capital	(26,644)	(26,918)	M
Customers' Liabilities under Acceptances 1,578 1,530 Properties for Sale, net 10,604 10,357 Premises and Equipment, net 42,567 43,255 Other Intangible Assets, net 1,080 999 Deduction from Capital (1,080) (999) 1 Deferred Tax Assets 4,091 3,747 1 Deduction from Capital (2,691) (3,026) J Securities Business Receivables-Cash Accounts 3,550 2,726 Collateral Placed with Financial Counterparties 3,324 4,115 Other Assets, net 14,035 14,852 Total Assets 3,116,750 3,175,340 Liabilities Deposits 2,326,470 2,349,857 Interbank and Money Market Items 136,862 204,367 Liabilities Payable on Demand 7,223 7,152 Derivative Liabilities 22,338 32,481 Debt Instruments that are Qualified as Capital 9,535 L Bank's Liabilities under Acceptances 1,578 1,530	Less Revaluation Allowance for Debt Restructuring	(5,415)	(5,938)	
Properties for Sale, net 10,604 10,357 Premises and Equipment, net 42,567 43,255 Other Intangible Assets, net 1,080 999 Deduction from Capital (1,080) (999) I Deferred Tax Assets 4,091 3,747 3,747 3,747 3,726 3,72,726 3,726 3,726 3,726 3,726 3,726 3,726 3,726 3,726 <td>Total Loans to Customers and Accrued Interest Receivables, net</td> <td>1,935,781</td> <td>1,923,502</td> <td><u> </u></td>	Total Loans to Customers and Accrued Interest Receivables, net	1,935,781	1,923,502	<u> </u>
Premises and Equipment, net 42,567 43,255 Other Intangible Assets, net 1,080 999 Deduction from Capital (1,080) (999) I Deferred Tax Assets 4,091 3,747 1 Deduction from Capital (2,691) (3,026) J Securities Business Receivables-Cash Accounts 3,550 2,726 2 Collateral Placed with Financial Counterparties 3,324 4,115 4,115 Other Assets, net 14,035 14,852 4,115 <td>Customers' Liabilities under Acceptances</td> <td>1,578</td> <td>1,530</td> <td></td>	Customers' Liabilities under Acceptances	1,578	1,530	
Other Intangible Assets, net 1,080 999 Deduction from Capital (1,080) (999) I Deferred Tax Assets 4,091 3,747 Image: Control of the con	Properties for Sale, net	10,604	10,357	
Deduction from Capital (1,080) (999) I Deferred Tax Assets 4,091 3,747 Deduction from Capital (2,691) (3,026) J Securities Business Receivables-Cash Accounts 3,550 2,726 Collateral Placed with Financial Counterparties 3,324 4,115 Other Assets, net 14,035 14,852 Total Asset 3,116,750 3,175,340 Liabilities Deposits 2,326,470 2,349,857 Interbank and Money Market Items 136,862 204,367 Liabilities Payable on Demand 7,223 7,152 Derivative Liabilities 22,338 32,481 Debt Issued and Borrowings 116,348 95,766 Debt Instruments that are Qualified as Capital 9,535 9,535 L Bank's Liabilities under Acceptances 1,578 1,530 Provisions 16,519 13,859 Deferred Tax Liabilities 1,399 721	Premises and Equipment, net	42,567	43,255	
Deferred Tax Assets 4,091 3,747 Deduction from Capital (2,691) (3,026) J Securities Business Receivables-Cash Accounts 3,550 2,726 Collateral Placed with Financial Counterparties 3,324 4,115 Other Assets, net 14,035 14,852 Total Assets 3,116,750 3,175,340 Liabilities 2,326,470 2,349,857 Interbank and Money Market Items 136,862 204,367 Liabilities Payable on Demand 7,223 7,152 Derivative Liabilities 22,338 32,481 Debt Issued and Borrowings 116,348 95,766 Debt Instruments that are Qualified as Capital 9,535 9,535 L Bank's Liabilities under Acceptances 1,578 1,530 Provisions 16,519 13,859 Deferred Tax Liabilities 1,399 721	Other Intangible Assets, net	1,080	999	
Deduction from Capital (2,691) (3,026) J Securities Business Receivables-Cash Accounts 3,550 2,726 Collateral Placed with Financial Counterparties 3,324 4,115 Other Assets, net 14,035 14,852 Total Assets 3,116,750 3,175,340 Liabilities Deposits 2,326,470 2,349,857 Interbank and Money Market Items 136,862 204,367 Liabilities Payable on Demand 7,223 7,152 Derivative Liabilities 22,338 32,481 Debt Issued and Borrowings 116,348 95,766 Debt Instruments that are Qualified as Capital 9,535 9,535 L Bank's Liabilities under Acceptances 1,578 1,530 Provisions 16,519 13,859 Deferred Tax Liabilities 1,399 721	Deduction from Capital	(1,080)	(999)	I
Securities Business Receivables-Cash Accounts 3,550 2,726 Collateral Placed with Financial Counterparties 3,324 4,115 Other Assets, net 14,035 14,852 Total Assets 3,116,750 3,175,340 Liabilities Liabilities Deposits 2,326,470 2,349,857 Interbank and Money Market Items 136,862 204,367 Liabilities Payable on Demand 7,223 7,152 Derivative Liabilities 22,338 32,481 Debt Issued and Borrowings 116,348 95,766 Debt Instruments that are Qualified as Capital 9,535 9,535 L Bank's Liabilities under Acceptances 1,578 1,530 Provisions 16,519 13,859 Deferred Tax Liabilities 1,399 721	Deferred Tax Assets	4,091	3,747	
Collateral Placed with Financial Counterparties 3,324 4,115 Other Assets, net 14,035 14,852 Total Assets 3,116,750 3,175,340 Liabilities Use of the position of the posi	Deduction from Capital	(2,691)	(3,026)	J
Other Assets, net 14,035 14,852 Total Assets 3,116,750 3,175,340 Liabilities Use of the properties of the pr	Securities Business Receivables-Cash Accounts	3,550	2,726	
Total Assets 3,116,750 3,175,340 Liabilities 2,326,470 2,349,857 Interbank and Money Market Items 136,862 204,367 Liabilities Payable on Demand 7,223 7,152 Derivative Liabilities 22,338 32,481 Debt Issued and Borrowings 116,348 95,766 Debt Instruments that are Qualified as Capital 9,535 9,535 L Bank's Liabilities under Acceptances 1,578 1,530 Provisions 16,519 13,859 Deferred Tax Liabilities 1,399 721	Collateral Placed with Financial Counterparties	3,324	4,115	
Liabilities Deposits 2,326,470 2,349,857 Interbank and Money Market Items 136,862 204,367 Liabilities Payable on Demand 7,223 7,152 Derivative Liabilities 22,338 32,481 Debt Issued and Borrowings 116,348 95,766 Debt Instruments that are Qualified as Capital 9,535 9,535 L Bank's Liabilities under Acceptances 1,578 1,530 Provisions 16,519 13,859 Deferred Tax Liabilities 1,399 721	Other Assets, net	14,035	14,852	
Deposits 2,326,470 2,349,857 Interbank and Money Market Items 136,862 204,367 Liabilities Payable on Demand 7,223 7,152 Derivative Liabilities 22,338 32,481 Debt Issued and Borrowings 116,348 95,766 Debt Instruments that are Qualified as Capital 9,535 9,535 L Bank's Liabilities under Acceptances 1,578 1,530 Provisions 16,519 13,859 Deferred Tax Liabilities 1,399 721	Total Assets	3,116,750	3,175,340	
Interbank and Money Market Items 136,862 204,367 Liabilities Payable on Demand 7,223 7,152 Derivative Liabilities 22,338 32,481 Debt Issued and Borrowings 116,348 95,766 Debt Instruments that are Qualified as Capital 9,535 L Bank's Liabilities under Acceptances 1,578 1,530 Provisions 16,519 13,859 Deferred Tax Liabilities	<u>Liabilities</u>			_
Liabilities Payable on Demand 7,223 7,152 Derivative Liabilities 22,338 32,481 Debt Issued and Borrowings 116,348 95,766 Debt Instruments that are Qualified as Capital 9,535 L Bank's Liabilities under Acceptances 1,578 1,530 Provisions 16,519 13,859 Deferred Tax Liabilities 1,399 721	Deposits	2,326,470	2,349,857	
Derivative Liabilities 22,338 32,481 Debt Issued and Borrowings 116,348 95,766 Debt Instruments that are Qualified as Capital 9,535 L Bank's Liabilities under Acceptances 1,578 1,530 Provisions 16,519 13,859 Deferred Tax Liabilities 1,399 721	Interbank and Money Market Items	136,862	204,367	
Debt Issued and Borrowings Debt Instruments that are Qualified as Capital Bank's Liabilities under Acceptances 1,578 Provisions 16,519 13,859 Deferred Tax Liabilities 1,399 721	Liabilities Payable on Demand	7,223	7,152	
Debt Instruments that are Qualified as Capital Bank's Liabilities under Acceptances 1,578 1,530 Provisions 16,519 13,859 Deferred Tax Liabilities 1,399 721	Derivative Liabilities	22,338	32,481	
Bank's Liabilities under Acceptances1,5781,530Provisions16,51913,859Deferred Tax Liabilities1,399721	Debt Issued and Borrowings	116,348	95,766	
Provisions 16,519 13,859 Deferred Tax Liabilities 1,399 721	Debt Instruments that are Qualified as Capital	9,535	9,535	L
Deferred Tax Liabilities 1,399 721	Bank's Liabilities under Acceptances	1,578	1,530	
	Provisions	16,519	13,859	
Other Liabilities 74,854 69,433	Deferred Tax Liabilities	1,399	721	
	Other Liabilities	74,854	69,433	

2,703,591

2,775,166



Table 6: Reconciliation of Regulatory Capital and Financial Statement under Consolidated Supervision (Continued)

Balance Sheet under the Consolidated Supervision 1

Unit : Million Baht

Provide the second	31 December 2018	30 June 2018	References for the	
Items	Amount	Amount	Group Capital Item	
Owner' Equity				
Share Capital				
Authorized Share Capital				
Preferred Shares	17	17		
Common Shares	39,983	39,983		
Issued and Paid-up Share Capital				
Common Shares	19,088	19,088	A	
Premium on Common Shares	56,346	56,346	В	
Other Comprehensive Income	42,843	44,093		
Qualified as Capital	42,039	43,283	F, G, H	
Retained Earnings				
Appropriated				
Legal Reserve	23,000	22,500	C	
Others	101,500	96,500	D	
Unappropriated	170,037	161,323		
Qualified as Capital	152,107	142,656	E	
Total Shareholders' Equity	412,814	399,850		
Non-controlling Interest	345	324		
Qualified as Tier 1 Capital	60	59	K	
Qualified as Tier 2 Capital	15	15	N	
Total Owner's Equity	413,159	400,174		
Total Liabilities and Owner's Equity	3,116,750	3,175,340	<u> </u>	

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 $^{^{1}}$ The scope of consolidation for accounting and regulatory purposes has no difference .



2. Information Related to the Risks

The effective risk management is fundamental to good banking practice of the Bank and the Group. Accordingly, the Bank has established guidelines for managing risk in each area of the business of the Bank and the Group to ensure that proper risk management mechanisms are in place. Over the past few years, the Bank proactively identified, monitored and analyzed major risk factors which could affect the financial operations of the Bank and the Group and, where necessary, has adjusted their organizational structure and risk management processes. This is to ensure that their risk management systems are effective and in line with international standards and are in accordance with the BOT guidelines.

The Risk Management Committee, the Board of Executive Directors and the senior management all play significant roles in prescribing and reviewing the sufficiency of the risk management policy and system. They also define the risk management strategy, and monitor and control the risk of the Bank and the Group to be at an appropriate level, in compliance with the risk management policy approved by the Board of Directors.

The risk management process of the Bank and the subsidiaries in the Group comprises the identification of significant risks which may potentially impact business operations, the assessment of each type of risk, the monitoring and control of risks to an appropriate level, and the reporting of the status for each type of risk to relevant parties so as to enable them to manage and/or handle the risks in a timely manner.

The key principle of risk management is based on each business unit being responsible for continuously managing its relevant risk exposures and ensuring each risk remains within the approved limits and is in compliance with the overall risk management policy approved by the Board of Directors, while the Risk Management Division is responsible for monitoring and controlling the overall risks on a regular basis. The Risk Management Division and all risk-generating units are audited by the Audit and Control Division to assess the effectiveness, adequacy and appropriateness of the internal control systems.

The approach used by the Bank and the subsidiaries in the Group for the management of credit risk, market risk and operational risk are as follows:

2.1 Credit Risk

Credit Risk is the risk that arises from the inability of borrowers or counterparties to perform their obligations under contractual agreements in relation to lending, investment and other contractual activities, for example the borrowers' failure to repay principal and/or interest as agreed in the contract.

2.1.1 Credit Risk Management

The Bank has established credit underwriting processes which include the formulation of the credit policy, credit risk ratings for customers, and the establishment of different levels of delegation of authority for credit approval, depending upon the type of business and/or the size of the credit line. In considering, the approval of loans in general, the Bank considers the purpose of the loan and assesses the repayment ability of the applicant, taking into account the applicant's operating cash flows, business feasibility, management capability, and collateral coverage. The Bank performs credit reviews which include reviewing credit risk rating on a regular basis. In order to effectively monitor and manage its credit risks, the Bank has, therefore, set up the following divisions.

• Risk Management Division is responsible for analyzing and reporting to management on the status of various risks of the Bank, as well as proposing recommendations for the review of the overall risk policy of the Bank in anticipation



of, and in compliance with, new rules, regulations and international standards. The division is also responsible for overseeing the management of each type of risk to comply with the Bank's risk management policy.

- Credit Management Division is responsible for managing risks related to credit extension by supervising and monitoring
 credit extensions in accordance with the Bank's credit policies. The Credit Management Division comprises the Credit
 Policy unit, the Credit Acceptance unit, the Portfolio Management unit, the Risk Asset Review unit, the Special Asset
 Management unit, the Loan Recovery and Legal unit, and the Bank Property unit. The functions of each unit are
 summarized below
 - Credit Policy unit oversees the credit policy framework and coordinates the improvement and adjustment of the credit policy. It is also responsible for disseminating the credit policy, credit standards and credit processes; for monitoring and overseeing exceptional cases which are inconsistent with the credit policy; and for gathering various inputs which may be used for improving the credit policy.
 - Credit Acceptance oversees the quality of credit extensions to ensure they are in line with the credit policy and credit underwriting standards, reviews the appropriateness of loan structures as well as the results of customers' credit risk ratings, promotes the development of a good credit culture, and maintains a systematic and reliable credit extension process.
 - Portfolio Management unit is responsible for analyzing and making recommendations for adjustments to the portfolio structure, recommending the appropriate portfolio composition and the provision of reserves for loan losses at the portfolio level, developing and overseeing credit risk management tools and methodologies, constructing credit databases, and overseeing related management standards.
 - Risk Asset Review unit is charged with reviewing credit quality and credit management processes, assessing the
 adequacy of loan loss reserves, and evaluating compliance with credit policy, regulations and credit underwriting
 standards.
 - Special Asset Management unit is responsible for managing non-performing loans, and for determining and executing strategies for the resolution and restructuring of troubled loans.
 - Loan Recovery and Legal unit is responsible for taking legal actions, negotiating loan settlements, and seizing collateral for sale by public auction.
 - Bank Property unit is responsible for managing and selling foreclosed assets obtained from loan recovery processes and from legal actions.

For the credit process, credit applications are first considered by the business units and then submitted to the Credit Acceptance unit. The unit conducts additional analysis to help mitigate credit risk by ensuring that the proposals comply with the Bank's credit policies in areas such as credit underwriting standards, credit risk rating, and collateral appraisal. In handling non-performing loans, there is a specific unit to manage and resolve such loans. The Bank also has an independent unit to review credit quality and credit management processes; assess the adequacy of loan loss reserves for non-performing loans; evaluate the effectiveness in complying with credit policy, regulations and credit underwriting standards; and assess the appropriateness of portfolio composition, the adequacy of capital and the effectiveness of stress testing as specified by the Bank and the BOT. All the above units report to the senior management, the Board of Executive Directors and the Risk Management Committee on a regular basis.



The Bank has established different measures to control credit risk. For example, the Bank has instituted limits on the amount of total credit extended, contingent liabilities, and investment in a group of borrowers, an industry and a country. All of this will limit the loss of capital due to an economic downturn. Moreover, the Bank monitors and reports on these aspects to the senior management, the Board of Executive Directors and the Risk Management Committee to ensure that there will be adequate capital to safeguard the continuity of business operations in difficult times.

For the subsidiaries in the Group, credit risk management processes similar to that of the Bank have been established, but the organizational structure of the units that are responsible for the supervision and management of credit risk may vary according to the structure of each company.

2.1.2 Classification and Impairment of Assets

The Bank and each subsidiary in the Group follow the guidelines of the BOT and/or the relevant local regulators regarding the classification of assets and relevant provisions. Assets are classified as normal, special mention, substandard, doubtful, doubtful of loss and loss by taking into consideration the length of time in default of payment whether of principal or interest, and also qualitative measures.

Under the Standardised Approach (SA) for measuring capital adequacy, the Bank and the subsidiaries in the Group's provisions are differentiated into Specific Provision and General Provision as follows:

- Specific Provisions include provisions that have been set aside for non-performing loans based on the difference between the book value of such loans and the present value of estimated future cash flows to be received, either from the debtors or from disposal of collateral; and provisions that have been set aside for performing loans in accordance with the minimum guidelines specified by the BOT and/or the relevant regulators. For loans with similar credit risk characteristics, the Collective Approach may be adopted using historical loss information and current observable data to determine the provisioning level. Furthermore, specific provisions include provisions for any off-balance sheet items where a loss may be realized upon settlement of obligations on behalf of such debtors; provisions for other on-balance sheet assets where objective evidence of impairment exists and the impairment loss can be estimated; and unrealized loss on revaluation of securities categorized as trading and available-for-sale. Specific provisions do not include provisions for assets classified as normal which have already been included in Tier 2 capital.
- General Provisions include provisions that have been set aside in excess of the minimum regulatory requirements for
 potential loss due to changes in economic and legal environment and other factors as outlined above which are not
 earmarked specifically for any particular debtor; and provisions that have been set aside for assets classified as normal
 that are included in Tier 2 capital.



The following tables present the quantitative information related to credit risk at the Bank and the Group level as at December 31, 2018 and 2017.

Table 7: Significant on-statement of financial position assets and off-statement of financial position items before credit risk mitigation classified by remaining maturity

Unit: Million Baht

The (Group
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		31 December 2018									
Remaining maturity		On-statemen	nt of financial po	Off-	statement of fin	ancial position it	ems				
						before	multiplying by o	credit conversion	factors		
	Net loans	Net	Deposits	Derivatives	Total	Avals, loan	OTC	Undrawn	Total		
	and accrued	investment	(including	assets		guarantees,	derivatives	committed			
	interest	in debt	accrued			letters of		lines			
	receivables*	securities	interest			credit					
			receivables)								
Up to 1 year	1,048,272	142,750	191,265	10,381	1,392,668	50,957	1,179,865	12,811	1,243,633		
Over 1 year	1,175,150	303,467	-	18,269	1,496,886	22,901	1,174,283	60,524	1,257,708		
Total	2,223,422	446,217	191,265	28,650	2,889,554	73,858	2,354,148	73,335	2,501,341		

^{*} Including interbank and money market items but excluding general provisions

		31 December 2017									
Remaining maturity		On-statemen	nt of financial po	osition assets		Off	-statement of fin	ancial position it	ems		
						before	multiplying by o	credit conversion	factors		
	Net loans	Net	Deposits	Derivatives	Total	Avals, loan	OTC	Undrawn	Total		
	and accrued	investment	(including	assets		guarantees,	derivatives	committed			
	interest	in debt	accrued			letters of		lines			
	receivables*	securities	interest			credit					
			receivables)								
Up to 1 year	972,519	66,988	191,678	9,667	1,240,852	51,337	888,461	29,258	969,056		
Over 1 year	1,170,006	400,601	-	17,693	1,588,300	9,098	1,034,242	30,029	1,073,369		
Total	2,142,525	467,589	191,678	27,360	2,829,152	60,435	1,922,703	59,287	2,042,425		

 $[\]boldsymbol{*}$ Including interbank and money market items but excluding general provisions



The Bank

		31 December 2018										
Remaining maturity		On-stateme	nt of financial po	Off-	statement of fin	ancial position it	ems					
						before	multiplying by	credit conversion	factors			
	Net loans	Net	Deposits	Derivatives	Total	Avals, loan	OTC	Undrawn	Total			
	and accrued	investment	(including	assets		guarantees,	derivatives	committed				
	interest	in debt	accrued			letters of		lines				
	receivables*	securities	interest			credit						
			receivables)									
Up to 1 year	1,001,114	123,957	154,339	10,066	1,289,476	44,978	1,149,969	16,056	1,211,003			
Over 1 year	1,155,504	297,874	649	18,268	1,472,295	15,833	1,174,283	60,524	1,250,640			
Total	2,156,618	421,831	154,988	28,334	2,761,771	60,811	2,324,252	76,580	2,461,643			

^{*} Including interbank and money market items but excluding general provisions

Unit: Million Baht

The Bank

	31 December 2017									
Remaining maturity		On-statemen	nt of financial po	sition assets	Off-	statement of fin	ancial position it	ems		
				before	multiplying by	credit conversion	factors			
	Net loans	Net	Deposits	Derivatives	Total	Avals, loan	OTC	Undrawn	Total	
	and accrued	investment	(including	assets		guarantees,	derivatives	committed		
	interest	in debt	accrued			letters of		lines		
	receivables*	securities	interest			credit				
			receivables)							
Up to 1 year	928,325	55,770	148,190	9,356	1,141,641	40,778	870,194	32,526	943,498	
Over 1 year	1,156,977	395,301	-	17,692	1,569,970	6,770	1,034,078	30,029	1,070,877	
Total	2,085,302	451,071	148,190	27,048	2,711,611	47,548	1,904,272	62,555	2,014,375	

^{*} Including interbank and money market items but excluding general provisions



Table 8: Significant on-statement of financial position assets and off-statement of financial position items before credit risk mitigation classified by customer's country of residence

					The Group				
				31	December 201	8			
Customer's country of residence		On-statemer	nt of financial po	sition assets	Off-	statement of fin	ancial position it	ems	
						before n	nultiplying by c	redit conversion	factors
	Net loans	Net	Deposits	Derivatives	Total	Avals, loan	отс	Undrawn	Total
	and accrued	investment	(including	assets		guarantees,	derivatives	committed	
	interest	in debt	accrued			letters of		lines	
	receivables ²	securities	interest			credit			
			receivables)						
Thailand	1,726,134	352,341	26,535	23,036	2,128,046	43,625	1,826,770	47,954	1,918,349
Asia	444,898	89,084	132,120	2,073	668,175	29,936	215,600	14,501	260,037
Europe	23,899	390	11,265	3,331	38,885	151	289,347	91	289,589
America	14,928	3,673	21,263	130	39,994	146	10,570	9,621	20,337
Others	13,563	729	82	80	14,454	-	11,861	1,168	13,029
Total	2,223,422	446,217	191,265	28,650	2,889,554	73,858	2,354,148	73,335	2,501,341

¹ Based on customer's country of residence

					The Group				
				31	December 201	7			
Customer's country of residence		On-statemen	nt of financial po	sition assets		Off-	statement of fin	ancial position it	ems
						before n	nultiplying by c	redit conversion	factors
	Net loans	Net	Deposits	Derivatives	Total	Avals, loan	отс	Undrawn	Total
	and accrued	investment	(including	assets		guarantees,	derivatives	committed	
	interest	in debt	accrued			letters of		lines	
	receivables ²	securities	interest			credit			
			receivables)						
Thailand	1,711,336	362,163	29,714	25,215	2,128,428	30,289	1,522,914	39,136	1,592,339
Asia	379,014	98,728	133,487	1,316	612,545	29,736	181,566	8,839	220,141
Europe	23,922	1,388	14,893	701	40,904	281	200,120	188	200,589
America	16,035	3,855	10,496	13	30,399	129	9,174	9,729	19,032
Others	12,218	1,455	3,088	115	16,876	-	8,929	1,395	10,324
Total	2,142,525	467,589	191,678	27,360	2,829,152	60,435	1,922,703	59,287	2,042,425

¹ Based on customer's country of residence

² Including interbank and money market items but excluding general provisions

² Including interbank and money market items but excluding general provisions



TI	10	\mathbf{R}	•	•

	31 December 2018									
Customer's country of residence		On-statement	of financial posi		Off-statement of financial position items					
1						before n	nultiplying by c	redit conversion	factors	
	Net loans and	Net	Deposits	Derivatives	Total	Avals, loan	отс	Undrawn	Total	
	accrued	investment	(including			guarantees, letters of	derivatives	committed		
	interest	in debt	accrued					lines		
	receivables ²	securities	interest			credit				
			receivables)							
Thailand	1,726,708	338,090	19,508	27,533	2,111,839	43,625	1,816,354	47,954	1,907,933	
Asia	377,519	78,950	103,021	509	559,999	16,890	196,118	17,746	230,754	
Europe	23,899	390	11,250	243	35,782	150	289,348	91	289,589	
America	14,928	3,673	21,138	50	39,789	146	10,571	9,621	20,338	
Others	13,564	728	71	(1)	14,362	-	11,861	1,168	13,029	
Total	2,156,618	421,831	154,988	28,334	2,761,771	60,811	2,324,252	76,580	2,461,643	

¹ Based on customer's country of residence

The Bank

				31 D	ecember 2017				
Customer's country of residence		On-statement	of financial posi	ition assets		Off-s	statement of fin	ancial position it	ems
1							nultiplying by c	redit conversion	factors
	Net loans and	Net	Deposits	Derivatives	Total	Avals, loan	отс	Undrawn	Total
	accrued	investment	(including	assets		guarantees,	derivatives	committed	
	interest	in debt	accrued			letters of		lines	
	receivables ²	securities	interest			credit			
			receivables)						
Thailand	1,711,252	355,256	19,428	25,216	2,111,152	30,289	1,522,675	39,137	1,592,101
Asia	321,875	89,116	100,632	1,004	512,627	16,848	163,381	12,107	192,336
Europe	23,922	1,388	14,876	701	40,887	281	200,120	188	200,589
America	16,035	3,855	10,183	13	30,086	130	9,173	9,729	19,032
Others	12,218	1,456	3,071	114	16,859	-	8,923	1,394	10,317
Total	2,085,302	451,071	148,190	27,048	2,711,611	47,548	1,904,272	62,555	2,014,375

¹ Based on customer's country of residence

 $^{^{\}rm 2}$ Including interbank and money market items but excluding general provisions

² Including interbank and money market items but excluding general provisions



Table 9: Loans and accrued interest receivables (including interbank and money market items) and investment in debt securities before credit risk mitigation classified by customer's country of residence and by asset classification guidelines specified by regulators

Unit: Million Baht

The	Grour

	31 December 2018								
Customer's country of residence*			Investment						
	Normal	Special	Substandard	Doubtful	Doubtful	Total	in debt		
		Mentioned			of Loss		securities:		
							Doubtful		
							of Loss		
Thailand	1,723,671	41,891	5,436	17,262	49,787	1,838,047	1,085		
Asia	446,578	4,767	16	3,620	3,822	458,803	198		
Europe	24,182	4	4	-	53	24,243	-		
America	15,103	13	-	-	167	15,283	180		
Others	13,895	-	4	2	8	13,909	3		
Total	2,223,429	46,675	5,460	20,884	53,837	2,350,285	1,466		

^{*} Based on customer's country of residence

The Group

Customer's country of residence		31 December 2017							
			Investment						
	Normal	Special	Substandard	Doubtful	Doubtful	Total	in debt		
		Mentioned			of Loss		securities:		
							Doubtful		
							of Loss		
Thailand	1,696,652	30,543	11,320	18,442	53,537	1,810,494	46		
Asia	373,133	15,129	440	553	2,928	392,183	144		
Europe	23,996	293	-	3	52	24,344	-		
America	16,205	35	-	6	163	16,409	110		
Others	12,538	1	-	8	1	12,548	2		
Total	2,122,524	46,001	11,760	19,012	56,681	2,255,978	302		

^{*} Based on customer's country of residence



The Bank

		31 December 2018								
Customer's country of residence*		Investment								
	Normal	Special	Substandard	Doubtful	Doubtful	Total	in debt			
		Mentioned			of Loss		securities:			
							Doubtful			
							of Loss			
Thailand	1,724,278	41,891	5,436	17,167	49,787	1,838,559	1,085			
Asia	378,721	4,561	8	3,593	3,093	389,976	193			
Europe	24,182	4	5	-	53	24,244	-			
America	15,103	13	-	-	167	15,283	180			
Others	13,895	1	4	2	8	13,910	3			
Total	2,156,179	46,470	5,453	20,762	53,108	2,281,972	1,461			

^{*} Based on customer's country of residence

The Bank

Customer's country of residence		31 December 2017								
		Loans and accrued interest receivables								
	Normal	Special	Substandard	Doubtful	Doubtful	Total	in debt			
		Mentioned			of Loss		securities:			
							Doubtful			
							of Loss			
Thailand	1,696,569	30,543	11,319	18,348	53,537	1,810,316	46			
Asia	315,830	14,801	437	553	1,604	333,225	107			
Europe	23,996	292	-	4	52	24,344	-			
America	16,205	35	-	5	163	16,408	110			
Others	12,538	1	-	8	1	12,548	2			
Total	2,065,138	45,672	11,756	18,918	55,357	2,196,841	265			

^{*}Based on customer's country of residence



Table 10: General and specific provisions and bad debt written off for loans and accrued interest receivables (including interbank and money market items) and investment in debt securities classified by customer's country of residence

	am

	31 December 2018							
Customer's country of residence	Loans a	Loans and accrued interest receivables						
	General provision	Specific provision	Bad debt	securities:				
			written off	Specific provision				
Thailand		111,913	7,197	3,111				
Asia		13,905	561	202				
Europe		344	-	-				
America		355	-	218				
Others		346	-	3				
Total	28,206	126,863	7,758	3,534				

^{*} Based on customer's country of residence

The Group

	31 December 2017							
Customer's country of residence	Loans a	Loans and accrued interest receivables						
	General provision	Specific provision	Bad debt	securities:				
			written off	Specific provision				
Thailand		99,159	935	3,075				
Asia		13,169	221	149				
Europe		422	-	-				
America		373	-	149				
Others		330	-	2				
Total	27,436	113,453	1,156	3,375				

^{*} Based on customer's country of residence



		31 December 2018								
Customer's country of residence	Loans a	Loans and accrued interest receivables								
	General provision	Specific provision	Bad debt	securities:						
			written off	Specific provision						
Thailand		111,851	7,197	3,111						
Asia		12,457	64	195						
Europe		345	-	-						
America		355	-	218						
Others		346	-	3						
Total	25,833	125,354	7,261	3,527						

^{*} Based on customer's country of residence

The Bank

	31 December 2017							
Customer's country of residence	Loans a	Loans and accrued interest receivables						
	General provision	Specific provision	Bad debt	securities:				
			written off	Specific provision				
Thailand		99,064	936	3,075				
Asia		11,350	98	112				
Europe		422	-	-				
America		373	-	149				
Others		330	-	2				
Total	25,631	111,539	1,034	3,338				

^{*} Based on customer's country of residence



Table 11: Loans and accrued interest receivables (including interbank and money market items) before credit risk mitigation, classified by business type and by asset classification guidelines specified by regulators

The Group

		31 December 2018							
Type of Business	Normal	Special	Substandard	Doubtful	Doubtful	Total			
		Mentioned			of Loss				
Agriculture and mining	50,176	714	288	178	266	51,622			
Manufacturing and commercial	745,114	21,406	1,943	12,626	40,232	821,321			
Real estate and construction	189,597	6,498	1,034	1,422	4,872	203,423			
Utilities and services	439,372	12,597	184	1,301	3,688	457,142			
Housing loans	230,448	2,416	1,825	1,703	4,266	240,658			
Others	568,722	3,044	186	3,654	513	576,119			
Total	2,223,429	46,675	5,460	20,884	53,837	2,350,285			

Unit: Million Baht

The Group

			31 Decemb	er 2017		
Type of Business	Normal	Special	Substandard	Doubtful	Doubtful	Total
		Mentioned			of Loss	
Agriculture and mining	44,439	800	8	1,170	373	46,790
Manufacturing and commercial	736,063	20,467	8,682	13,332	42,718	821,262
Real estate and construction	178,722	5,366	781	905	5,998	191,772
Utilities and services	402,780	13,851	1,157	1,180	3,574	422,542
Housing loans	220,244	2,381	1,009	1,521	3,561	228,716
Others	540,276	3,136	123	904	457	544,896
Total	2,122,524	46,001	11,760	19,012	56,681	2,255,978



The Bank

		31 December 2018										
Type of Business	Normal	Special	Substandard	Doubtful	Doubtful	Total						
		Mentioned	of Loss									
Agriculture and mining	47,918	714	288	178	266	49,364						
Manufacturing and commercial	713,900	21,406	1,938	12,600	39,524	789,368						
Real estate and construction	181,613	6,499	1,034	1,422	4,861	195,429						
Utilities and services	430,363	12,595	184	1,301	3,688	448,131						
Housing loans	230,440	2,415	1,823	1,702	4,257	240,637						
Others	551,945	2,841	186	3,559	512	559,043						
Total	2,156,179	46,470	5,453	20,762	53,108	2,281,972						

Unit: Million Baht

The Bank

		31 December 2017										
Type of Business	Normal	Special	Substandard	Doubtful	Doubtful	Total						
		Mentioned			of Loss							
Agriculture and mining	42,570	800	8	1,170	373	44,921						
Manufacturing and commercial	709,441	20,402	8,679	13,332	41,416	793,270						
Real estate and construction	172,120	5,354	781	905	5,987	185,147						
Utilities and services	397,796	13,851	1,157	1,180	3,574	417,558						
Housing loans	220,233	2,378	1,009	1,521	3,551	228,692						
Others	522,978	2,887	122	810	456	527,253						
Total	2,065,138	45,672	11,756	18,918	55,357	2,196,841						



Table 12: General and specific provisions and bad debt written off for loans and accrued interest receivables (including interbank and money market items) classified by business type

	The Group							
	31	December 20	18	31 December 2017				
Type of Business	General provision	Specific provision	Bad debt written off	General provision	Specific provision	Bad debt written off		
Agriculture and mining		2,182	45		1,814	1		
Manufacturing and commercial		75,354	6,370		70,984	584		
Real estate and construction		10,419	504		10,414	78		
Utilities and services		19,809	260		19,121	20		
Housing loans		8,221	25		5,108	19		
Others		10,878	554		6,012	454		
Total	28,206	126,863	7,758	27,436	113,453	1,156		

		The Bank											
	3:	1 December 20	31	31 December 2017									
Type of Business	General	Specific	Bad debt	General	Specific	Bad debt							
	provision	provision	written off	provision	provision	written off							
Agriculture and mining		2,144	45		1,796	1							
Manufacturing and commercial		74,433	5,874		69,613	462							
Real estate and construction		10,307	503		10,298	78							
Utilities and services		19,699	260		19,071	20							
Housing loans		8,215	25		5,102	19							
Others		10,556	554		5,659	454							
Total	25,833	125,354	7,261	25,631	111,539	1,034							



Ending balance

Table 13: Reconciliation of general and specific provisions for loans and accrued interest receivables (including interbank and money market items)

Unit: Million Baht

			The C	Group				
	3	1 December 201	8	31 December 2017				
T4	General	Specific	T-4-1	General	Specific	Total		
Item	provision	provision	Total	provision	provision	10tai		
Beginning balance	27,436	113,453	140,889	25,160	94,993	120,153		
Bad debt written off	-	(7,758)	(7,758)	-	(1,156)	(1,156)		
Doubtful accounts	770	21,771	22,541	2,276	21,201	23,477		
Others	-	(603)	(603)	-	(1,585)	(1,585)		

126,863

155,069

27,436

113,453

28,206

Unit: Million Baht

140,889

	3	1 December 201	8	3	31 December 2017			
	General Specific				Specific			
Item	provision	provision	Total	provision	provision	Total		
Beginning balance	25,631	111,539	137,170	23,759	92,560	116,319		
Bad debt written off	-	(7,261)	(7,261)	-	(1,034)	(1,034)		
Doubtful accounts	202	21,542	21,744	1,872	21,542	23,414		
Others	-	(466)	(466)	-	(1,529)	(1,529)		
Ending balance	25,833	125,354	151,187	25,631	111,539	137,170		



Table 14: On-statement of financial position assets and credit equivalent amount of off-statement of financial position items, net of specific provisions, classified by asset type under SA approach

		The Group									
	31	1 December 2018	3	1 December 2017							
Type of Asset	On-statement	Off-statement of	Total	On-statement	Off-statement of	Total					
	of financial	financial		of financial	financial						
	position assets	position items*		position	position items*						
				assets							
Performing											
- Sovereigns and central banks, Multilateral											
development banks (MDBs), and											
Provincial organizations/ Government											
entities/ State enterprises (PSEs) which											
have the same risk weight as Sovereigns	575,725	93,083	668,808	584,088	66,405	650,493					
- Financial institutions, Securities firms,											
and Provincial organizations/ Government											
entities/ State enterprises (PSEs) which											
have the same risk weight as Financial											
Institutions	187,179	49,042	236,221	205,786	46,140	251,926					
- Corporates, and Provincial organizations/											
Government entities/ State enterprises											
(PSEs) which have the same risk weight											
as Corporates	1,529,584	261,022	1,790,606	1,456,410	226,531	1,682,941					
- Retail	230,925	10,311	241,236	247,816	10,104	257,920					
- Residential mortgage loans	225,892	-	225,892	217,778	-	217,778					
- Other assets	273,756	-	273,756	287,980	-	287,980					
Non-performing	26,448	394	26,842	26,610	1,358	27,968					
Total	3,049,509	413,852	3,463,361	3,026,468	350,538	3,377,006					

^{*} Including repo-style transactions



	The Bank											
	3:	1 December 2018		3	1 December 2017							
Type of Asset	On-statement	Off-statement of	Total	On-statement	Off-statement of	Total						
	of financial	financial		of financial	financial							
	position assets	position items *		position	position items*							
				assets								
Performing												
- Sovereigns and central banks, Multilateral												
development banks (MDBs), and												
Provincial organizations/ Government												
entities/ State enterprises (PSEs) which												
have the same risk weight as Sovereigns	543,688	93,083	636,771	559,516	66,405	625,921						
- Financial institutions, Securities firms,												
and Provincial organizations/ Government												
entities/ State enterprises (PSEs) which												
have the same risk weight as Financial												
Institutions	162,760	49,341	212,101	174,479	47,680	222,159						
- Corporates, and Provincial organizations/												
Government entities/ State enterprises												
(PSEs) which have the same risk weight												
as Corporates	1,461,991	245,351	1,707,342	1,399,181	210,927	1,610,108						
- Retail	227,402	10,241	237,643	243,191	10,034	253,225						
- Residential mortgage loans	225,881	-	225,881	217,764	-	217,764						
- Other assets	293,444	-	293,444	303,354	-	303,354						
Non-performing	26,208	394	26,602	26,329	1,358	27,687						
Total	2,941,374	398,410	3,339,784	2,923,814	336,404	3,260,218						

^{*} Including repo-style transactions

2.1.3 Credit Rating

In assigning risk weights for the calculation of risk weighted assets (RWA) using the Standardised Approach (SA) under Basel III, the Bank and the subsidiaries in the Group use credit ratings from the external credit assessment institutions (ECAIs) who meet the qualifications specified by the BOT. The credit rating from Standard & Poor's is applied for sovereign and financial institutions, while the credit ratings from Fitch Ratings (Thailand) and TRIS Rating are applied for corporate. The process of mapping the ECAI's ratings with the borrower risk weights is prescribed by the BOT.



Table 15: On-statement of financial position assets and credit equivalent amount of off-statement of financial position items, net of specific provisions, after credit risk mitigation for each asset type classified by risk weights under SA approach

							T	he Group							
Type of Asset							31 De	ecember 2018							
			Rating							No ratio	ng				
Risk weight (%)	0	20	50	100	150	0	20	35	50	75	100	250	625	937.5	100/8.5
Performing															
- Sovereigns and central banks, Multilateral development banks															
(MDBs), and Provincial organizations/ Government entities/ State															
enterprises (PSEs) which have the same risk weight as Sovereigns	638,826	397	21,862	3,299	12,284										
- Financial institutions, Securities firms, and Provincial															
organizations/ Government entities/ State enterprises (PSEs) which															
have the same risk weight as Financial Institutions	-	100,751	87,733	24,489	252						2,066				
- Corporates, and Provincial organizations/ Government entities/															
State enterprises (PSEs) which have the same risk weight as															
Corporates	-	125,222	71,344	40,218	37,861	121			5,306		1,402,205				
- Retail										192,604	8,621				
- Residential mortgage loans								192,491		31,020	2,369				
- Other assets						97,885	1,898				171,236	749			1
Risk weight (%)	0	20	50	75	100	150									
Non-performing	614	-	3,524	419	19,504	2,751									
Items deducted from capital	3,772														



Th	e (Gr	ou

Type of Asset							31 De	ecember 2017							
			Rating							No ratii	ng				
Risk weight (%)	0	20	50	100	150	0	20	35	50	75	100	250	625	937.5	100/8.5%
Performing															
- Sovereigns and central banks, Multilateral development banks															
(MDBs), and Provincial organizations/ Government entities/ State															
enterprises (PSEs) which have the same risk weight as Sovereigns	599,256	5,375	24,593	2,456	13,748										
- Financial institutions, Securities firms, and Provincial															
organizations/ Government entities/ State enterprises (PSEs) which															
have the same risk weight as Financial Institutions	-	94,055	109,820	24,751	223		188				2,440				
- Corporates, and Provincial organizations/ Government entities/															
State enterprises (PSEs) which have the same risk weight as															
Corporates	-	119,913	88,080	39,851	32,862	193			2,811		1,315,986				
- Retail										198,900	20,446				
- Residential mortgage loans								186,519		28,726	2,520				
- Other assets						96,688	1,435				184,357	699			
Risk weight (%)	0	20	50	75	100	150									
Non-performing	284	-	2,707	353	17,305	7,166									
Items deducted from capital	826														



	Ran

Type of Asset	31 December 2018														
Risk weight (%)			Rating			No rating									
	0	20	50	100	150	0	20	35	50	75	100	250	625	937.5	100/8.5%
Performing															
- Sovereigns and central banks, Multilateral development banks															
(MDBs), and Provincial organizations/ Government entities/ State															
enterprises (PSEs) which have the same risk weight as Sovereigns	607,190	-	21,862	3,299	12,284										
- Financial institutions, Securities firms, and Provincial															
organizations/ Government entities/ State enterprises (PSEs) which															
have the same risk weight as Financial Institutions	-	83,220	81,028	24,489	252						2,066				
- Corporates, and Provincial organizations/ Government entities/															
State enterprises (PSEs) which have the same risk weight as															
Corporates	-	125,222	71,344	40,218	37,861				5,306		1,328,094				
- Retail										191,934	7,987				
- Residential mortgage loans								192,491		31,010	2,369				
- Other assets						93,285	1,858				198,100	201			
					<u> </u>										
Risk weight (%)	0	20	50	75	100	150									
Non-performing	614	-	3,524	413	19,269	2,751									
Items deducted from capital	2,751														



	The Bank														
Type of Asset Risk weight (%)	31 December 2017														
			Rating			No rating									
	0	20	50	100	150	0	20	35	50	75	100	250	625	937.5	100/8.5
Performing															
- Sovereigns and central banks, Multilateral development banks															
(MDBs), and Provincial organizations/ Government entities/ State															
enterprises (PSEs) which have the same risk weight as Sovereigns	575,885	4,175	24,593	2,455	13,748										
Financial institutions, Securities firms, and Provincial															
organizations/ Government entities/ State enterprises (PSEs) which															
have the same risk weight as Financial Institutions	-	77,419	96,503	24,750	223		188				2,440				
Corporates, and Provincial organizations/ Government entities/															
State enterprises (PSEs) which have the same risk weight as															
Corporates	-	119,913	88,080	39,851	32,862				2,811		1,253,244				
Retail										197,963	19,586				
Residential mortgage loans								186,512		28,718	2,520				
Other assets						94,216	1,393				207,544	201			
Risk weight (%)	0	20	50	75	100	150									
Von-performing	284	-	2,703	353	17,029	7,166									
ems deducted from capital	761														



2.1.4 Credit Risk Mitigation

It is a policy of the Bank and the subsidiaries in the Group to mitigate credit risk through the use of collateral to reduce the potential loss which may arise when borrowers are unable or unwilling to repay loans. Documentation relating to collateral must be in order and verified for validity prior to loan drawdown and ongoing compliance with the conditions of the collateral agreement shall be monitored. Processes, procedures and regulations for collateral valuation have been defined, consistent with the BOT's guidelines on collateral valuation and foreclosed assets obtained from debt repayment of financial institutions.

Credit risk mitigations used in the Bank's and the Group's capital adequacy calculation under Basel III - SA approach are as follows:

- 1. For financial collaterals such as cash, deposits, debt securities and equity securities, the Comprehensive Approach is currently adopted for credit risk mitigation and the Standard Supervisory Haircut specified by the BOT is used.
- On-balance sheet netting is used for repo-style transactions where the counterparties enter into a Global Master Repurchase Agreement that complies with the BOT guidelines.
- 3. Guarantees that may be used as credit risk mitigants must be issued by qualified guarantors from either of the following 2 groups:
 - Guarantors which are sovereigns, central banks, provincial organizations, government entities, state enterprises, financial institutions and securities companies, provided that the guarantors must have risk weights lower than the borrower.
 - Corporate guarantors must have risk weights lower than the borrower.

Credit risk mitigation is applied in accordance with the BOT guidelines.



Table 16: Secured portion of credit exposures after on- and off-balance sheet netting for each asset type under SA approach classified by credit risk mitigation types

Unit: Million Baht

	The Group				
	31 Decer	nber 2018	31 Decer	nber 2017	
Type of Asset	Financial	Guarantees	Financial	ncial Guarantees	
	collateral	and credit	collateral	and credit	
		derivatives		derivatives	
Performing					
- Sovereigns and central banks, Multilateral development					
banks (MDBs), and Provincial organizations/ Government					
entities/ State enterprises (PSEs) which have the same risk					
weight as Sovereigns	45,006	-	54,997	-	
- Financial institutions, Securities firms, and Provincial					
organizations/ Government entities/ State enterprises					
(PSEs) which have the same risk weight as Financial					
institutions	4,709	32,661	782	32,125	
- Corporates, and Provincial organizations/ Government					
entities/ State enterprises (PSEs) which have the same risk					
weight as Corporates	89,460	43,032	69,254	33,846	
- Retail	22,235	17,776	22,301	16,274	
- Residential mortgage loans	12	-	13	-	
- Other assets	1,987	-	4,800	-	
Non-performing	30	622	152	297	
Total	163,439	94,091	152,299	82,542	



Unit: Million Baht

пе	n	ш	IK

	31 December 2018		31 December 2017	
Type of Asset	Financial Guarantees		Financial	Guarantees
	collateral	and credit	collateral	and credit
		derivatives		derivatives
Performing				
- Sovereigns and central banks, Multilateral development				
banks (MDBs), and Provincial organizations/ Government				
entities/ State enterprises (PSEs) which have the same risk				
weight as Sovereigns	45,006	-	54,996	-
- Financial institutions, Securities firms, and Provincial				
organizations/ Government entities/ State enterprises				
(PSEs) which have the same risk weight as Financial				
institutions	4,708	32,661	782	32,123
- Corporates, and Provincial organizations/ Government				
entities/ State enterprises (PSEs) which have the same risk				
weight as Corporates	80,539	42,921	59,544	33,660
- Retail	19,946	17,776	19,403	16,274
- Residential mortgage loans	12	-	13	-
- Other assets	-	-	-	-
Non-performing	30	622	152	297
Total	150,241	93,980	134,890	82,354



2.2 Market Risk

Market risk is the risk of loss in on- and off-balance sheet positions of the Bank and the Group arising from movements in market prices such as interest rates, equity prices, foreign exchange rates, and commodity prices.

2.2.1 Market Risk Management

The Bank's market risk arises from financial services activities provided to customers and/or financial institutions. These involve buying and selling foreign exchange and debt securities, as well as financial derivative transactions, such as foreign exchange forward contracts, cross currency swap and interest rate swap. The Bank manages market risk arising from the position from customer-driven transactions to be at acceptable levels by hedging or reducing the risk exposure. Market risk exposures also arise from the Bank's mismatched own asset and liability positions.

The primary objective of market risk management is to manage the risks resulting from changes in market factors to be at acceptable levels and in line with the overall risk management policy. The Bank and the subsidiaries in the Group have therefore established market risk management policies and specified market risk measurement metrics and limits taking into consideration the nature and complexities of the respective financial activities.

The committee and functional units that are mainly responsible for managing, monitoring and controlling the market risk are:

- The Asset-Liability Management Committee is responsible for establishing and reviewing policies and guidelines for
 asset and liability management and market risk management as well as monitoring and controlling these risks to be at
 acceptable levels and in compliance with the risk management policy set by the Risk Management Committee and the
 Board of Directors.
- The Treasury Division is responsible for executing the trading strategy for the Bank through buying and selling financial
 products such as foreign exchange, bonds, and derivatives instruments, as well as managing the Bank's foreign
 exchange risk, interest rate risk and liquidity risk to be within the limits according to ALCO's guidelines and the
 Bank's acceptable risk level.
- Market Risk unit, which is part of the Risk Management Division, is accountable for assessing, monitoring, reporting and controlling market risk positions against specified limits. The Market Risk unit reports to ALCO and senior management on a regular basis and is responsible for proposing the enhancement of the market risk policies, measurement metrics and limits in response to change in operating environment, the Bank's business plans, and the complexities of financial activities. Moreover, the Market Risk unit coordinates with the subsidiaries of the Group to ensure that their risk management policies and processes are in line with the Bank's practices.

The market risk management practices of the subsidiaries in the Group are similar to the Bank's practices, although the relevant units responsible for overseeing, monitoring and managing the risks may differ depending on each company's organizational structure.



2.2.2 Traded Market Risk

The main traded market risks for the Bank and the Group are interest rate risk and foreign exchange risk.

Risk Assessment and Monitoring for Traded Market Risk

Various tools and measurement techniques are used to assess market risk exposures in the trading book, including:

1. Value-at-Risk (VaR)

VaR is a statistical technique that estimates the maximum potential losses on risk exposures as a result of movements in market rates and prices over a specified time horizon and at a given level of confidence. The Bank uses a historical simulation approach at a 99% confidence level over a one-day holding period to measure interest rate risk (only for general market risk) and foreign exchange risk. Historical Simulation VaR estimates the maximum potential losses assuming plausible future scenarios from the observed historical market movements. To validate the accuracy of the VaR model, the Bank conducts back testing against hypothetical profit and loss of the trading book positions and analyses whether the number of exceptions, i.e. the incidents where hypothetical profit and loss exceed the calculated VaR, are within an acceptable range. Hypothetical profit and loss is calculated by assuming that the previous day's exposures remain unchanged.

2. Other measurements

Apart from the statistical measurement technique, the Bank also uses non-statistical measurements, such as Present Value of a Basis Point (PV01), portfolio size, and mark-to-market profit and loss, to regularly assess major market risk exposures in the trading book as deemed appropriate for each transaction type. The PV01 measures the sensitivity of the value of securities to one basis point change in interest rate.

3. Stress Testing

The Bank performs market risk stress testing on its trading book position at least on a quarterly basis to determine if the impact of potential losses from extreme market movements or crisis situations on the Bank's capital are within the risk tolerance limits. Stress testing also enhances the Bank's understanding of its risk exposures and vulnerability as well as facilitates proactive risk management.

Risk Control for Traded Market Risk

Traded market risk is controlled primarily through a series of limits, such as VaR Limit, PV01 Limit, and Maximum Loss Limit, etc. These limits are specified by ALCO, and approved by the Risk Management Committee, the Board of Executive Directors and the Board of Directors. They are reviewed and updated at least once a year or more frequently when warranted by a material change in circumstances.

By using the historical simulation approach, in 2018 the minimum, maximum and average VaR of the Bank's trading book for a one-day holding period, with a 99 percent confidence level, was Baht 44 million, Baht 135 million and Baht 72 million, respectively.

The subsidiaries in the Group also use, to varying degrees based on the size and complexity of transactions, similar measurement tools and techniques to assess their market risk exposures in the trading book and have specified limits to control these exposures.



Capital Treatment for Traded Market Risk

The Bank currently adopts the Standardised Approach (SA) for the calculation of minimum capital requirement for market risk at both the Bank level and the Group level. In addition, the Bank and the subsidiaries in the Group use VaR models internally to measure, monitor and control traded market risks, as mentioned above in the risk assessment and monitoring section.

Minimum capital requirement for market risk at the Bank and the Group level as at December 31, 2018 and June 30, 2018 are as follows:

Table 17: Minimum capital requirements for market risk based on Standardised Approach (SA)

Unit: Million Baht

	The Group		The Bank	
Capital requirements for market risk	31 December 2018	30 June 2018	31 December 2018	30 June 2018
Interest Rate Risk	3,143	3,717	3,129	3,677
Equity Price Risk	360	476	-	-
Foreign Exchange Risk	1,184	862	1,196	880
Commodity Price Risk	-	-	-	-
Total Capital Requirement	4,687	5,055	4,325	4,557

2.2.3 Interest Rate Risk in the Banking Book (IRRBB)

Interest rate risk in the banking book normally arises when the repricing and/or maturity schedule of assets, liabilities, and off-balance sheet positions are not matched, or when the movements of reference interest rates on assets and liabilities are not correlated, negatively affecting net interest income (NII) and/or economic value of equity (EVE).

Sources of Interest Rate Risk can be classified as follows:

- Repricing risk arises from timing differences in maturity (for fixed rate items) and repricing period (for floating rate
 items) of the Bank's assets, liabilities, and off-balance sheet positions. Repricing risk is the primary form of interest
 rate risk.
- Yield curve risk arises from changes in the shape and slope of yield curves arising from unparallel shifts of the yield curves, including yield curve twist.
- Basis risk arises from imperfect correlation of reference interest rates applicable to the Bank's assets, liabilities and off-balance sheet positions.
- Embedded option risk arises from changes in interest rate, causing uncertainty of cash flows due to the options
 embedded in assets, liabilities and off-balance sheet positions, such as non-maturity deposits and loans without
 prepayment penalty.



Risk Assessment and Monitoring for IRRBB

The measurement of interest rate risk in the banking book provides an assessment of the potential impact of interest rate change on NII, which will help the Bank and the subsidiaries in the Group to manage the risk and determine alternative balance sheet strategies to achieve business return targets. Furthermore, it also provides an assessment of the potential impact on EVE reflecting the sensitivity of the value of assets, liabilities and off-balance sheet positions to changes in interest rates.

The Bank employs both static analysis tools and dynamic simulation techniques to assess interest rate risk in the banking book, including:

1. Repricing Gap Analysis and Sensitivity Analysis

Repricing gap analysis is a traditional method widely used to assess the interest rate risk of current balance sheet positions. It captures repricing risk which is a primary form of interest rate risk, but does not capture yield curve risk, basis risk and embedded option risk.

The Bank uses repricing gap analysis to assess NII impact in the year ahead assuming assets, liabilities and off-balance sheet positions are static and interest rates change immediately across the curves. Repricing gap analysis is also used in conjunction with duration-based weights to estimate the potential impact of interest rate change on EVE.

The Bank assesses and monitors interest rate risk in the banking book through NII impact and EVE impact on a monthly basis.

2. Net Interest Income Simulation (NII Simulation)

NII simulation is a more granular and complex technique than repricing gap analysis. The Bank also uses NII simulation to measure interest rate risk because this technique allows for a projection of future NII under various interest rate scenarios, based on current positions of assets, liabilities, and off-balance sheet items, and assumptions regarding new business activities (dynamic position). This includes assumptions regarding the growth in the positions of balance sheet items, maturity profile of new transactions, product pricing, and the launch of new products. NII simulation is able to capture other types of interest rate risks i.e. yield curve risk, basis risk, and embedded option risk.

The Bank uses NII simulation technique to assess interest rate risk and project future NII from the business plan at least once a year.

3. Stress Testing

The Bank performs stress testing for interest rate risk in the banking book at least on a quarterly basis using static NII simulation on the current position, to assess the potential negative impact to NII under various stress scenarios. The results of stress testing are analyzed and used to determine alternative balance sheet strategies more suited to the business environment in order to achieve the business return target under an acceptable level of risk.

The NII impact for the Bank and the Group of a 100 bps interest rate change using NII Simulation as at December 31, 2018 and 2017 are as follows:



Table 18: Net Interest Income Impact if interest rate rises by 100 bps

Unit: Million Baht

The Group

Currency	31 December 2018		31 December 2017	
	NII Impact	% Earning at Risk	NII Impact	% Earning at Risk
THB	(305)	(0.43%)	(614)	(0.92%)
USD	1,563	2.19%	1,002	1.50%
EUR	276	0.39%	70	0.10%
Others	577	0.81%	579	0.87%
Total NII Impact	2,111	2.96%	1,037	1.56%
Estimated NII in next 12 months	71,376		66,625	

Unit: Million Baht

The Bank

31 December 2018		31 December 2017		
NII Impact	% Earning at Risk	NII Impact	% Earning at Risk	
(335)	(0.49%)	(608)	(0.95%)	
1,503	2.19%	971	1.52%	
276	0.40%	70	0.11%	
390	0.57%	274	0.43%	
1,834	2.68%	707	1.10%	
68,530		64,013		
	NII Impact (335) 1,503 276 390 1,834	NII Impact % Earning at Risk (335) (0.49%) 1,503 2.19% 276 0.40% 390 0.57% 1,834 2.68%	NII Impact % Earning at Risk NII Impact (335) (0.49%) (608) 1,503 2.19% 971 276 0.40% 70 390 0.57% 274 1,834 2.68% 707	



Risk Control for IRRBB

The Bank monitors and controls interest rate risk by specifying a NII Impact Limit (being the cumulative NII impact within 1 year) and an EVE Impact Limit, assuming interest rates change immediately by 100 bps. These limits are reviewed by ALCO and approved by the Board of Executive Directors, the Risk Management Committee and the Board of Directors at least annually or more frequently when warranted by material changes in circumstances.

The Bank manages the interest rate risk by adjusting its asset and liability structure in line with forecast interest rate trends, taking into consideration the changes in NII impact and EVE impact. The Bank may deploy plain vanilla derivatives, such as interest rate swaps and cross currency interest rate swaps, to hedge or mitigate interest rate risk to be within the risk tolerance limit, and manage the risk in accordance with ALCO's guidelines.

The subsidiaries in the Group with significant interest rate risks in the banking book use repricing gap analysis to assess and control IRRBB in the similar fashion as mentioned above.

2.2.4 Equity Exposure in the Banking Book

Equity price risk is the risk associated with equity price changes resulting in the deterioration of investment value and affecting the Bank's and the Group's capital.

Objectives of equity investment in the banking book are as follows

- To enhance income in terms of dividends and capital gains for medium to long-term investments
- To support core banking business by establishing good relationships with customers and creating networks of strategic investment partners
- To exchange for debt repayments from debt restructuring agreements

The Bank's equity price risk arises from various types of investments in both domestic and overseas markets in order to diversify risk, to enhance returns, and to support the development of the Thai capital market, such as investments in property funds and infrastructure funds. In the past year, the Bank's portfolio of equity investment grew considerably, mainly from investment in domestic and foreign listed companies.

The Bank and the subsidiaries in the Group classify equity investments in the banking book in accordance with the applicable accounting standards, with marketable securities classified as available-for-sale investment, non-marketable securities classified as general investment, investment in subsidiaries and investment in associated companies.

Risk Assessment and Monitoring for Equity Exposure in the Banking Book

The market risk management policy is used as a guideline by the Bank and the subsidiaries in the Group in assessing, monitoring, and controlling equity price risk. Measurement techniques for the assessment of equity price risk can be categorized by equity type as follows:

- Listed equity securities: Fair value is used for risk assessment. Stress testing is performed on a quarterly basis, based
 on the stress scenarios implied from historical movements of the security exchange indices, to estimate the maximum
 potential losses that may occur during volatile market conditions.
- Other equity securities: Fair value is used for risk assessment, the reliability of which is reviewed at least annually or more frequently as warranted by market conditions.



In managing equity risk in the banking book, the Bank, as the parent company, controls the ratio of equity exposures to total capital to be in accordance with the BOT's regulation and the Bank's internal guidelines.

Valuation Policy for Equity Exposure in the Banking Book

In establishing the fair value of equity securities, the Bank and the subsidiaries in the Group adopts the following valuation policy:

- Listed equity securities are fair valued by referencing the last bid price on the last business day of the period. If this is not available, the last closing price will be applied. Listed equity securities under rehabilitation are fair valued using the discounted cash flow approach or the net asset value approach, as appropriate.
- Other equity securities that are non-listed equity securities are fair valued using the discounted cash flow approach or
 the net asset value approach, as appropriate. For unit trusts, the fair value is based on net asset value (NAV) as at the
 end of the period.

Equity exposure in the banking book for the Bank and the Group as at December 31, 2017 and 2016 are as follows:

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Table 19: Equity exposures in the banking book

Unit: Million Baht

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	The Group		The Bank		
Equity exposures	31 December 2018	31 December 2017	31 December 2018	31 December 2017	
Equity exposures *					
• Equity securities listed on a securities					
exchange (domestic and foreign)					
- Cost value	39,133	35,960	39,133	35,960	
- Market value	71,671	77,087	71,671	77,087	
• Other equity securities (both in domestic					
and foreign)	37,921	42,728	69,502	71,688	
Gains (losses) on sales of equity securities					
for the year	10,461	8,052	6,802	8,087	
Unrealized gains (losses) on revaluation from					
available-for-sale equity securities	34,975	44,335	34,881	44,173	
Minimum capital for equity exposures under					
SA approach	9,417	10,336	12,024	12,721	

^{*} Net of the impairment charges for the investment in equity securities



2.3 Liquidity Coverage Ratio (LCR)

According to the Basel III guideline, the Bank is subject to the Liquidity Coverage Ratio (LCR) requirement imposed by the BOT. This guideline aims to ensure that a bank has adequate liquidity to support short-term severe liquidity stress scenarios by requiring a bank to maintain High-Quality Liquid Assets (HQLA) to cover total Net Cash Outflows over the next 30 calendar days under severe liquidity stress scenarios (Net COF). The BOT requires commercial banks to maintain LCR at the end of each month not less than 60%, starting from January 1, 2016. The LCR requirement is to increase by 10% yearly until it reaches 100% on January 1, 2020. The LCR calculation is as follow.

HQLA is unencumbered high-quality liquid asset that can be easily and immediately converted into cash at little or no loss of value even under severe liquidity stress scenarios. All high-quality liquid assets must also meet the minimum standard as stipulated by the BOT. When calculating the amount of HQLA, the value of all qualified assets must be combined and deducted by the haircut value as specified by the BOT. The caps of each class of HQLA must be considered.

Net COF is calculated by deducting the total expected cash inflow from the total expected cash outflow within the period of 30 days during the severe liquidity stress scenario. The total expected cash inflow cannot exceed 75% of the total expected cash outflow and cannot include those assets that are already qualified as HQLA. In calculating expected cash inflow and outflow, the Bank estimates the flows by applying the inflow rates and the run-off rates specified by the BOT.

The Bank's quarterly LCR which is an average of month-end value in each quarter is shown below.

Table 20: Liquidity Coverage Ratio

Unit: Million Baht Average Value for the fourth quarter² Items Year 2018 **Year 2017** 687,826 749,624 Total High-Quality Liquid Assets 239,104 297,838 Total expected net cash outflows within the next 30 days 288% 252% LCR1 80% 70% Minimum LCR required by the Bank of Thailand

Note

¹ The LCR is computed as an average ratio of month-end LCR in the quarter. This may not be equal to an LCR computed with the average values of HQLA and Net COF.

² Average of month-end value in the quarter.



The Bank's average LCR for the third quarter and the fourth quarter of 2018 in comparison with those of 2017 are shown below.

Table 21: Comparison of Liquidity Coverage Ratio

	Average LCR	Year 2018	Year 2017
The third quarter		259%	270%
The fourth quarter		288%	252%

For the fourth quarter of 2018, the Bank's average LCR was 288 percent, well above the regulatory minimum requirement of 80 percent.

The Bank's average HQLA was 687,826 million Baht for the fourth quarter of 2018. Of this amount, 94 percent was Level 1 HQLA, which included cash and qualifying debt securities issued or guaranteed by governments, central banks and state enterprises. The remaining was Level 2 HQLA, which were mainly qualifying corporate debt securities rated at least A or equivalent and promissory notes issued by Thailand's Ministry of Finance.

The Bank's average Net COF was 239,104 million Baht for the fourth quarter of 2018. The expected net cash outflows of the Bank were mainly driven by deposits and borrowings from retails and corporates, as well as contingent bond bought. The main drivers of the Bank's inflows were fully-performing loans, interbank placement and contingent bond sold.

The Bank assesses, monitors and controls liquidity risk through a variety of measurements, along with the LCR, such as loan-to-deposit ratio, cumulative net cash flow positions, funding concentration and Net Stable Funding Ratio. The Bank also regularly monitors the early warning indicators to detect any potential liquidity crisis. This is to ensure that the Bank has sufficient liquidity for business operation as usual and can proactively manage liquidity risk.

2.4 Operational Risk

Operational Risk is the risk of loss from failed or inadequate internal processes, people and systems, or from external events. This includes legal risks, but does not include strategic risks and reputational risks.

The Bank understands that good operational risk management is vital to sustainable business success, particularly in the current environment of uncertainty, both domestic and international, prevail. Thus, effective operational risk management with sufficient coverage of all aspects of operations is a key priority for the Bank and the Group, and includes being well-prepared to deal promptly with unexpected events, including the compliance with regulations in Thailand and overseas which has become more demanding.

Furthermore, the Bank pays close attention to quality of customer service and customer care, suitability of products and services sold, reinforcement in system security, information systems, and all electronic/digital channels as well as risk management of fraud related to bank products and services such as credit cards, ATM cards and electronic services to ensure customer confidence. In relation to a new product launches, the product and service risks must be well analyzed, assessed and controlled to be at the acceptable level, and the appropriate risk control procedures must be in place.



Operational Risk Management

The process by which the Bank and the subsidiaries in the Group addresses operational risk management covers defining, assessing, monitoring, mitigating and controlling risk. Each unit in the organization is directly responsible for managing its operational risk and for establishing measures to mitigate, monitor and control risk to the designated level by allocating appropriate resources and establishing an organizational culture for managing operational risk.

The Bank has The Operational Risk Management Committee ("ORMC"), comprising senior executives from various business and support units, which is responsible for supporting and overseeing the functioning of the Bank's operational risk management and business continuity management to comply with the Bank's policy.

The Bank has a dedicated unit for operational risk management under its Risk Management Division, which is responsible for the operational risk management system, such as monitoring and supporting every unit in implementing the operational risk management framework at the unit level, managing operational risk at the organization level, reviewing operational risk management in the process of product and service development, calculating the capital required for operational risk under the Basel framework, and maintaining and analyzing data on the operational risk loss data system.

The Bank also ensures the cooperation among Operational Risk Unit, Compliance and Audit and Control Division, in respect of information sharing, analyzing and setting of controls to enhance the efficiency of operational risk management and internal control of the Bank

Likewise, the subsidiaries in the Group have assigned the responsibility for operational risk management at both the unit and the organization level, in line with the Bank's practices, although the relevant units responsible for overseeing, monitoring, and managing operational risk may differ depending on each company's organizational structure.

Operational Risk Assessment and Monitoring

A key principle underlying the Bank and the subsidiaries' operational risk management is to educate staff throughout the organizationby providing them with a consistent understanding of operational risk, and to cultivate a sustainable operational risk culture as part of day-to-day business activities across the Bank, through Operational Risk Management Tools, e.g. Risk Control Self-assessment (RCSA), so that they are able to accurately and completely identify the operational risks, assess the risk, analyze details of the risks, assess the effectiveness of controls, find appropriate solutions to mitigate risks, and implement the selected solutions to minimize risks. This is followed by systematic monitoring of progress, measurement of potential risk, e.g., Risk Monitoring Information (RMI) and Loss Data collection, and the use of reporting systems as key elements of compiling and analyzing preventive and control measurements, and/or effectively diminishing operational risk, as well as regular reviews of the entire process.

Loss data arising from operational risk events for the Bank and the subsidiaries in the Group are maintained in a database. Reports on operational risk exposures and operational risk management are provided on a regular basis.



Operational Risk Mitigation

An important mechanism in controlling, preventing, and mitigating operational risk is an effective internal control system with strong participation of management. Each business unit must enforce operational controls vigorously, ensure compliance with regulations including anti-money laundering measures, implement the segregation of duties and procedures for verification and reconciliation, define approval authorities as well as establish limits commensurate with the scale of the business, the business type and level of staff. The reliability of the information technology system and the security measures related thereto is also of paramount importance.

The Bank and the subsidiaries in the Group have implemented Business Continuity Management (BCM) to enhance their resilience and their capability of responding to unexpected interruptions. The Group has adopted a BCM Policy and a Business Continuity Plans, which are reviewed and updated in accordance with potential threats, as well as being tested on a regular basis.

The Calculation of Value Equivalent to Operational Risk-weighted Asset

The Bank currently uses the Standardised Approach - Operation Risk (SA-OR) to calculate the value equivalent to operational risk-weighted asset at both the Bank level and the Group level. This calculation approach allocates the gross income into business lines and multiplies with a Beta value each business line as prescribed by the BOT.

2.5 Information Technology Risk

Information Technology (IT) Risk is the risk of losses from inadequacy or inefficiency in managing security, confidentiality, integrity, and availability of IT systems, data and IT infrastructure, as well as the management of IT third-party, IT resilience and continuity, and IT projects.

Key IT risk factors of financial business are composed of internal factors and external factors. Internal factors are systems, in terms of their capability and the adoption of technology for business operations; their complexity which may inflict risks; the issue of system and data security; the accuracy of data processing; the development of, and changes in, technologies; and the adequacy of personnel regarding IT risk awareness and understanding, including malicious and inadvertent insiders. External factors are more diversified, rapid and complex form of cyber risk or IT threat. Moreover, current risks from changes in the business-chain environment relying on technology and data security management in operating businesses become factors for creating business opportunity as well as risk due to the business landscape transforming towards the era of digitalization.

The Bank is aware of the risks arising from the use of IT and the importance of information security and cyber security. The Bank has developed an IT Risk Management Policy and updated its Information Security and Cyber Security Policy. Moreover, the Bank has enhanced the readiness of its IT governance and IT risk management in aligning with the operational risk management framework to strengthen capability in proper IT risk management and information security and cyber security throughout the Bank by putting in place a framework for the following areas: Strengthening cyber security to meet the most up-to-date standards; Assessing cyber risk and making appropriate adjustments to the assessment framework according to each situation; Regularly building awareness and understanding of cyber security with its staff and customers; Developing contingency plans to rapidly and effectively handle different forms of cyber risk to reduce its impact; and Collaborating with external organizations to further strengthen the Bank's readiness to both effectively prevent and handle cyber risk.