# CAPITAL ADEQUACY AND RISK MANAGEMENT 2017

Pillar 3 of the Basel regulations

SBAB!

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# **GLOSSARY**





#### CHAPTER 4 RISK MANAGEMENT AND RISK ORGANISATION

#### Asset and Liability Committee (ALCO)

The body that handles matters relating to risk and capital planning, which are then addressed by Executive Management and the Board.

Directive 2013/36/EU - CRD IV of the European Parliament and of the Council on authority to conduct operations in credit institutions and on the supervision of credit institutions and securities companies Common European regulations on risk management and capital adequacy.

Regulation (EU) No. 575/2013 of the European Parliament and of the Council on prudential requirements for credit institutions and investment firms (CRR)

Common European regulations on risk management and capital adequacy.

#### Internal capital adequacy assessment process (ICAAP)

Process according to Article 73 of CRD IV for continuously calculating and maintaining capital in an amount, type and distribution that is sufficient to cover the risks to which the bank is or will become exposed.



#### Perpetual subordinated loans

Perpetual subordinated loans have a maturity that is essentially unlimited, but they can be repurchased with the permission of Finansinspektionen (the Swedish FSA).

#### Internal ratings-based approach (IRB approach)

The IRB approach is used to calculate the regulatory capital requirement for credit risk. The foundation IRB (FIRB) approach entails that the institution is only to estimate the PD parameter. In the advanced IRB (AIRB) approach, the institution is to estimate, in addition to PD, one or several of the parameters CCF, LGD and M (maturity).

#### Own funds

Own funds consist primarily of equity and subordinated loans and act as a buffer against unexpected losses.

#### Capital requirements under Pillar 1

Refers to the minimum amount of capital that the company is to have in accordance with CRR and CRD IV, the Special Supervision of Credit Institutions and Investment Firms Act (2014:968), the Capital Buffers Act (2014:966) and the Swedish FSA's regulations (FFFS 2014:12). These provisions also include transitional rules deriving from Basel 1, which applied until 31 December 2017.

#### Credit valuation adjustment risk (CVA risk)

The CVA risk is the risk that the counterparty in a financial transaction defaults and is unable to meet future payments under contracted OTC derivative agreements. Transactions with a central counterparty (CCP) should be excluded from the capital requirement for CVA risk.

#### Common Equity Tier 1 (CET1) capital

Tier 1 capital less additional Tier 1 capital. Consists primarily of equity.

#### Minimum capital requirement

The lowest amount that the company is permitted to have as own funds.

#### Tier 1 capital

Tier 1 capital mainly comprises equity and additional Tier 1 capital.

#### Additional Tier 1 capital

Additional Tier 1 capital generally comprises perpetual subordinated loans that meet the requirements in Article 52 of the CRR. According to the transitional regulations, older additional Tier 1 capital may also be included in Tier 1 capital.

#### Risk exposure amount (REA) in accordance with Basel 1

All balance-sheet and off-balance sheet assets that are weighted according to risk. Under the Basel 1 regulations, this is performed on a standardised basis. The assets are divided into categories based on risk, whereby they are multiplied by a number of pre-established risk weightings, primarily 0%, 20%, 50% and 100% of the carrying amount.

#### Risk exposure amount (REA) under Basel 3

The Basel 3 regulations permit the use of the IRB approach, within the Pillar 1 framework, to establish REAs for balance-sheet and off-balance sheet exposures based on SBAB's own models for credit risk, market risk and operational risk. The risk weightings of other exposures are determined on a standardised basis, in appropriate cases based on the counterparty's rating.

#### Tier 2 instruments

Subordinated loans that meet the requirements in Article 63 of the CRR may be included in own funds. According to the transitional regulations, older Tier 2 instruments may also be included in own funds. If the remaining maturity is less than five years, a deduction will be made based on the remaining number of days.

#### Total capital ratio

Own funds divided by the risk exposure amount.

# CHAPTER 6 INTERNALLY ASSESSED CAPITAL REQUIREMENT

#### Economic capital

Economic capital is based on models in which SBAB assesses quantifiable risks. This constitutes an important component in, for example, pricing, financial control and in assessment of the requisite scope of risk capital.

#### Exposure at default (EAD)

Exposure at the time of default. To calculate the EAD for contingent liabilities, the unutilised amount is multiplied by a credit conversion factor (CCF).

#### Capital requirements under Pillar 2

The assessment is based on economic capital which, in combination with capital based on stress tests and capital for further risk, comprises the company's own assessment of the appropriate scope of risk capital. Under Pillar 2, the capital requirement may not be less than the capital metric under Pillar 1 for each risk type.

#### Value at Risk (VaR)

A statistical metric of the maximum expected loss at a given level of security and over a defined time period.

# CHAPTER 9 CREDIT RISK IN LENDING OPERATIONS

#### Expected loss (EL)

The calculated EL must be covered by earnings from operating activities, while unexpected losses must be covered by the company's equity. EL is arrived at by calculating the risk associated with each individual loan using a statistical model based on a longer time horizon. EL is measured through the formula EL = PD\*LGD\*EAD.

#### Contingent liabilities

A commitment, pledged collateral or similar item that is not recognised in the balance sheet because it is unlikely that it will be necessary to realise or utilise it, or because, due to its extent, it cannot be calculated with sufficient reliability. Contingent liabilities may also comprise possible commitments, meaning it is uncertain whether or not the commitment exists.

#### Credit conversion factor (CCF)

The percentage of an off-balance sheet item that is expected to be utilised at the time of a possible future default.

#### Loan-to-value (LTV)

The loan-to-value ratio expresses the extent of a loan in relation to the value of pledged collateral.

#### Loss given default (LGD)

Loss amount in the event of default.

#### Probability of default (PD)

Probability of default of a customer or counterparty within one year.

# CHAPTER 10 FUNDING

#### Credit Support Annexe (CSA)

Supplement to the ISDA Master Agreement that regulates the provision of collateral in connection with a derivative transaction.

#### Euro Medium Term Covered Note Programme (EMTCN)

International funding programme for issuing covered bonds.

#### Euro Medium Term Note Programme (EMTN)

International funding programme for medium and long-term unsecured funding.

#### Global Master Repurchase Agreement (GMRA)

International standardised agreement for repurchases.



# International Swap and Derivatives Association (ISDA) Master Agreement

Framework agreement that regulates the rights and obligations between the parties to a derivative transaction, primarily the netting of debt in the event of insolvency.

#### Repo transaction

A repo transaction comprises a reverse purchase agreement whereby one party undertakes to sell a security to a counterparty in exchange for cash. In parallel, a futures contract is entered into to repurchase the security at a specific price at a specified future date.



#### Liquidity coverage ratio (LCR)

The LCR is a liquidity risk metric that measures the relationship between liquid assets and a 30-day net cash outflow in a stressed scenario.

#### Net stable funding ratio (NSFR)

A liquidity risk metric of a structural nature that demonstrates the stability of the Group's funding in relation to its assets

#### Survival horizon

Measurement of the number of days over which liquidity needs can be met in a stressed scenario without access to new liquidity.

# INTRODUCTION

In this report, SBAB discloses information on capital adequacy and risk management based on Regulation (EU) No. 575/2013 of the European Parliament and of the Council on prudential requirements for credit institutions and investment firms (CRR) and the Swedish FSA's regulations regarding prudential requirements and capital buffers (FFFS 2014:12). This report pertains to the consolidated situation and the conditions prevailing on 31 December 2017. For periodic information, please refer to the quarterly reports "Capital, liquidity and leverage disclosures" at www.sbab.se.

SBAB Bank AB (publ) is owned by the Swedish state. Its operations, which consist principally of deposit operations and residential mortgage lending to consumers, tenant-owners' associations and property companies in Sweden, are characterised by a low level of risk. SBAB is well capitalised.

The CET1 capital ratio remained satisfactory at 32.2%, which is on a par with the end of last year. The loan loss ratio remained low. By means of its strong capital position and good risk management, SBAB meets the supervisory rules adopted by the EU.

Credit risk at SBAB rose over the year due to increased credit volumes. Liquidity risk was relatively unchanged and remained low. Over the year, market risk declined due to a large share of the liquidity portfolio continuing to be transferred from the trading book to the banking book.

New common regulations on supervisory requirements for credit institutions have been adopted by the EU. The regulations serve to increase the stability of the international banking sector and encompass, inter alia, capital adequacy and major exposures, requirements regarding liquidity coverage and leverage,

as well as an opportunity for the authorities to introduce capital buffers that can be used to mitigate systemic risk and economic fluctuations. The regulations encompass capital requirements and requirements regarding quality of capital. The rate of change in the regulatory frameworks has remained high. In 2017, the EBA and the Basel Committee presented additional guidelines for minimum capital requirements and risk management, including application of the disclosure requirements under Part 8 of the CRR and proposals for a new standardised approach for credit risk and new draft rules for managing central government exposures.

In 2016, Sweden introduced a repayment requirement for new residential mortgages and in 2017, the Swedish FSA proposed a raised repayment requirement for borrowers with loan to gross income multiples in excess of 4.5. According to the proposal, the rules will apply from 1 March 2018 after being approved by the government on 30 November.

This report shows the significant operational risks for SBAB broken down by risk type as per the table on the next page.

Risk type

#### TABLE 1. SIGNIFICANT RISKS

|           | кізк арре      | tite   |                           |                          |
|-----------|----------------|--------|---------------------------|--------------------------|
|           | Classification | Level  | Risk profile              | Risk management          |
|           |                |        |                           |                          |
| ations to | Wanted risk    | Medium | SBAB's customer hase pri- | Cradit risk is cantral t |

D:-I- ------

#### Credit risk in lending operations The risk that the counterparty does not fulfil its payment obligati

The risk that the counterparty does not fulfil its payment obligations to SBAB. Credit risk is defined as the risk of loss due to the customer's inability to make interest and loan repayments or otherwise fulfil the loan agreement. Credit risk arises in conjunction with loans and loan commitments, as well as in connection with value changes in pledged collateral. The credit risk also includes concentration risk, which refers to the increase in credit risk that arises in large exposures to individual counterparties, regions or

READ MORE — AR NOTE 2a.

marily comprises consumers and tenant-owners' associations, the majority of which are concentrated to major metropolitan areas. To a limited extent, lending takes place for commercial proper

al to SBAB's business model and is considered to be the dominant risk in operations.

Credit granting in SBAB is characterised by responsible credit granting taking into account the customer's long-term repayment capacity and resilience. Credit rules and credit management are continuously analysed, processed and improved. Corporate clients are processed individually while retail customers are analysed using a structured process in conjunction with the credit approval process.

#### Credit risk in treasury operations

Defined as the total of investment risk and counterparty risk. Counterparty risk is defined as credit risk in financial derivatives that arises when the value of the instrument changes resulting from variations, for example, in interest rates or currency exchange rates, which means SBAB recognises a receivable against the counterparty. In addition, counterparty risk entails that SBAB's financial counterparties cannot meet their commitments under the contracted repos. Investment risk is defined as credit risk in financial investments and entails the risk that a debtor does not fulfil its payment obligations, meaning either completes payments late or not at all. Investment risk arises through investments in the liquidity portfolio and the investment of surplus liquidity.

READ MORE — AR NOTE 2b

Necessary risk Low SBAB's counterparty risks and investment risks are low and are not considered dominant

Counterparty-risk exposure is primarily covered through collateral agreements in which the counterparty provides collateral in an effort to reduce exposure. Investment risk is mitigated as SBAB only invests in interest-bearing bonds with AAA credit ratings.

#### Market risk

The risk of loss or reduced future income due to market fluctuations. Market risk includes interest-rate risk, currency risk, basis risk and spread risk. Currency risk refers to the risk that changes in the exchange rate for SEK against other currencies result in losses or lower future income. Interest-rate risk is defined as the risk that variations in interest rates result in losses or lower future income as assets and liabilities have different fixed-interest periods and interest terms. Spread risk refers to an exposure to changing conditions between interest costs for different issuers. Basis risk refers to the risk associated with deposits and lending that are locked to different interest bases

READ MORE – AR NOTE 2d.

Necessary risk

Low

SBAB's market risk is low and is not considered a dominant Interest-rate risk is mitigated through direct funding or the use of derivatives. Currency risks are mitigated as funding in international currency is hedged through currency swaps or invested in matching currencies.

#### Operational risk

The risk of losses due to inappropriate or unsuccessful processes, human error, faulty systems or external events, including legal risk. The forms of operational risk applicable to SBAB are shown in the categorisation of types of events. Examples of types of events that could be applicable are internal and external fraud, work conditions and environment, damage to tangible assets, disruptions to the business operations and systems, transaction management and process control. Legal risk includes the risk that agreements or other legal transactions cannot be completed in accordance with specific terms and conditions or that judicial proceedings are started that could have a negative impact on SBAB's operations.

READ MORE – AR NOTE 2e.

Necessary risk

Operational risk is a natural part of all business. SBAB aims to optimise the relation ship between costs for operational risk and operating activities SRAR considers operational risk to be a pre requisite for implementing the business concept efficiently and competitively, taking into account operations, strategy, risk appetite and the macro environment.

Within SBAB, risk management consists of uniform valuation and reporting of operational risk. The analysis of risk levels in all operations is conducted on a regular basis and reported to the Board, the CEO and the Executive Management.

Self-evaluation and incident management are central features in monitoring processes.

In order to identify risks that may arise from changed or new processes, a new product approval process (NPAP) is carried out before implementation.

#### **Business risk**

The risk of declining earnings due to deteriorating competitive conditions or an incorrect strategy or decision. As the accounting standards used by SBAB require that certain components of the portfolio are measured at market value while other components are recognised at their carrying  $% \left( 1\right) =\left( 1\right) \left( 1\right$ amount, this impacts on earnings, and consequently also own funds, that do not correspond to the actual risk to which the portfolio is exposed. To limit such effects, income volatility is to be measured and limited.

READ MORE – AR NOTE 2f.

Necessary risk

SBAB's business risk is low and is not considered a dominant

ew business is usually relatively similar to the business SBAB already has. Changes in the form of new products or new markets may only constitute a small part of SBAB's activities and must be implemented at such a pace that SBAB does not substantially jeopardise its profit level and with great probability avoids pressure on its own funds. The effect on the operating profit/ loss arising from applied accounting standards is mitigated through limit setting and the greater use of hedge accounting.

#### Liquidity risk

The risk that the company will not be able to meet its payment obligations on the date of maturity without the related cost for obtaining funds increasing significantly. Short-term liquidity risk measures the risk of being impacted in the short term by a lack of liquidity, while structural liquidity risk is a measure of the mismatch between assets and liabilities in terms of maturities, which risks leading to a lack of liquidity in the longer term.

READ MORE - AR NOTE 2c.

Necessary risk

Low

SBAB has a low liquidity risk and diversified funding. Securities that are part of the liquidity reserve have high credit ratings and are eligible as collateral with either the Riksbank or the European Central Bank, to guarantee liauidity.

SBAB's liquidity strategy includes proactive and continuous liquidity planning, active debt management and an adequate liquidity reserve. The funding strategy takes into consideration the expected maturity on the asset side. On this basis, SBAB limits its structural the dasset side. And its dass, Joha limits its studential liquidity risk by maintaining diversified funding with sufficiently long maturities. SBAB has several liquidity metrics, for which limits apply, most of which are monitored and reported on a daily basis.

# 2 THE BOARD'S STATEMENT ON RISK MANAGEMENT AND A BRIEF RISK DECLARATION

The Board of Directors of SBAB Bank AB (publ) supports the risk management described in this document and considers that it meets the requirements that may be placed on it in relation to SBAB's risk profile and adopted short and long-term strategic, capital and financial plans.

#### TABLE 2. RISK APPETITE AND RISK PROFILE

| MBEE 2: KIOK / II TETTI E KIOK I KOT IEE |                |              |                        |                                |
|--|----------------|--------------|------------------------|--------------------------------|
|  | RISK APPETIT   | RISK PROFILE |                        |                                |
| Risk type                                | Classification | Level        | Limit utilisation ecor | Proportion of nomic capital, % |
| Credit risk in lending operations        | Wanted risk    | Medium       | Medium                 | 72                             |
| Credit risk in treasury operations       | Necessary risk | Low          | Low                    | 7                              |
| Market risk                              | Necessary risk | Low          | Medium                 | 16                             |
| Operational risk                         | Necessary risk | Low          | Low                    | 5                              |
| Business risk                            | Necessary risk | Low          | Low                    | _                              |
| Liquidity risk                           | Necessary risk | Low          | Low                    | _                              |

SBAB classifies risks as wanted and necessary:

- Wanted risks comprise those directly related to the business concept.
- Necessary risks are those arising from activities that are regarded as a direct prerequisite for being able to implement the business concept efficiently and competitively, whereby a certain level of risk is accepted.

Credit risk is central to SBAB's business model and is considered to be the dominant risk in SBAB's operations. Credit risk directly related to SBAB's business operations qualifies as a wanted risk, while credit risk related to liquidity investments or in the form of counterparty risk is classified as necessary risk that is acceptable, but where the level of risk should be limited.

Market risk and its components are primarily considered a necessary risk. Market risk should be kept at a low level and not be a predominant risk.

Operational risk is defined as a necessary risk, which means that both expected and unexpected losses must be optimised based on the positive effects to be expected achieved in the form of anticipated revenues, cost savings or reductions in other risk.

Business risk is defined as a necessary risk. Changes in the form of new products or new markets may only constitute a small part of SBAB's activities and must be implemented at such a pace that SBAB does not substantially jeopardise its profit level and with great probability avoids pressure on its own funds. The quantifiable portion of business risk is included in the evaluation of the capital situation in a normal economic downturn.

Liquidity risk is defined as a necessary risk and must be maintained at such a level that SBAB can manage a period of acute liquidity crisis without dependency on the capital market. Liquidity risk is not managed by capital provisions but by maintaining a liquidity reserve.

# **10** THE CONSOLIDATED SITUATION

The consolidated situation includes SBAB Bank AB (publ), AB Sveriges Säkerställda Obligationer (publ) (Swedish Covered Bond Corporation — SCBC). SCBC issues covered bonds in the Swedish and international capital markets.

TABLE 3. THE CONSOLIDATED SITUATION (EBA LI3 TABLE)

#### ENTITIES INCLUDED IN THE CONSOLIDATED SITUATION

| Company  | Corporate Registration<br>Number | Ownership<br>share | Method of accounting consolidation | Method of regulatory consolidation | Company description |
|--|----------------------------------|--------------------|------------------------------------|------------------------------------|---------------------|
| SBAB Bank AB (publ)  | 556253-7513 Po                   | arent Company      | -                                  | -                                  | Institution         |
| AB Sveriges Säkerstäla Obligationer (publ)<br>(Swedish Covered Bond Corporation —<br>SCBC) | 556645-9755                      | 100%               | Full consolidation                 | Full consolidation                 | Institution         |
| ENTITIES NOT INCLUDED IN THE CONSOLIDAT  | ED SITUATION                     |                    |                                    |                                    |                     |
| Company  | Corporate Registration<br>Number | Ownership<br>share | Method of accounting consolidation | Method of regulatory consolidation | Company description |
| Booli Search Technologies AB   | 556733-0567                      | 68%                | Full consolidation                 | Not consolidated                   | IT company          |

SBAB's principal activity is to provide mortgage loans for residential properties and tenant-owners' rights located in Sweden against collateral in the form of mortgage deeds and shares in tenant-owners' associations and, to a limited extent, to finance commercial properties and provide unsecured loans. The Parent Company also offers savings accounts.

Information about the Board of Directors, the recruitment policy, the diversity policy and the risk committee is included in the Corporate Governance Report in SBAB's Annual Report. For information about related parties, please refer to Note 36 of SBAB's Annual Report.

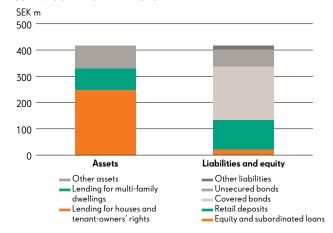
The Swedish Covered Bond Corporation (hereinafter referred to as SCBC) does not conduct any proprietary new lending operations. Instead, it acquires loans from the Parent Company on a regular basis or as needed. The purpose of securing credits is for them to be included, in full or in part, in the cover pool that comprises collateral for holders of covered bonds issued by SCBC in Swedish and international capital markets.

SBAB's sales activities are conducted through two channels: Retail and Corporate Clients & Tenant-Owners' Associations. Retail focuses on lending to consumers and deposits from consumers and companies. Retail also includes the sales channel Partnerships & Business Development, which manages partnerships with external participants. Corporate Clients & Tenant-Owners' Associations is active in the property market through lending to property companies, property funds and

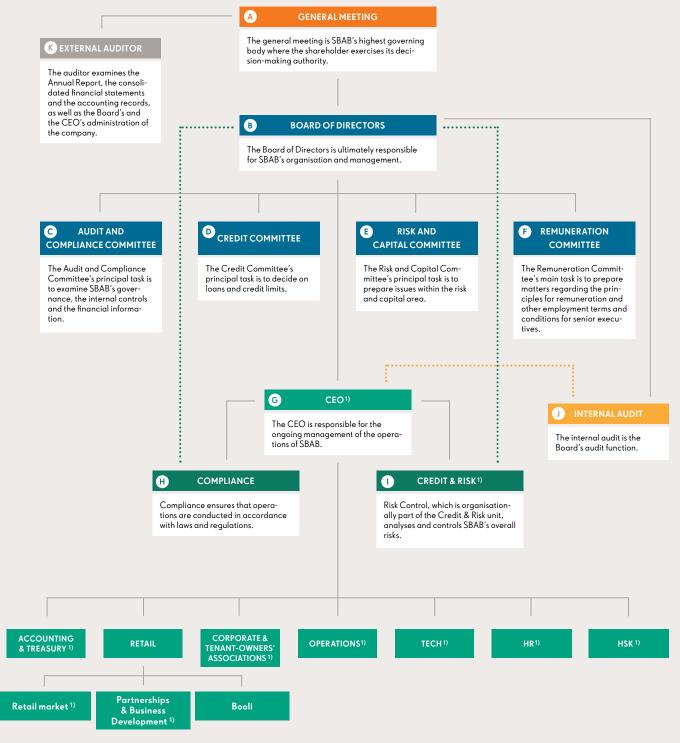
tenant-owners' associations. SBAB's funding is managed by Treasury, within the Accounting & Treasury department.

SBAB owns the majority of the shares (68%) in Booli Search
Technologies AB (Booli), which develops products and services focused on the housing market. Booli was previously deemed to be part of the consolidated situation. Following a more detailed review of Booli's business activities, SBAB has made the assessment that Booli is not part of the consolidated situation which, accordingly, from 31 December 2017, encompasses SBAB Bank AB (publ) and SCBC.

FIGURE 1. CONDENSED BALANCE SHEET



#### FIGURE 2. ORGANISATION



 $<sup>^{1)} \,</sup> Included \, in \, Executive \, Management. \, HSK \, is \, the \, Swedish \, abbreviation \, for \, Sustainability \, and \, Strategic \, Communication.$ 

# RISK MANAGEMENT AND RISK ORGANISATION

SBAB's risk taking is low and is kept at a level commensurate with financial targets for return, scope of own funds and target rating. The lending operations mainly generate credit risk, while the most material risks in the funding operations consist of interest-rate risk and liquidity risk.

#### 4.1 General rules for risk management

Risk management within SBAB should consist of effective management and monitoring of all of the risks in the operations

- Risk management must support operations, maintain a high level of quality to ensure control of all risks, safeguard SBAB's survival, keep in line with rating targets and limit volatility in SBAB's financial position.
- The ability to assess, manage and price risks while simultaneously maintaining sufficient liquidity and capital to meet unforeseen events is of fundamental significance for long-term profitability and stability. The aim of the strategy adopted for the operations is to consider the risks that arise in the operations and the capital needed to cover these risks. This entails that an ongoing discussion should be maintained regarding the risks that arise in the operations and the capital required to counter those risks.
- SBAB is to have an independent risk control function to identify, measure, govern, report and maintain control of the risks that SBAB is or may become exposed to. The independent risk control function must have the requisite competence and mandate. There must be an effective risk management system and satisfactory internal control.
- SBAB must have knowledge and awareness of any risks to which the bank may be exposed. SBAB is to be able to estimate the size of the risks to which the bank is and may become exposed.
- All SBAB employees are responsible for managing the company's risks as part of their regular work. SBAB is to continuously inform and train its employees on the company's risk management framework. A sound risk culture is to be realised through a value-based work approach.

#### 4.2 Risk strategy

SBAB's operations are to be conducted such that risks are adapted to SBAB's capacity risk-bearing capacity. Risk-bearing capacity primarily refers to the capacity to manage expected and unexpected losses by means of own funds or ongoing earnings capacity and, secondly, the capacity to minimise unwanted risks by means of appropriate functions, strategies, processes, procedures, internal rules, limits and controls. Certain risks cannot be quantified and compared with the risk-bearing capacity. In

such cases, the cost of mitigating the risk should be weighed up against the desired level of risk and the change in the level of risk achieved through a particular measure.

SBAB should only deliberately expose itself to risks directly attributable or necessary to SBAB's business operations. Such risks primarily encompass credit risk, liquidity risk, market risk, business risk and operational risk.

In addition to limiting the exposure to different types of risk, the risks to SBAB from using different types of financial instruments must also be limited. In its treasury operations, SBAB should mainly use derivatives for hedging purposes. Since the risk profile of a derivative transaction may differ from that of the hedged exposure, an analysis must always be performed to ensure that the total risk is understood. This is especially important in the use of new financial instruments that must be approved in SBAB's process for new financial instruments prior to the transaction.

SBAB applies a documented process for the approval of new or significantly altered products, services, markets, processes and IT systems as well as major operational and organisational changes.

SBAB's risk strategy involves managing and evaluating risks that the operations are or may be exposed to, through:

- Clear and documented internal procedures and control systems.
- An appropriate and cogent organisational structure with clearly defined and documented powers.
- Current and documented decision-making procedures that clearly state the reporting structure.
- Risk evaluation methods and system support that are adapted to the operations' requirements, complexity and size.
- Sufficient resources and skills to achieve the desirable quality in both business and control activities.
- Regular incident reporting by the operations according to a documented process.
- Documented and communicated contingency and continuity plans.
- Clear instructions on internal capital adequacy assessments, credit risk, operational risk, liquidity risk and market risk, which are updated annually and adopted by the CEO or, if required, by the Board of Directors.
- All material risks for SBAB are limited by the Board and are commensurate with the pre-determined risk appetite.

#### 4.3 Risk appetite

The level of risk taking within SBAB is low. This is achieved by ensuring that the total risk level is kept compatible with short and long-term strategic plans, capital plans and financial plans.

An important part of SBAB's business model entails risks being relatively low and predictable, making it possible to maintain a large volume of business in relation to own funds. This does not mean that each individual credit exposure has low risk, but rather that the total lending portfolio consists largely of low-risk exposures and that their internal risk effect is such that SBAB's total risk is limited. The basis for SBAB's appetite for various types of risk is that each risk should fit within a well-defined segment of SBAB's risk-bearing capacity. The total risk exposure may not exceed the total risk-bearing capacity. The scope of the risk that is accepted must be clearly linked to how important the relevant risk is to SBAB's business model and the positive effects expected to be achieved in the form of anticipated income, cost savings or reduction of other risks.

As a rule, each business decision changes SBAB's exposure to various risk types. Accordingly, SBAB's risk control models are designed to reflect the determined risk appetite and such that each business decision is based on a healthy balance between the estimated impact on earnings and changes in risk exposure.

Based on the chosen strategy, ongoing earnings and the size of own funds, the Board of the Parent Company establishes the risk that SBAB is prepared to take and makes decisions regarding risk appetite targets. These targets are based on three main categories: solvency, liquidity risk and compliance. The solvency category encompasses the risks for which SBAB must retain capital, while liquidity risk encompasses the risks impacting SBAB's prerequisites for successful financing and liquidity management. Compliance, the third main category, encompasses the regulations and ethical standards with which SBAB must comply to pursue its operations. Each category is broken down into subgroups with established limits for which outcomes are followed up on and reported monthly to the CEO and Board.

SBAB's targets for the three risk appetite categories:

- In the first category, solvency, work is conducted to ensure that SBAB maintains sufficient capital to conduct an operation in accordance with the adopted strategy, and that credit risk, market risk, operational risk, concentration risk and income-volatility risk are kept within the levels approved by the Board, and that minimum levels are maintained with regard to capital ratios.
- In the second category, liquidity risk, work is conducted to
  monitor that liquidity meets the determined minimum levels
  so that SBAB is able to cope with periods of strained market
  liquidity. It also includes ensuring that the SCBC's cover pool
  has a sufficient level of collateral to maintain a AAA rating in a
  stressed scenario.

Regulatory compliance is essential in maintaining confidence in SBAB's operations. Even rules that are not legally binding, but that reflect a market practice or ethical guidelines, affect SBAB's approach to employees and customers. The risk appetite metric for the third category, compliance, is not quantifiable in the same way as the other categories — solvency and liquidity — but is summarised in a more preventive qualitative target.

SBAB is tasked with continuously, and at least annually, reassessing the balance between risks and risk-bearing capacity or the costs to minimise risk. The reassessment includes limits and calibration levels, and should be performed prior to the start of business planning, the internal capital and liquidity adequacy assessment processes (ICLAAP) and capital planning. The processes for business planning, ICLAAP and capital planning should then include a clear and documented link to risk appetite.

#### 4.4 Limits for capital ratios and targets for return

Each year, the Board considers capital requirements in relation to the risks to which SBAB is exposed. This is performed through a decision on limits for capital ratios and targets for return.

Based on the chosen business strategy, rating targets and capital planning, the Board decided to change the targets for the CET1 capital ratio and the total capital ratio under normal conditions to not less than 1.5 percentage points higher than the capital requirement communicated by the Swedish FSA.

Moreover, an internal limit exists for capital under the transitional rules (according to Article 500 in the CRR) that apply until the end of 2017. Under the CRR, own funds are to exceed the amount defined as the minimum requirement and a capital planning buffer calculated in accordance with the CRR/CRD IV. The corresponding target for own funds is that, under normal conditions, own funds should exceed the capital requirement defined in the minimum requirement plus a capital planning buffer by 10%. The transitional rules in Article 500 in the CRR will be replaced by a new regulatory framework with minimum requirements based on standardised approaches for the assessment of risk weights. According to the Basel Committee's proposal, "Basel 3: Finalising post-crisis reforms," the new regulatory framework is t apply from 1 January 2022.

Outcomes are reported to the CEO and Board on a monthly basis. More detailed reporting of the current capital position in relation to established targets is performed quarterly. The CRO is responsible for this reporting.

Binding leverage ratio requirements are expected according to the announced proposed changes from November 2016 (CRR2). As of January 2018, the Board has decided that, under normal conditions, the leverage ratio should be at least 0.2 percentage points above the capital requirement communicated by the Swedish FSA or 3%, whichever is higher.

TABLE 4. ADOPTED TARGETS FOR RETURNS AND CAPITAL RATIOS

|  | TARG                | FTC                 | OUTO                | OME                 | DIEEE              | ENCE               |  |
|--|---------------------|---------------------|---------------------|---------------------|--------------------|--------------------|--|
|  | IARC                | E13                 |                     | JOME                | DIFFER             | ENCE               |  |
|  | 2017                | 2016                | 2017                | 2016                | 2017               | 2016               |  |
| Return on equity (owner's return requirement) $^{1)}$ , $\%$ | 10.0                | 10.0                | 12.5                | 12.3                | 2.5                | 2.3                |  |
| CET1 capital ratio, %  | 27.3                | 25.4                | 32.2                | 32.2                | 4.9                | 6.8                |  |
| Total capital ratio, %                                       | 37.7                | 35.5                | 47.6                | 51.6                | 9.9                | 16.1               |  |
| Total capital under the transitional rules                   | SEK 17.6<br>billion | SEK 15.5<br>billion | SEK 19.9<br>billion | SEK 19.8<br>billion | SEK 2.3<br>billion | SEK 4.3<br>billion |  |

<sup>1)</sup> Net profit for the year divided by average equity.

#### 4.5 The three lines of defence

To define the division of responsibilities between the business operations, risk control and compliance, as well as internal audit, SBAB applies the division of roles and responsibilities resulting from the three lines of defence principle:

- The first line of defence refers to the day-to-day management of risks performed by the business operations that incur and own the risks.
- The second line of defence refers to the risk control (comprising the units for financial risk, capital and operational risk) and compliance functions. The risk control units are to ensure that risk awareness and acceptance are sufficient to be able to manage risks on a daily basis. They also have a supportive role and work to ensure that the business operations have the procedures, systems and tools required to maintain the daily management of risks, thereby ensuring that the business operations comply with applicable laws and regulations in risk control's sphere of responsibility. Compliance is to verify that the business operations adhere to laws and regulations and support the business operations within its area of responsibility.
- The third line of defence refers to the internal audit, which reviews and regularly assesses whether the company's organisation, governance processes, IT systems, models and procedures are appropriate and effective, and whether the company's internal controls are appropriate and effective. The internal audit is also tasked with reviewing and regularly assessing the company's risk management based on its adopted risk strategy and risk appetite.

#### 4.6 Risk organisation

SBAB's Board bears the overarching responsibility for the company's total risk exposure and determines the risk policy, capital policy and risk appetite. It is the Board's responsibility to ensure that operations can be conducted with sound internal control so that SBAB's ability to meet its obligations is not compromised. When the Board determines the business strategy, it takes into account the risks that SBAB is and may be exposed to as well as the capital required to cover SBAB's risks.

The Board or its committees are to approve all significant methods, models and processes used in risk management. (For more information regarding the Board's committees, see the Corporate Governance Report in SBAB's Annual Report.) The Board and CEO should have a sound overall comprehension of these and a detailed understanding of the content of the risk reports submitted to them. The CRO is responsible for the Board and CEO receiving ongoing training in risk-related issues and

FIGURE 3. THE THREE LINES OF DEFENCE



for ensuring that new members are trained within two months of commencing their appointments.

The CEO is responsible for ongoing administration in accordance with the strategies, guidelines and governance documents adopted by the Board. The CEO is to ensure that the methods, models and processes forming part of the internal measurement and control of identified risks function as intended and are approved by the Board. The CEO also ensures, on an ongoing basis, that reporting to the Board by each unit, including the Risk Control function, is conducted in accordance with the relevant instructions.

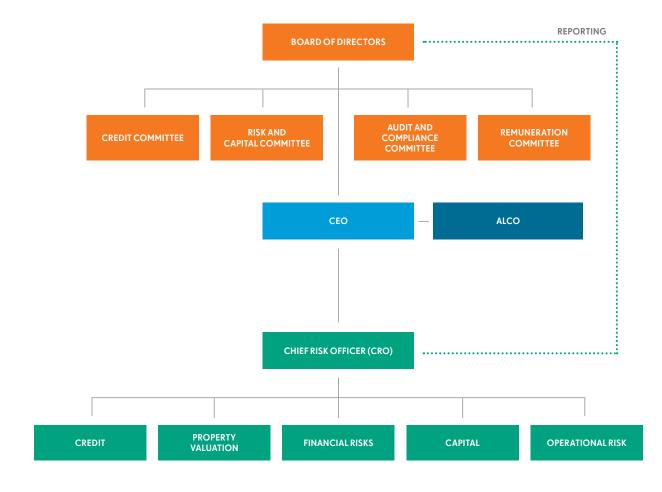
The CRO is responsible for the independent Risk Control function, which comprises identification, quantification, analysis and reporting of all risks. The CRO is directly subordinate to the CEO and reports directly to the CEO and Board of Directors of SBAB. Among other matters, the CRO is responsible for:

- At an overarching level, developing risk-taking strategies and ensuring that SBAB's risk-taking strategies are implemented in accordance with the Board's intentions, and that policies, instructions and processes facilitate relevant follow-up;
- Identifying, measuring, analysing and reporting risk exposure to the Board of Directors and CEO;
- Providing the Board of Directors and the CEO with a tangible and comprehensive overview of all risks in the institution;
- Designing proposals for the risk strategy and participating in all material risk management decisions;
- Having sufficient authority to influence strategic risk management decisions and being able to contact the Board of Directors directly; and
- Designing, implementing, ensuring reliability and following up SBAB's risk classification system and its economic capital model.

A monthly report on the overall risk situation and capital adequacy ratios is presented by risk control to the Board, the CEO and Executive Management. The Board and the CEO are also provided with a more in-depth description of risks on a quarterly basis. In addition, a daily report on current risk levels in relation to granted limits is presented to the CEO, CFO and CRO. SBAB's Board and Executive Management are thereby provided with a relevant overview of the Group's risk exposure on a continuous basis.

Those who own the risks, i.e. the business operations, must, without delay, inform risk control of occurrences of material events that could entail a heightened risk. Clear ownership of risk and compliance applies in the first line of defence at SBAB. This is secured through an organisation comprised of risk and compliance coordinators in the first line of defence, who support the respective business managers with a focus on risk management, process mapping, internal controls, incident management and regulatory compliance.

FIGURE 4. RISK REPORTING



# CAPITAL ADEQUACY

The rules for capital adequacy are stated in the CRR and CRD IV. In part, the rules serve to make institutions more resilient to new crises and, in part, to raise confidence in the institutions' ability to manage new crises. The institutions must prove to rating agencies and the investors who purchase the institutions' securities, as well as new and existing customers, that they have an adequate capital situation.

#### 5.1 Capital requirements

The size of SBAB's capital requirement depends on laws and regulations, the company's internal assessment based on approved strategies, the assessments of investors and rating agencies, and the evaluations made by the owner, the Board and Executive Management.

Capital in accordance with Pillar 1, refers to the minimum amount of capital that the company is to have in accordance with the CRR and CRD IV, the EU's technical standards and delegated acts, the Special Supervision of Credit Institutions and Investment Firms Act (2014:968), the Capital Buffers Act (2014:966) and the Swedish FSA's regulations regarding prudential requirements and capital buffers (FFFS 2014:12). The CRR also includes transitional rules entailing that the capital requirement be at least 80% of the capital requirement under Basel 1 until the end of 2017. A new regulatory framework is being prepared but has not yet been decided for the regulation of a minimum capital requirement from the end of 2017. The total capital ratio amounted to SEK 47.6% at 31 December 2017, and the CET1 capital ratio was 32.2%.

#### 5.2 Capital requirements and buffers

The rules in the CRR and CRD IV entail, among other things, requirements in the Pillar 1 for a minimum level of own funds and controls on capital requirements. According to the requirements, the bank must have a CET1 capital ratio of at least 4.5%, a Tier 1 capital ratio of at least 6% and a total capital ratio at least equal to 8% of the total risk-weighted exposure amount for credit risk, market risk and operational risk. In addition, the bank must maintain CET1 capital to meet the combined buffer requirement, which in Sweden is the sum of a capital conservation buffer of 2.5% of the risk exposure amount, a countercyclical buffer of up to 2.5% and buffers for systemic risk of up to 5%.

The Swedish FSA has decided that, in addition to the capital conservation buffer of 2.5%, a countercyclical buffer of 2.0% will apply for Swedish exposures effective from 19 March 2017. The Swedish FSA has also decided to recognise countercyclical buffer values of up to 2.5% set by a competent authority in another EEA country, which means that Norwegian exposures are subject to a countercyclical buffer of 2.0%. Furthermore, banks considered systemically important are subject to an additional capital requirement of 5% to be covered by CET1 capital. The four largest banks in Sweden are currently considered systemically important: Handelsbanken, Nordea, SEB and Swedbank. In addition,

the Swedish FSA has introduced a risk-weight floor of 25% for residential mortgages to Swedish households.

SBAB has taken these regulations into account in its capital planning (see Chapter 6, Internally assessed capital requirement)

ning (see Chapter 6, Internally assessed capital requirement) and meets the requirements with a margin. The buffer values are presented in Table 11, Risk exposure amounts and capital requirements.

The rate of change in the regulatory frameworks has remained high. Over the year, the EBA and the Basel Committee presented additional proposals for changes aimed at increasing transparency and making institutions more resilient to disruptions in the market. The EBA has presented new guidelines for, inter alia, minimum capital requirements and risk management, including application of the disclosure requirements under Part 8 of the CRR. The Basel Committee presented proposals for a new standardised approach for credit risk and new draft rules for managing central government exposures.

On 1 January 2018, new forthcoming rules in IFRS 9 will replace the accounting rules for credit risk provisions in IAS 39. The new rules entail a new basis for the classification and measurement of financial instruments. SBAB has prepared a model for assessing collective provisions pursuant to IFRS 9. The changes in the regulations for provisions have a limited impact on the capital adequacy ratios, since the change in the results will have the opposite effect in the deduction for expected credit losses in own funds. SBAB has decided not to apply the transitional rules nor additional relief in conjunction with the introduction of IFRS 9. This has been reported to the Swedish FSA.

TABLE 5. GEOGRAPHIC DISTRIBUTION OF EXPOSURES FOR THE CALCULATION OF THE COUNTERCYCLICAL BUFFER

|  |  | IT RISK<br>SURES            |        | G BOOK<br>Sures   | SECUR<br>EXPO:  |   |                                  |      | PITAL<br>EMENTS                       |       |  |                                   |
|--|--|-----------------------------|--------|---|---|---|----------------------------------|------|---------------------------------------|-------|--|-----------------------------------|
| Countercyclical<br>buffer by country,<br>SEK million | Credit-risk<br>exposure<br>amounts<br>using the<br>stan-<br>dardised<br>approach | amounts<br>using the<br>IRB | -      | Trading<br>book expo-<br>sures using<br>the IRB<br>approach | Exposure<br>amounts<br>using the<br>stan-<br>dardised<br>approach | Exposure<br>amounts<br>using the<br>IRB<br>approach | Of which,<br>credit<br>exposures | book | Of which,<br>securitised<br>exposures | Total | Weights<br>capital<br>require-<br>ments, % | Counter-<br>cyclical<br>buffer, % |
| Sweden   | 33,784   | 346,075                     | 5,139  | _   | _   | _   | 2,511                            | 0    | _                                     | 2,511 | 98.52                                      | 2.00                              |
| Norway   | 641  | _                           | 2,105  | _   | -   | _   | 5                                | 11   | _                                     | 16    | 0.62                                       | 2.00                              |
| Other  | 1,950  | -                           | 6,191  | _   | -   | _   | 16                               | 6    | _                                     | 22    | 0.86                                       | _                                 |
| Total  | 36,375   | 346,075                     | 13,435 | _   | _   | _   | 2,532                            | 17   | _                                     | 2,549 | 100.00                                     |                                   |

TABLE 6. INSTITUTION-SPECIFIC COUNTERCYCLICAL BUFFER

| SEK million | ı |
|-------------|---|
|-------------|---|

| Total risk exposure amount                               | 41,797 |
|--|--------|
| Institution-specific countercyclical buffer, %           | 1.98   |
| Institution-specific countercyclical buffer requirements | 829    |

#### 5.3 Own funds

SBAB's own funds comprise equity as well as additional Tier 1 capital and Tier 2 capital consisting of subordinated loans. SBAB's own funds amounted to SEK 19,890 million at 31 December 2017. Over the year, CET1 capital was affected by the fact that net profit/loss for the period was added and the estimated dividend deducted, in accordance with SBAB's dividend policy. The surplus has been verified by the company's auditors, in accordance with Article 26, item 2, of the CRR.

According to Article 35 of the CRR, the institution shall, except in the case of the items referred to in Article 33, not make adjustments to remove from own funds unrealised gains or losses on assets or liabilities recognised at fair value. According to this Article, SEK 189 million have been added to CET1 capital.

According to Article 33, item 1, of the CRR, the part of the fair-value reserves related to gains or losses on cash-flow hedges of financial instruments that are not valued at fair value, including

projected cash flows, is not to be included in own funds. The CET1 capital has been adjusted for cash-flow hedges amounting to negative SEK 9 million.

Changes in fair value that depend on the institution's own credit standing and that are related to derivatives had a negative impact of SEK 17 million on CET1 capital, in accordance with Article 33, item 1b.

With reference to Articles 34 and 105 of the CRR, SEK 62 million has been deducted due to the requirements for prudent valuation.

A deduction of SEK 83 million was made for intangible assets. This has decreased since 2016 as a result of Booli no longer being included in the consolidated situation. A deduction of SEK 29 million for net provisions was made in accordance with Article 36. No addition for an IRB surplus, under Article 62, item d, impacted own funds in 2017.

No risk exposures have been deducted from own funds.

#### Disclosure of own funds during a transitional period

Disclosures in accordance with Article 5 of Commission Implementing Regulation (EU) No 1423/2013. No amounts are subject

to the provisions preceding the CRR or the prescribed residual amount according to the same regulation.

#### TABLE 7. OWN FUNDS

| CET1 capital instruments: Instruments and reserves  | 2017                                     | 2016                                     |
|---|--|--|
| CETT cupitul instruments; instruments and reserves  |  |  |
| Capital instruments and the related share premium accounts  | 1,958                                    | 1,958                                    |
| Retained earnings   | 10,452                                   | 9,592                                    |
| Accumulated other comprehensive income (and other reserves, to include unrealised gains and losses under the applicable accounting  | 189                                      | 662                                      |
| standards) Additional Tier 1 instruments  | 1,500                                    | 1,500                                    |
| Independently verified interim profits net of any foreseeable charge or dividend  | 1,026                                    | 942                                      |
| CET1 capital before regulatory adjustments  | 15,125                                   | 14,654                                   |
|   | 10,120                                   | 1-1,00-1                                 |
| CET1 capital: Regulatory adjustments  | -62                                      | -67                                      |
| Additional value adjustments (negative amount)  | -83                                      | -142                                     |
| Intangible assets (net of related tax liability) (negative amount)  Fair value reserves related to gains or losses on cash-flow hedges  | 9  | -526                                     |
| Negative amounts resulting from the calculation of expected loss amounts  | -29                                      | -320                                     |
| Gains or losses on liabilities valued at fair value resulting from changes in own credit standing   | -17                                      | -31                                      |
| Additional Tier 1 instruments in equity   | -1,500                                   | -1,500                                   |
| Total regulatory adjustments to CET1 capital  | -1,682                                   | -2,269                                   |
| CET1 capital  | 13,443                                   | 12,385                                   |
| · ·   | 10,445                                   | 12,505                                   |
| Additional Tier 1 capital: Instruments  | 7 000                                    | 7 000                                    |
| Capital instruments and the related share premium accounts  | 3,000<br>1,500                           | 3,000<br>1,500                           |
| of which: classified as equity under applicable accounting standards  of which, classified as liabilities under applicable accounting standards   | 1,500                                    | 1,500                                    |
| Amount of qualifying items referred to in Article 484(4) and the related share premium accounts subject to phase out from Additional  | 1,300                                    | 1,500                                    |
| Tier 1 capital  | _  | _  |
| Additional Tier 1 capital before regulatory adjustments   | 3,000                                    | 3,000                                    |
| Additional Tier 1 capital: Regulatory adjustments   |  |  |
| Total regulatory adjustments to Additional Tier 1 capital   | _  | _  |
| Additional Tier 1 capital   | 3,000                                    | 3,000                                    |
| Tier 1 capital (Tier 1 capital=CET1 + Additional Tier 1 capital)  | 16,443                                   | 15,385                                   |
|   | ,  | .,                                       |
| Tier 2 capital: Instruments and provisions  Capital instruments and the related share premium accounts  | 3,447                                    | 4,447                                    |
| Credit risk adjustments   | 5,447                                    | 1  |
| Tier 2 capital before regulatory adjustments  | 3,447                                    | 4,448                                    |
|   | 0,447                                    | -1,-1-10                                 |
| Tier 2 capital: Regulatory adjustments  |  |  |
| Total regulatory adjustments to Tier 2 capital  | 7 447                                    | - 4 440                                  |
| Tier 2 capital  | 3,447                                    | 4,448                                    |
| Total capital (Total capital=Tier 1 capital + Tier 2 capital)  Total risk-weighted assets   | 19,890<br>41,797                         | 19,833<br>38,413                         |
| lotal risk-weighted assets  | 41,777                                   | 30,413                                   |
|   | 32.2                                     | 32.2                                     |
| •   |  |  |
| CET1 capital (as a percentage of total risk-weighted exposure amount), %  |  |  |
| CET1 capital (as a percentage of total risk-weighted exposure amount), %  Tier 1 capital (as a percentage of total risk-weighted exposure amount), %  | 39.3                                     | 40.1                                     |
| CET1 capital (as a percentage of total risk-weighted exposure amount), %  Tier 1 capital (as a percentage of total risk-weighted exposure amount), %  Total capital (as a percentage of total risk-weighted exposure amount), %   |  | 40.1                                     |
| Tier 1 capital (as a percentage of total risk-weighted exposure amount), %  Total capital (as a percentage of total risk-weighted exposure amount), %  Institution-specific buffer requirements (CET1 capital requirement in accordance with Article 92(1)(a) plus the capital conservation buffer and countercyclical capital buffer requirements, plus the systemic risk buffer, plus the systemically important institution buffers  | 39.3<br>47.6                             | 40.1<br>51.6                             |
| CET1 capital (as a percentage of total risk-weighted exposure amount), %  Tier 1 capital (as a percentage of total risk-weighted exposure amount), %  Total capital (as a percentage of total risk-weighted exposure amount), %  Institution-specific buffer requirements (CET1 capital requirement in accordance with Article 92(1)(a) plus the capital conservation buffer and countercyclical capital buffer requirements, plus the systemic risk buffer, plus the systemically important institution buffers (G-SII buffer and O-SII buffer) expressed as a percentage of the risk-weighted exposure amount, %  | 39.3<br>47.6<br>9.0                      | 40.1<br>51.6<br>8.5                      |
| CET1 capital (as a percentage of total risk-weighted exposure amount), %  Tier 1 capital (as a percentage of total risk-weighted exposure amount), %  Total capital (as a percentage of total risk-weighted exposure amount), %  Institution-specific buffer requirements (CET1 capital requirement in accordance with Article 92(1)(a) plus the capital conservation buffer and countercyclical capital buffer requirements, plus the systemic risk buffer, plus the systemically important institution buffers (G-SII buffer and O-SII buffer) expressed as a percentage of the risk-weighted exposure amount, %  of which, CET1 capital, minimum requirement, %  | 39.3<br>47.6<br>9.0<br>4.5               | 40.1<br>51.6<br>8.5<br>4.5               |
| CET1 capital (as a percentage of total risk-weighted exposure amount), %  Tier 1 capital (as a percentage of total risk-weighted exposure amount), %  Total capital (as a percentage of total risk-weighted exposure amount), %  Institution-specific buffer requirements (CET1 capital requirement in accordance with Article 92(1)(a) plus the capital conservation buffer and countercyclical capital buffer requirements, plus the systemic risk buffer, plus the systemically important institution buffers (G-SII buffer and O-SII buffer) expressed as a percentage of the risk-weighted exposure amount, %  of which, CET1 capital, minimum requirement, %  of which, capital conservation buffer requirement, %  | 39.3<br>47.6<br>9.0<br>4.5<br>2.5        | 40.1<br>51.6<br>8.5<br>4.5<br>2.5        |
| CET1 capital (as a percentage of total risk-weighted exposure amount), %  Tier 1 capital (as a percentage of total risk-weighted exposure amount), %  Total capital (as a percentage of total risk-weighted exposure amount), %  Institution-specific buffer requirements (CET1 capital requirement in accordance with Article 92(1)(a) plus the capital conservation buffer and countercyclical capital buffer requirements, plus the systemic risk buffer, plus the systemically important institution buffers (G-SII buffer and O-SII buffer) expressed as a percentage of the risk-weighted exposure amount, %  of which, CET1 capital, minimum requirement, %  of which, capital conservation buffer requirement, %  of which, countercyclical buffer requirement, %   | 39.3<br>47.6<br>9.0<br>4.5               | 40.1<br>51.6<br>8.5<br>4.5<br>2.5        |
| CET1 capital (as a percentage of total risk-weighted exposure amount), %  Tier 1 capital (as a percentage of total risk-weighted exposure amount), %  Total capital (as a percentage of total risk-weighted exposure amount), %  Institution-specific buffer requirements (CET1 capital requirement in accordance with Article 92(1)(a) plus the capital conservation buffer and countercyclical capital buffer requirements, plus the systemic risk buffer, plus the systemically important institution buffers (G-SII buffer and O-SII buffer) expressed as a percentage of the risk-weighted exposure amount, %  of which, CET1 capital, minimum requirement, %  of which, capital conservation buffer requirement, %  of which, countercyclical buffer requirement, %  of which, systemic risk buffer requirement, %  | 39.3<br>47.6<br>9.0<br>4.5<br>2.5<br>2.0 | 40.1<br>51.6<br>8.5<br>4.5<br>2.5<br>1.5 |
| CET1 capital (as a percentage of total risk-weighted exposure amount), %  Tier 1 capital (as a percentage of total risk-weighted exposure amount), %  Total capital (as a percentage of total risk-weighted exposure amount), %  Institution-specific buffer requirements (CET1 capital requirement in accordance with Article 92(1)(a) plus the capital conservation buffer and countercyclical capital buffer requirements, plus the systemic risk buffer, plus the systemically important institution buffers (G-SII buffer and O-SII buffer) expressed as a percentage of the risk-weighted exposure amount, %  of which, CET1 capital, minimum requirement, %  of which, capital conservation buffer requirement, %  of which, systemic risk buffer requirement, %  of which, G-SII buffer and O-SII buffer, %   | 39.3<br>47.6<br>9.0<br>4.5<br>2.5<br>2.0 | 40.1<br>51.6<br>8.5<br>4.5<br>2.5<br>1.5 |
| CET1 capital (as a percentage of total risk-weighted exposure amount), %  Tier 1 capital (as a percentage of total risk-weighted exposure amount), %  Total capital (as a percentage of total risk-weighted exposure amount), %  Institution-specific buffer requirements (CET1 capital requirement in accordance with Article 92(1)(a) plus the capital conservation buffer and countercyclical capital buffer requirements, plus the systemic risk buffer, plus the systemically important institution buffers (G-SII buffer and O-SII buffer) expressed as a percentage of the risk-weighted exposure amount, %  of which, CET1 capital, minimum requirement, %  of which, capital conservation buffer requirement, %  of which, systemic risk buffer requirement, %  of which, systemic risk buffer requirement, %  of which, G-SII buffer and O-SII buffer, %  CET1 capital available to meet buffers (as a share of risk-weighted exposure amounts, %)  | 39.3<br>47.6<br>9.0<br>4.5<br>2.5<br>2.0 | 40.1<br>51.6<br>8.5<br>4.5<br>2.5<br>1.5 |
| CET1 capital (as a percentage of total risk-weighted exposure amount), %  Tier 1 capital (as a percentage of total risk-weighted exposure amount), %  Total capital (as a percentage of total risk-weighted exposure amount), %  Institution-specific buffer requirements (CET1 capital requirement in accordance with Article 92(1)(a) plus the capital conservation buffer and countercyclical capital buffer requirements, plus the systemic risk buffer, plus the systemically important institution buffers (G-SII buffer and O-SII buffer) expressed as a percentage of the risk-weighted exposure amount, %  of which, CET1 capital, minimum requirement, %  of which, capital conservation buffer requirement, %  of which, countercyclical buffer requirement, %  of which, systemic risk buffer requirement, %  | 39.3<br>47.6<br>9.0<br>4.5<br>2.5<br>2.0 | 40.1<br>51.6<br>8.5<br>4.5<br>2.5<br>1.5 |
| CET1 capital (as a percentage of total risk-weighted exposure amount), %  Tier 1 capital (as a percentage of total risk-weighted exposure amount), %  Total capital (as a percentage of total risk-weighted exposure amount), %  Institution-specific buffer requirements (CET1 capital requirement in accordance with Article 92(1)(a) plus the capital conservation buffer and countercyclical capital buffer requirements, plus the systemic risk buffer, plus the systemically important institution buffers (G-SII buffer and O-SII buffer) expressed as a percentage of the risk-weighted exposure amount, %  of which, CET1 capital, minimum requirement, %  of which, capital conservation buffer requirement, %  of which, systemic risk buffer requirement, %  of which, G-SII buffer and O-SII buffer, %  CET1 capital available to meet buffers (as a share of risk-weighted exposure amounts, %)  Capital instruments subject to phase-out arrangements (only applicable   | 39.3<br>47.6<br>9.0<br>4.5<br>2.5<br>2.0 | 40.1<br>51.6<br>8.5<br>4.5<br>2.5<br>1.5 |
| CET1 capital (as a percentage of total risk-weighted exposure amount), %  Tier 1 capital (as a percentage of total risk-weighted exposure amount), %  Total capital (as a percentage of total risk-weighted exposure amount), %  Institution-specific buffer requirements (CET1 capital requirement in accordance with Article 92(1)(a) plus the capital conservation buffer and countercyclical capital buffer requirements, plus the systemic risk buffer, plus the systemically important institution buffers (G-SII buffer and O-SII buffer) expressed as a percentage of the risk-weighted exposure amount, %  of which, CET1 capital, minimum requirement, %  of which, capital conservation buffer requirement, %  of which, systemic risk buffer requirement, %  of which, systemic risk buffer requirement, %  of which, G-SII buffer and O-SII buffer, %  CET1 capital available to meet buffers (as a share of risk-weighted exposure amounts, %)  Capital instruments subject to phase-out arrangements (only applicable between 1 January 2013 and 1 January 2022) | 39.3<br>47.6<br>9.0<br>4.5<br>2.5<br>2.0 | 40.1<br>51.6<br>8.5<br>4.5<br>2.5<br>1.5 |

There are no ongoing or foreseen material obstacles or other legal barriers to a rapid transfer of funds from own funds other than what is stipulated in the terms and conditions governing subordinated loans (see Note 29 in SBAB's Annual Report for 2017) or what generally applies under the Companies Act (2005:551).

The starting capital required for the Parent Company in accordance with the Act on Banking and Financing Activities (2004:297) totalled SEK 45.9 million. The corresponding capital requirement for SCBC amounted to SEK 47.0 million.

TABLE 8. CAPITAL ADEQUACY

|  | CONSOLIDATE | IN CITUATION | PARENT CO    | DMDANIV | SCBC    |         |  |
|--|-------------|--------------|--------------|---------|---------|---------|--|
|  |             |              | - FAREIVI CO |         |         |         |  |
| SEK million                            | 2017        | 2016         | 2017         | 2016    | 2017    | 2016    |  |
| CET1 capital                           | 13,443      | 12,385       | 7,127        | 7,708   | 16,710  | 15,162  |  |
| Tier 1 capital                         | 16,443      | 15,385       | 10,127       | 10,708  | 16,710  | 15,162  |  |
| Total capital                          | 19,890      | 19,833       | 13,574       | 15,157  | 16,710  | 15,165  |  |
| Without transitional rules             |             |              |              |         |         |         |  |
| Risk exposure amount                   | 41,797      | 38,413       | 31,776       | 31,484  | 21,422  | 18,402  |  |
| CET1 capital ratio, %                  | 32.2        | 32.2         | 22.4         | 24.5    | 78.0    | 82.4    |  |
| Excess <sup>1)</sup> of CET1 capital   | 11,563      | 10,656       | 5,697        | 6,292   | 15,746  | 14,334  |  |
| Tier 1 capital ratio, %                | 39.3        | 40.1         | 31.9         | 34.0    | 78.0    | 82.4    |  |
| Excess <sup>1)</sup> of Tier 1 capital | 13,936      | 13,080       | 8,221        | 8,819   | 15,424  | 14,058  |  |
| Total capital ratio, %                 | 47.6        | 51.6         | 42.7         | 48.1    | 78.0    | 82.4    |  |
| Excess <sup>1)</sup> of total capital  | 16,547      | 16,760       | 11,032       | 12,639  | 14,996  | 13,693  |  |
| With transitional rules                |             |              |              |         |         |         |  |
| Own funds                              | 19,920      | 19,835       | 13,602       | 15,162  | 16,711  | 15,162  |  |
| Risk exposure amount                   | 192,993     | 168,936      | 28,744       | 35,833  | 172,527 | 133,171 |  |
| Total capital ratio, %                 | 10.3        | 11.7         | 47.3         | 42.3    | 9.7     | 11.4    |  |

 $<sup>^{1)}</sup>$  Excess capital has been calculated based on minimum capital requirements (without buffer requirements).

#### 5.3.1 Subordinated loans

The subordinated loans are subordinate to the Parent Company's other liabilities, and the subordinated loans included in Tier 1 capital are subordinate to other subordinated loans. For a specification of own funds and the terms and conditions for

subordinated loans in accordance with Commission Implementing Regulation (EU) No 1423/2013, please refer to the information under "Capital adequacy & risk management" at www.sbab. se. The complete terms and conditions of the subordinated loans are also specified at www.sbab.se.

TABLE 9. SUBORDINATED LOANS, SEK million

| ISIN         | Cur-<br>rency | Nominal<br>amount | Nominal<br>amount out-<br>standing | First possible<br>redemption<br>date | Interest rate, % | Interest rate after<br>first possible<br>redemption date, % | Maturity date | Taken up in<br>own funds as<br>Additional<br>Tier 1 capital | Taken up in<br>own funds as<br>Tier 2 capital |
|--------------|---------------|-------------------|------------------------------------|--------------------------------------|------------------|---|---------------|---|---|
| XS1202975386 | SEK           | 400               | 400                                | 16 Mar 2020                          | 3.8245           | 3m STIBOR +3.25   | Perpetual     | 400   | -   |
| XS1202987985 | SEK           | 1,100             | 1,100                              | 16 Mar 2020                          | 3m STIBOR +3.25  | 3m STIBOR +3.25   | Perpetual     | 1,100   | -   |
| XS1245415812 | SEK           | 1,000             | 1,000                              | 11 Jun 2020                          | 3m STIBOR +1.30  | 3m STIBOR +1.30   | 2025-06-11    | -   | 1,000   |
| XS1317715842 | SEK           | 600               | 600                                | 10 Nov 2020                          | 2.25             | 3m STIBOR +1.90   | 10 Nov 2025   | -   | 597   |
| XS1317716147 | SEK           | 1,850             | 1,850                              | 10 Nov 2020                          | 3m STIBOR +1.90  | 3m STIBOR +1.90   | 10 Nov 2025   | -   | 1,850   |
| XS1412406503 | SEK           | 775               | 775                                | 21 Jun 2021                          | 5.052            | 3m STIBOR +4.75   | Perpetual     | 775   | -   |
| XS1412408897 | SEK           | 725               | 725                                | 2021-06-21                           | 3m STIBOR +4.75  | 3m STIBOR +4.75   | Perpetual     | 725   | -   |
| Total        |               | 6,450             | 6,450                              |                                      |                  |   |               | 3,000   | 3,447   |

#### 5.4 Regulatory capital requirement

When calculating capital requirements, each exposure is allocated to an exposure class, either using the standardised or the IRB approach. Table 11 shows the individual risk exposure amounts distributed by exposure class.

The capital requirements for credit risk at SBAB rose over the year due to increased credit volumes. Over the year, the capital requirement for market risk declined due to the liquidity portfolio largely being transferred from the trading book to the banking book.

TABLE 10. RISK EXPOSURE AMOUNTS AND CAPITAL REQUIREMENTS BY RISK TYPE (EBA OV1 TABLE)

|  | Risk expos | ure amount | Minimum capital requirement |        |  |  |
|--|------------|------------|-----------------------------|--------|--|--|
| SEK million                                      | 2017       | 2016       | 2017                        | 2016   |  |  |
| Credit risk (excl. counterparty risk)            | 31,644     | 29,455     | 2,532                       | 2,356  |  |  |
| of which, the standardised approach              | 6,917      | 5,909      | 554                         | 472    |  |  |
| of which, the FIRB approach                      | 12,258     | 12,106     | 981                         | 969    |  |  |
| of which, the AIRB approach                      | 12,469     | 11,440     | 997                         | 915    |  |  |
| Counterparty risk                                | 4,850      | 3,753      | 388                         | 300    |  |  |
| of which, the standardised approach              | 2,592      | 1,907      | 207                         | 152    |  |  |
| of which, credit valuation adjustment (CVA) risk | 2,258      | 1,846      | 181                         | 148    |  |  |
| Market risk                                      | 1,159      | 1,571      | 93                          | 126    |  |  |
| of which, the standardised approach              | 1,159      | 1,571      | 93                          | 126    |  |  |
| Operational risks                                | 4,144      | 3,634      | 331                         | 291    |  |  |
| of which, the standardised approach              | 4,144      | 3,634      | 331                         | 291    |  |  |
| Adjustment for the Basel 1 floor                 |            |            | 12,096                      | 10,442 |  |  |
| Total  | 41,797     | 38,413     | 15,439                      | 13,515 |  |  |

TABLE 11. RISK EXPOSURE AMOUNTS AND CAPITAL REQUIREMENTS

| SEK million  | Risk exposure amount<br>2017 | Minimum capi-<br>tal requirement<br>2017 | Risk exposure amount<br>2016 | Minimum capi-<br>tal requirement<br>2016 |
|--|------------------------------|--|------------------------------|--|
| Credit risk recognised in accordance with IRB approach   |                              |  |                              |  |
| Exposures to corporates  | 12,258                       | 981                                      | 12,106                       | 968                                      |
| Retail exposures   | 12,469                       | 997                                      | 11,440                       | 915                                      |
| of which, exposures to SMEs  | 1,160                        | 93                                       | 1,211                        | 97                                       |
| of which, retail exposures secured by immovable property   | 11,309                       | 904                                      | 10,229                       | 818                                      |
| Total exposures recognised with the IRB approach   | 24,727                       | 1,978                                    | 23,546                       | 1,884                                    |
| Credit risk recognised with the standardised approach Exposures to governments and central banks | 0                            | 0  | 0                            | 0  |
| Exposures to regional governments or local authorities or agencies                               | 0                            | 0  | 0                            | 0  |
| Exposures to multilateral development banks  | 0                            | 0  | 0                            | 0  |
| Exposures to institutions  | 2,593                        | 207                                      | 1,907                        | 152                                      |
| of which, derivatives according to CRR, Appendix 2   | 2,583                        | 206                                      | 1,903                        | 152                                      |
| of which, repos  | 9                            | 1  | 3                            | 0  |
| of which, other  | 1                            | 0  | 1                            | 0  |
| Exposures to corporates  | -                            | -  | -                            | _  |
| Retail exposures   | 2,193                        | 175                                      | 1,933                        | 155                                      |
| Exposures in default   | 11                           | 1  | 12                           | 1  |
| Exposures in the form of covered bonds   | 3,282                        | 263                                      | 3,384                        | 271                                      |
| Exposures to institutions and corporates with a short-term credit rating                         | 21                           | 2  | 19                           | 1  |
| Equity exposures   | 1,078                        | 86                                       | -                            | _  |
| Other items  | 331                          | 27                                       | 561                          | 44                                       |
| Total exposures recognised with standardised approach  | 9,509                        | 761                                      | 7,816                        | 624                                      |
| Market risk  | 1,159                        | 93                                       | 1,571                        | 126                                      |
| of which, position risk  | 413                          | 33                                       | 886                          | 71                                       |
| of which, currency risk  | 746                          | 60                                       | 685                          | 55                                       |
| Operational risk   | 4,144                        | 331                                      | 3,634                        | 291                                      |
| Credit valuation adjustment risk   | 2,258                        | 181                                      | 1,846                        | 148                                      |
| Total risk exposure amount and minimum capital requirements                                      | 41,797                       | 3,344                                    | 38,413                       | 3,073                                    |
| Capital requirements for capital conservation buffer   |                              | 1,045                                    |                              | 960                                      |
| Capital requirements for countercyclical buffer  |                              | 829                                      |                              | 571                                      |
| Total capital requirements   |                              | 5,218                                    |                              | 4,604                                    |

TABLE 12. BREAKDOWN OF NET EXPOSURE AMOUNTS USING THE STANDARDISED APPROACH BY EXPOSURE CLASS AND RISK WEIGHT AFTER APPLICATION OF THE CCF AND CREDIT RISK MITIGATION (CRM)

(EBA CR5 TABLE)

| Exposure class, SEK million  | 0%     | 10%    | 20%   | 50%   | 75%   | 100% | 150% | 1,250% | Deduction <sup>2)</sup> | Total  | Of which,<br>unrated |
|--|--------|--------|-------|-------|-------|------|------|--------|-------------------------|--------|----------------------|
| Exposures to governments and central banks                               | 17,915 |        | -     | _     | _     | -    | _    | _      |                         | 17,915 |                      |
| Exposures to regional governments or local authorities or agencies       | 8,903  | -      | -     | -     | _     | -    | -    | -      | _                       | 8,903  | _                    |
| Exposures to multilateral development banks                              | 1,787  | _      | _     |       |       | _    | _    | 1,787  | _                       |        |                      |
| Exposures to institutions <sup>1)</sup>                                  | 0      | -      | 1,595 | 4,547 | -     | -    | -    | -      | -                       | 6,142  | 2                    |
| Exposures to corporates  | _      | -      | -     | -     | -     | -    | -    | -      | _                       | 0      | -                    |
| Retail exposures   | _      | -      | _     | -     | 2,924 | -    | -    | -      | _                       | 2,924  | 2,924                |
| Exposures in default   | _      | -      | -     | -     | -     | 7    | 3    | -      | _                       | 10     | 10                   |
| Exposures in the form of covered bonds                                   | -      | 32,817 | _     | _     | -     | -    | _    | -      | -                       | 32,817 | _                    |
| Exposures to institutions and corporates with a short-term credit rating | _      | -      | 107   | -     | _     | -    | _    | -      | _                       | 107    | _                    |
| Equity exposures   | -      | -      | -     | -     | -     | _    | -    | 86     | _                       | 86     | 86                   |
| Other items  | 99     | _      | -     | _     | -     | 331  | -    | -      | _                       | 430    | 430                  |
| Total  | 28,704 | 32,817 | 1,702 | 4,547 | 2,924 | 338  | 3    | 86     | -                       | 71,121 | 3,452                |

Of which,

TABLE 13. EXPOSURE AMOUNTS AND CAPITAL REQUIREMENTS BASED ON THE BALANCE SHEET<sup>1)</sup>

| Balance sheet, SEK million   | Balance<br>sheet<br>assets | Exposure<br>before CCF | Exposure<br>after CCF | Of which,<br>credit risk<br>expo-<br>sures <sup>2)</sup> | Of which,<br>counter-<br>party expo-<br>sures <sup>2)</sup> | Of which,<br>market risk<br>exposures <sup>2)</sup> |   | Risk<br>exposure<br>amounts<br>before SME<br>discount | Risk<br>exposure<br>amounts after<br>SME discount | Capital<br>requirement |
|--|----------------------------|------------------------|-----------------------|--|---|---|---|---|---|------------------------|
| Assets   |                            |                        |                       |  |   |   |   |   |   |                        |
| Cash and balances at central banks                                   | 0                          | 0                      | 0                     | 0  | -   | -   | _ | 0   | 0   | 0                      |
| Chargeable treasury bills, etc.                                      | 22,952                     | 22,952                 | 22,952                | 17,566   | -   | 5,386   | - | 0   | 0   | 0                      |
| Lending to credit institutions                                       | 1,858                      | 674                    | 674                   | 108  | 66  | 500   | - | 31  | 31  | 3                      |
| Lending to the public  | 335,111                    | 335,486                | 335,472               | 335,472  | -   | -   | - | 25,694  | 24,745  | 1,980                  |
| Change in value of interest-<br>rate-hedged items in macro<br>hedges | 191                        | 191                    | 191                   | 191  | -   | _   | - | 191   | 191   | 15                     |
| Bonds and other interest-<br>bearing securities                      | 49,764                     | 49,764                 | 49,764                | 42,339   | -   | 7,425   | - | 4,402   | 4,402   | 352                    |
| Derivatives  | 5,830                      | 6,114                  | 6,114                 |  | 6,114   | _   | - | 2,583   | 2,583   | 207                    |
| Shares and participations in Group companies                         | 86                         | 86                     | 86                    | 86   | -   | -   | _ | 1,078   | 1,078   | 86                     |
| Intangible assets  | 99                         | 99                     | 99                    | 99   | -   | -   | - | -   | -   | _                      |
| Property, plant and equipment  | 12                         | 12                     | 12                    | 12   | -   | -   | _ | 12  | 12  | 1                      |
| Other assets   | 60                         | 57                     | 57                    | 57   | -   | _   | - | 58  | 58  | 5                      |
| Prepaid expenses and accrued income                                  | 816                        | 631                    | 631                   | 511  | -   | 120   | _ | 54  | 54  | 4                      |
| Total  | 416,779                    | 416,066                | 416,052               | 396,441  | 6,180   | 13,431  | _ | 34,103  | 33,154  | 2,653                  |
| Contingent liabilities   | 43,757                     | 43,757                 | 14,615                | 14,615   | -   | -   | - | 2,244   | 2,241   | 179                    |
| Total  | 460,536                    | 459,823                | 430,667               | 411,056  | 6,180   | 13,431  | _ | 36,347  | 35,395  | 2,832                  |

 $<sup>^{1)}\,\</sup>mathrm{The}\,\mathrm{table}\,\mathrm{does}\,\mathrm{not}\,\mathrm{include}\,\mathrm{operational}\,\mathrm{risk}\,\mathrm{or}\,\mathrm{CVA}\,\mathrm{risk}.$ 

 $<sup>^{1)}\,\</sup>mbox{The calculation includes counterparty risk.}$ 

<sup>2)</sup> The exposure class, "other items" includes those items deducted from own funds. Capital adequacy for these is calculated with a risk weight of 0%.

<sup>2)</sup> The framework for counterparty risk and market risk encompasses REAs from derivatives and repos under Pillar 1. REAs for bonds are encompassed by the framework for market risk and credit risk under Pillar 1, allocated over the bond holdings in the trading book and the banking book respectively.

 $<sup>^{3)}</sup>$  The exposure class, "other items" includes those items deducted from own funds. Capital adequacy for these is calculated with a risk weight of 0%.

TABLE 14. DIFFERENCES BETWEEN BALANCE SHEET ASSETS AND EXPOSURE AMOUNTS FOR CAPITAL ADEQUACY CALCULATION

|   |         |                | Of which:                          |                 |                           |  |  |  |  |
|---|---------|----------------|------------------------------------|-----------------|---------------------------|--|--|--|--|
| SEK million   | Total   | Credit risk 1) | Counterparty<br>risk <sup>1)</sup> | Securitizations | Market risk <sup>1)</sup> |  |  |  |  |
| Balance sheet assets (consolidated situation)   | 416,779 | 396,265        | 7,083                              | -               | 13,431                    |  |  |  |  |
| Balance sheet liabilities   | 7,317   | _              | 7,317                              | -               | -                         |  |  |  |  |
| Net assets after deduction of liabilities   | 409,462 | 396,265        | -234                               | _               | 13,431                    |  |  |  |  |
| Contingent liabilities  | 43,757  | 43,757         | -                                  | -               | _                         |  |  |  |  |
| Differences due to different netting rules, other than those already included in row $\boldsymbol{2}$ | 6,414   | -              | 6,414                              | _               | _                         |  |  |  |  |
| Differences in provisions   | 176     | 176            | -                                  | -               | _                         |  |  |  |  |
| Valuation differences (measurement of contingent liabilities)   | -29,142 | -29,142        | -                                  | -               | _                         |  |  |  |  |
| Original exposure amounts considered for capital adequacy purposes (after CCF)                        | 430,667 | 411,056        | 6,180                              | _               | 13,431                    |  |  |  |  |

<sup>1)</sup> The framework for counterparty risk and market risk encompasses REAs from derivatives and repos under Pillar 1. REAs for bonds are encompassed by the framework for market risk and credit risk under Pillar 1, allocated over the bond holdings in the trading book and the banking book respectively.

#### 5.5 Credit risk mitigation techniques

Credit-risk mitigation used for IRB exposures consists of government and municipal guarantees. These are recognised using the standardised approach for credit risk. Furthermore, SEK 40 mil-

lion of financial securities have been used for credit-risk mitigation measures for exposures for which standardised approaches have been applied.

TABLE 15. CREDIT-RISK EXPOSURES AND CREDIT RISK MITIGATION (CRM) USING THE STANDARDISED APPROACH (EBA CR4 TABLE)

|  | before CCFs     | posure amount<br>and credit risk<br>gation methods | afte            | posure amount<br>r CCFs and risk<br>gation methods | REAs and risk exposure density |                |  |
|--|-----------------|--|-----------------|--|--------------------------------|----------------|--|
| Exposure class, SEK million  | Carrying amount | Contingent<br>liabilities                          | Carrying amount | Contingent<br>liabilities                          | REA                            | Density<br>(%) |  |
| Exposures to governments and central banks                               | 17,853          |  | 17,915          | -  |                                | -              |  |
| Exposures to regional governments or local authorities or agencies       | 7,944           | _  | 8,902           | -  | -                              | -              |  |
| Exposures to multilateral development banks                              | 1,787           | _  | 1,787           | -  | -                              | _              |  |
| Exposures to institutions  | 3               | -  | 3               | _  | 1                              | 33             |  |
| Exposures to corporates  | -               | _  | _               | _  | -                              | _              |  |
| Retail exposures   | 2,712           | 1,059  | 2,712           | 212  | 2,193                          | 75             |  |
| Exposures in default   | 10              | _  | 10              | _  | 11                             | 117            |  |
| Exposures in the form of covered bonds                                   | 32,817          | _  | 32,817          | -  | 3,282                          | 10             |  |
| Exposures to institutions and corporates with a short-term credit rating | 107             | _  | 107             | -  | 21                             | 20             |  |
| Equity exposures   | 86              | -  | 86              | -  | 1,078                          | 1,250          |  |
| Other items  | 430             | -  | 430             | -  | 331                            | 77             |  |
| Total  | 63,749          | 1,059  | 64.769          | 212  | 6,917                          | 11             |  |

 $<sup>^{1)}\, \</sup>text{The}$  institution exposure class excludes counterparty risk.

TABLE 16. EXPOSURE AMOUNTS BEFORE AND AFTER CREDIT RISK MITIGATION BY CREDIT QUALITY STEP

| Credit quality step,<br>SEK million | Exposure<br>amount before<br>credit risk<br>mitigation<br>measures | Exposure<br>amount after<br>credit risk<br>mitigation<br>measures |
|-------------------------------------|--|---|
| 1                                   | 63,121   | 63,081  |
| 2                                   | 4,451  | 4,451   |
| 3                                   | 97   | 97  |
| 4                                   | _  | -   |
| 5                                   | -  | -   |
| 6                                   |  | _   |
| Total                               | 67,669   | 67,629  |

TABLE 17. CREDIT RISK MITIGATION TECHNIQUES (EBA CR3 TABLE)

| SEK million                  | Unsecured<br>exposures –<br>carrying amount | Secured<br>exposures –<br>carrying amount | Exposures<br>secured by<br>collateral | Exposures<br>secured by<br>financial<br>guarantees | Exposures<br>secured<br>by credit<br>derivatives |
|------------------------------|---|---|---------------------------------------|--|--|
| Total – loans                | 12,065                                      | 323,175                                   | 322,262                               | 913  |  |
| Total – interest-<br>bearing |   |   |                                       |  |  |
| securities                   | 0   | _   | -                                     | -  | _  |
| Total exposures              | 12,065                                      | 323,175                                   | 322,262                               | 913  | _  |
| Of which, in default         | 12  | 379                                       | 379                                   | 0  | _  |

#### 5.6 Securitised assets

The SBAB Group has no securitised loans of its own and has not contributed to any other institution's securitisation.

SBAB has no overdue exposures in respect of securitisations and no re-securitisations, and no securitised rolling exposures.

#### 5.7 Rating

From 2017, SBAB uses ratings from all three approved rating agencies: Moody's, Standard & Poor, and Fitch.

When external ratings are used, the two lowest ratings from Moody's, Fitch or Standard & Poor's is selected. External ratings are used for exposures to governments and central banks, regional governments or local authorities and agencies, multilateral development banks, institutions, institutions and corporates with a short-term credit rating, and exposures in the form of covered bonds. The association of the external rating provided by credit rating agencies with the credit quality steps prescribed in the CRR complies with the standard association published by the EBA (refer to Table 22, Relationship between internal and external rating).

# **O INTERNALLY ASSESSED CAPITAL REQUIREMENT**

The internal capital adequacy assessment aims to ensure that SBAB has adequate capital under normal circumstances and in the event of financial problems. The Board of Directors and Executive Management are responsible for the internal capital adequacy assessment. Within the framework of the internal capital and liquidity adequacy assessment processes (ICLAAP), SBAB applies an economic capital model for its internally assessed capital requirement. At present, liquidity risk does not give rise to any actual capital requirement for SBAB. The ICLAAP is designed to ensure an equal balance between risks, capital and liquidity. Refer to Chapter 13 for more information on liquidity risk.

# 6.1 Internal capital adequacy assessment in line with Pillar 2 of the Basel regulations

Pillar 2 of the Basel 3 regulations imposes the requirement that the banks' management and assessment of risks must be satisfactory to ensure that the banks can fulfil their obligations. To meet this requirement, the banks must have methods that enable them to continuously evaluate and uphold capital in an amount, type and distribution sufficient to cover the risks to which they are or could become exposed.

This is called the internal capital and liquidity adequacy assessment process (ICLAAP).

The operations conducted by SBAB affect the size of the risk taken by the company, which in turn impacts the size and nature of the capital required to manage unforeseen losses. The size of the capital in turn affects the price of individual transactions for customers. The better SBAB can manage and assess the risk, the more accurately the scope of the capital utilised in the individual transaction can be assessed, thereby enabling the risk-adjusted return for the transaction to be calculated.

SBAB's internally assessed capital requirement comprises the minimum capital requirement under Pillar 1, the capital requirement under Pillar 2 and buffer requirements. The Pillar 2 capital requirement assesses the additional capital required, over and above Pillar 1, for the risks where a capital requirement has been identified in Pillar 2. This assessment is based on SBAB's economic capital model. If the economic capital for each risk class exceeds the capital requirement in Pillar 1, an additional amount applies under Pillar 2. The capital requirement under Pillar 2 also assesses risk classes not covered by Pillar 1. Moreover, a number of buffer requirements also apply. In addition to the buffer requirement under Pillar 1, SBAB calculates a capital planning buffer to cover any downgrade of the capital adequacy in the event of a severe but plausible financial stress.

When determining the size of the capital requirement, assessments of investors and rating agencies regarding the company's

capital requirements compared with the capital held by the company are also taken into account. The views of rating agencies are reflected in SBAB's rating, which directly impacts the company's funding cost.

The quality and utilisation of risk information are essential to SBAB's long-term competitiveness in the market. The purpose of the internal capital adequacy assessment process (ICAAP) is to ensure that the company identifies, measures, secures and manages the risks to which SBAB is exposed and that SBAB has own funds that are compatible with the selected risk appetite.

The process is revised annually to capture changes in the operating environment that continuously affect the company's performance.

# 6.2 Process for internal calculation of capital requirements

As part of SBAB's process for establishing internally calculated capital requirements, the risks generated in the operations are identified initially. Risk Control is responsible for the quantification of all risks. Various models are used depending on the risk to be measured. The economic capital model is used to calculate capital requirements for quantifiable risks.

SBAB uses stress tests to assess the impact on the capital requirement during a normal economic downturn and during a severe but plausible financial stress.

In addition to economic capital, capital buffers are reserved for capital requirements caused by stress tests and for pension risk, which are all included in the internal capital requirement. The combined results are followed up and analysed, for both short and long-term effects, in terms of capital planning and forecasts. The compiled results of the internal capital adequacy assessment are reported to the Board and CEO. Finally, the Board and CEO adopt the process and the results of the company's internal capital adequacy assessment.

FIGURE 5. INTERNAL CAPITAL ADEQUACY ASSESSMENT PROCESS

| 1<br>QUANTIFICATION<br>OF RISKS  | •• | QUANTIFICATION<br>AND ASSESSMENT<br>OF OTHER RISKS<br>(CAPITAL BUFFERS)   | •• | 3<br>ASSESSMENT OF<br>COMBINED INTER-<br>NAL CAPITAL<br>REQUIREMENTS   | •• | OWN FUNDS<br>(COMPARED WITH<br>CAPITAL POLICY<br>AND PLAN)                                      | •• | OPERATIONAL GOV-<br>ERNANCE AND<br>ALLOCATION OF<br>CAPITAL                                  | •• | 6<br>REPORTING   |
|--|----|---|----|--|----|---|----|--|----|--|
| <ul> <li>Credit risk</li> <li>Concentration risk</li> <li>Market risk</li> <li>Sovereign risk</li> <li>Operational risk</li> <li>Credit valuation adjustment<br/>(CVA) risk</li> <li>Pension risk</li> </ul> |    | <ul> <li>Stress test         <ul> <li>(business risk and capital planning buffer)</li> </ul> </li> <li>Other risks</li> </ul> |    | Comparison of economic capital and minimum capital requirements under Pillar 1 Aggregation of capital requirements for the various risks |    | <ul> <li>CET1 capital</li> <li>Additional Tier 1<br/>capital</li> <li>Tier 2 capital</li> </ul> |    | Risk-adjusted profitability Segment analysis and cost of capital Return on allocated capital |    | <ul> <li>Fulfilment of<br/>capital targets<br/>and combined<br/>internal capital<br/>requirements</li> <li>Internal reporting</li> <li>External reporting</li> </ul> |

#### 6.3 Internal capital adequacy assessment components

SBAB's internal assessment of the capital requirement takes into consideration the minimum requirements under Pillar 1, the Pillar 2 core requirement, the risk-weight floor for Swedish residential mortgages, buffer requirements, stress tests and the capital planning buffer. It is used to control and monitor profitability in the company's operations and for strategic considerations.

The capital requirements for credit risk, including concentration risk and sovereign risk, market risk, operational risk and CVA risk are quantified in SBAB's economic capital model. Economic capital for credit risk and market risk is defined as the amount of capital needed to ensure solvency over a one-year period, given a predetermined confidence interval. The confidence interval is chosen to reflect the company's target rating. In SBAB's case, the confidence level is 99.97%, which corresponds to the long-term AA- target rating (according to Standard & Poor's ratings scale).

In addition to the capital requirement quantified with SBAB's economic capital model, an additional capital requirement arises from the risk-weight floor for Swedish residential mortgages, pension risk, and any additions in the form of business risk and the capital planning buffer. Refer to Table 18 for the internally calculated capital requirements per risk type.

#### 6.3.1 Credit risk

Credit risk in lending operations is the dominant risk in SBAB's operations. Credit risk in lending operations is defined as the risk of loss due to the customer's or the counterparty's inability to make interest and loan repayments or otherwise fulfil the loan agreement. Lending is conducted to consumers, tenant-owners' associations and companies. Aside from through lending and loan commitments, credit risk also arises in treasury operations through derivative counterparties and through investment risk for investments in the liquidity portfolio.

#### 6.3.1.1 Credit risk in lending operations

In the economic capital model, credit risk is calculated using the Basel framework's formulas for capital requirements for credit risk. However, these have been modified by adding further safety margins to the required correlation assumptions applied. Moreover, the capital requirement is calculated to a confidence level of 99.97%, rather than to 99.9% as applied in the original for-

mula. However, in the economic capital calculation, which is the base for SBAB's risk-adjusted follow-up, the prescribed LGD floors of 10% and 15%, respectively, are not applied. This is because economic capital, in contrast to the IRB approach applied in the regulatory framework, should be sensitive to the LTV ratio for all exposures.

The formula applied by the Basel framework for calculating capital requirements under Pillar 1 does not take into account any concentration effects in the loan portfolio. In this model, the capital requirement for a single exposure is independent of the loan's portfolio and is based solely on PD, LGD and EAD for the specific exposure. Therefore a supplement for concentration risk must be made to quantify SBAB's compiled credit risk, including concentration risk.

# 6.3.1.2 Risk-weight floor for Swedish mortgages In September 2014, the Swedish FSA decided to raise the risk-

weight floor for Swedish residential mortgages to 25% from the previous 15%.

The floor is applied as a supervisory practice in internal capital adequacy assessment under Pillar 2 and consequently does not affect the capital ratios reported under Pillar 1. All of SBAB's capital requirements under Pillar 1 are included in the calculation of the capital requirement arising from the risk-weight floor for Swedish residential mortgages, including the countercyclical buffer value for Sweden.

#### 6.3.1.3 Credit risk in treasury operations

Credit risk arises in treasury operations, in part, in the form of counterparty risks for the derivative contracts entered into by SBAB to manage its financial risks and, in part, in the form of investment risk as a result of investments in the liquidity portfolio and the investment of surplus liquidity. Calculation of the exposure value for counterparty risk is based on the mark-to-market approach and the majority of the exposure is covered through collateral agreements.

The assessment of credit risk in treasury operations is based on the same principles as for lending operations. The material difference to lending operations is that the PD is set based on the counterparty's external rating and the LGD is set based on the type of instrument (derivative, covered bond, etc.).

#### 6.3.1.4 Sovereign risk

SBAB has central government exposures in its treasury operations and lending operations, which are allocated a risk weight of 0% under Pillar 1. SBAB uses sovereign risk as a risk class in its economic capital model and quantifies the internally assessed capital requirement from sovereign risk. Sovereign risk is calculated on foreign exposures with the risk-weight formula for institutions using an LGD of 45%, and where the PD is set based on the counterparty's external rating.

#### 6.3.1.5 Credit-related concentration risk

Concentration risk arises when exposures are concentrated to certain counterparties, regions or industries. SBAB is considered to be exposed to credit-risk related concentration risk in its lending and treasury operations. The entire capital requirement for concentration risk is included in the economic capital for credit risk.

SBAB calculates the concentration risk divided into single-name concentration, industry concentration and sector concentration (geographic concentration). SBAB's method for single-name concentration is based on a method developed by Gordy & Lutkebohmert (2007) while industry and sector concentration is based on a method based on the Herfindahl index.

Upon calculation at 31 December 2017, the internally calculated capital requirement for concentration risk was SEK 898 million (669), of which SEK 842 million (619) pertained to credit risk in lending operations and SEK 57 million (50) to credit risk in funding operations.

#### 6.3.2 Credit valuation adjustment risk (CVA)

CVA is defined as the risk of a downgrade in the credit quality of SBAB's OTC derivative counterparties. Calculation of the exposure amount for counterparty risk is based on the mark-to-market approach. SBAB quantifies CVA each month in accordance with the standardised approach in the CRR.

SBAB does not identify any additional amount under Pillar 2 for CVA.

#### 6.3.3 Operational risk

Operational risk means the risk of losses due to inappropriate or unsuccessful internal processes, human error, faulty systems or external events. The definition also includes legal risk.

SBAB applies the standardised approach for capital adequacy for operational risk under Pillar 1. This approach calculates the capital requirement based on 12, 15 and 18%, respectively of the business area's average operating income over the past three years.

SBAB does not identify any additional amount under Pillar 2 for operational risk.

#### 6.3.4 Market risk

Market risk means the risk of a negative earnings impact due to market fluctuations and, in SBAB's operations, mainly comprises interest-rate risk, credit-spread risk, currency risk and basis risk. Market risk is quantified using SBAB's Value at Risk models (VaR) and is managed by limiting exposure within limits set by the Board and by centralising the management of these risks to the Treasury department.

#### 6.3.4.1 Interest-rate risk

Interest-rate risk pertains to the risk of variations in general interest rate levels leading to a negative earnings impact due to future income and expenses having different fixed-interest periods or interest terms. The general principle governing SBAB's exposure to interest-rate risk is to limit it through direct borrowing and the use of derivatives. As far as possible, fixed-interest liabilities are matched with fixed-interest assets, but since SBAB's residential mortgage customers generally choose floating interest (threemonth fixed-interest period) while a large portion of the liability is fixed to longer maturities, a large portion of the debt must be swapped down to a three-month fixed interest period. As a general principle, the interest-rate risk associated with mortgage lending and the liquidity portfolio, including the debt allocated to the respective portfolios, should be matched. SBAB's equity is invested using a guide value determined by SBAB's Board and therefore includes a strategic long-term interest-rate risk.

#### 6.3.4.2 Credit-spread risk

Credit-spread risk is defined as the value changes in SBAB's bond holdings, since the credit rating of the issuers can change.

#### 6.3.4.3 Currency risk

Currency risk refers to the risk that changes in the exchange rate for SEK against other currencies result in losses or negatively impact earnings. As a general rule, SBAB swaps its borrowing in foreign currencies into SEK or matches it against assets in the liquidity portfolio in the same currency.

#### 6.3.4.4 Basis risk

Basis risk mainly arises when borrowing in foreign currency is swapped to SEK using mismatched maturities.

#### 6.3.4 Pension risk

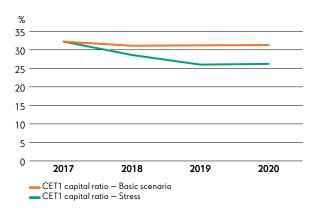
Pension risk arises from the obligation under SBAB's defined-benefit pension plans to provide agreed compensation to existing and former employees of the company. Even though SBAB makes ongoing payments to secure this obligation, a risk exists in the form of a negative outcome in terms of the return on the capital provision. The present value of the pension obligation could also increase depending on actuarial assumptions in terms of mortality and as a result of a lower discount rate. SBAB quantifies pension risks in accordance with the Swedish FSA's methods for assessing individual types of risk within Pillar 2.

#### 6.3.5 Capital planning buffer

# 6.3.5.1 Quantification and assessment of the capital planning buffer

To evaluate the effect of SBAB's stress test, a calculation is made of the change in SBAB's capital adequacy ratios resulting from increased capital requirements and reduced own funds resulting from greater loan losses. In the stress scenario characterised by a severe recession, both the capital requirement and expected losses would increase significantly, albeit from very low levels. At the same time, net interest income would deteriorate relative to the basic scenario as a result of increased funding expenses. As a result of the simulation of a difficult but not unlikely scenario, SBAB's CET1 capital ratio would weaken according to the below.

FIGURE 6. CET1 CAPITAL RATIO IN A STRESSED SCENARIO



To counteract the weakening of SBAB's CET1 capital ratio, a provision of SEK 2,170 million would be required as a buffer without taking into account the risk-weight floor, which is the additional CET1 capital required to maintain an unchanged CET1 capital ratio relative to the basic scenario. However, most of SBAB's credit exposures are covered by the risk-weight floor for Swedish residential mortgages and, consequently, the capital requirements will not increase due to a reasonable increase in risk in the lending portfolio. Taking into account the risk-weight floor for Swedish residential mortgages and thereby excluding the increase in the capital requirements for Swedish mortgages, a provision of SEK 630 million was made as a buffer. This was then compared with the capital conservation buffer and any surplus added to the capital requirement. SBAB's stress tests are described in more detail in section 6.5.

#### 6.3.5.2 Income volatility

Due to the structure of the accounting regulations, whereby different parts of the balance sheet are measured differently, valuation effects arise that affect operating profit and thereby own funds without constituting a real market risk.

Basis swaps not included in a hedging relation are measured at fair value while the loans to which the basis swaps are linked are not fully measured at market value should no hedge accounting relationship exist. This means that the basis risk on basis swaps that are not subject to hedge accounting lack counter-items in profit and loss.

This has the effect that operating profit, and thereby own funds, varies in a manner that does not match the actual risk to which the portfolio is exposed. To simulate how much this can conceivably affect own funds, a VaR model has been used. The model is based on a holding period of one year and a confidence level of 99.97%. A substantial gradual decrease from current levels is expected in SBAB's income volatility, when outstanding basis swaps not included in the hedge accounting approach maturity. Moreover, income volatility is limited for risk mitigation and capital adequacy provided by the capital planning buffer, which is why it is not reported separately in the internally assessed capital requirement.

#### 6.3.5.3 Business risk

Business risk means the risk of declining earnings due to harsher competition, inappropriate strategies or erroneous decisions. Weaker earnings arising, for example, from reduced margins as a result of increased funding costs or tougher competition, can to some extent be met by reducing the SBAB's costs. However, since the cost base largely comprises fixed expenses that cannot be reduced over a one-year horizon. Business risk can be described as the loss arising when earnings decline to such an extent that they no longer cover the fixed expenses in a stressed economic scenario. Similar to the definition in the Swedish FSA's consultation memorandum "Capital requirements for Swedish banks" from September 2014, SBAB defines a normal economic recession as a scenario that occurs around every seven years.

The capital requirement for business risk is quantified by evaluating the effects of a stressed scenario that corresponds to a normal economic recession. SBAB's stress tests are described in more detail in section 6.5.

#### 6.4 Compilation of internal capital adequacy assessment

According to the Swedish FSA's supervisory practices, it is expected that SBAB will cover a certain part of its capital requirement for risks in Pillar 2 with CET1 capital. These are as a general rule to be covered according to the same capital distribution as the Pillar 1 capital requirement, including static buffer requirements (capital conservation buffer, systemic risk buffer and O-SII buffers). For SBAB, this means that 67% of the capital requirement for risks in Pillar 2 should be covered with CET1 capital.

SBAB's internally calculated capital requirements without and with consideration for the risk-weight floor for Swedish residential mortgages are stated below. SBAB's internally assessed capital requirement corresponds to a CET1 capital ratio of 25.8% and a total capital ratio of 36.2%. According to the targets set out in SBAB's capital policy, these levels should, under normal conditions, be exceeded by at least 1.5% of the risk exposure amount. Accordingly, the CET1 capital ratio should amount to at least 27.3% and the total capital ratio to at least 37.7% as per 31 December 2017.

TABLE 18. INTERNALLY CALCULATED CAPITAL REQUIREMENTS PER RISK TYPE

|            |   | EXCL. RISK-WEI | GHT FLOOR                               | INCL. RISK-WEIGHT FLOOR                 |
|------------|---|----------------|---|---|
| SEK millio | n   | Pillar 1       | Internally assessed capital requirement | Internally assessed capital requirement |
|            | Credit & CVA risk1)                               | 2,920          | 2,920                                   | 2,920                                   |
| Pillar 1   | Market risk                                       | 93             | 93                                      | 93                                      |
|            | Operational risk                                  | 331            | 331                                     | 331                                     |
|            | Credit risk                                       | -              | 1,119                                   | -                                       |
|            | Market risk                                       | -              | 1,002                                   | 1,002                                   |
|            | Operational risk                                  | -              | 0                                       | 0                                       |
| Pillar 2   | Risk-weight floor                                 | -              | -                                       | 7,940                                   |
|            | Concentration risk                                | -              | 898                                     | 898                                     |
|            | Sovereign risk                                    | -              | 57                                      | 57                                      |
|            | Pension risk                                      | -              | 0                                       | 0                                       |
|            | Capital conservation buffer                       | 1,045          | 1,045                                   | 1,045                                   |
| Buffers    | Capital planning buffer, supplement <sup>2)</sup> | -              | 1,125                                   | 0                                       |
|            | Countercyclical buffer                            | 829            | 829                                     | 829                                     |
| Total      |   | 5,218          | 9,419                                   | 15,115                                  |

<sup>1)</sup> In the internal capital requirement without taking the risk-weight floor into account, additional credit risks in Pillar 2 consist of SBAB's estimated capital requirement in economic capital. Since the additional capital requirement for the risk-weight floor exceeds the additional capital requirement according to economic capital, only the risk-weight floor is included in the internal capital requirement with consideration for the risk-weight floor.

According to its supervision and evaluation process based on data from 31 December 2016, the Swedish FSA assessed SBAB's CET1 capital requirement to correspond to a CET1 capital ratio of 23.9%. The corresponding requirement for the total capital ratio amounted to 34.7%.

<sup>2)</sup> The higher of the stress test buffer and the capital conservation buffer is included in the internally assessed capital requirement. After taking into account the risk-weight floor, the stress test buffer is calculated without consideration for risk migration in the residential mortgage portfolios and, accordingly, the required buffer is smaller. After taking into account the risk-weight floor, the stress test buffer becomes even smaller than the capital conservation buffer, and therefore the supplement in the form of the capital planning buffer is zero.



#### 6.5 Stress tests

Capital planning is founded on a basic scenario that reflects the most probable operational development based on internal forecasts. Complementing this, stress tests and scenario analyses are performed, whereby the development of the loan portfolio and capital requirements during severe but plausible financial stress is evaluated. When performing the tests, events and economic conditions that could give rise to an unfavourable impact on the institution's loan-portfolio exposures and that are not reflected in the anticipated scenario are also taken into account.

#### 6.5.1 Stress test methods

SBAB uses a number of statistical models to forecast credit risk. The common factor for the models is that they are built around one or more explanatory variables that are specifically adapted to the kind of exposure and risk dimension (PD or LGD) for which the model is intended to be used. A change in one or more of these explanatory variables results in a change in the forecast credit risk. This in turn affects the risk class to which an exposure is allocated. In the stress tests, this relationship is utilised by simulating changes in the underlying model variables. The starting point for this simulation is an assumed macroeconomic scenario. In the stress test, a scenario that expresses an unfavourable economic trend will result in a migration towards inferior risk classes, which in turn entails higher economic capital, higher risk exposure amounts and larger anticipated losses. A scenario that reflects an economic recovery will consequently result in the opposite effect. A simplified illustration of the process is provided in Figure 7.

The stress test is conducted for the portfolio at that particular date. This portfolio is then subjected to stress over a three-year time horizon, taking the planned volume development within different portfolio segments into account. The macroeconomic scenario that forms the basis of the stress test is also assumed to have a direct effect in SBAB's risk models. This means that the model variables are expected to change without any time shift.

TABLE 19. PARAMETERS SUBJECTED TO STRESS IN THE CURRENT
AND NEXT THREE YEARS

| Demand                                | Prices                              | Interest rates                           |
|---------------------------------------|-------------------------------------|--|
| GDP growth (real)                     | Consumer prices                     | Residential mortgages,<br>3 month        |
| Disposable household income (nominal) | House prices                        | STIBOR, 3 month                          |
| Employment                            | Prices of tenant-<br>owners' rights | Government bond rate,<br>10-year         |
| Unemployment                          | Residential property prices         | STIBOR Treasury bill                     |
|                                       |                                     | Housing bonds — Government bonds, 5-year |
|                                       |                                     | Government bonds<br>Sweden – Germany,    |

10-year

The components included in SBAB's model for stress tests comprise:

- Determination of a macroeconomic scenario for the stress test
- Translation of the macroeconomic scenario to model variables
- Assumptions regarding new sales and loan redemption
- Calculation of expected losses and capital requirements
- Calculation of profit and own funds.

In addition to loan losses and capital requirements related to credit risk, the stress tests also simulate the effect of a deterioration in SBAB's credit rating and the effect of a decline in property prices on SBAB's scope for funding by means of covered bonds. These are expected to lead to increased funding costs, resulting in weaker net interest income and lower earnings, and consequently also to reduced own funds. Finally, realised losses related to operational risks are also brought out by applying a fraud scenario independent of the macro scenarios, thus leading to further deterioration in earnings and decreased own funds.

#### 6.5.2 Macroeconomic scenario

The stress tests can be used in a number of conceivable approaches and methods. In general, these involve an assumption regarding a future scenario, either hypothetical or based on a historical outcome. The stress tests presented in SBAB's current ICLAAP are based on a hypothetical scenario whereby the development of the parameters is based on a subjective interpretation of economic theory and empirical analysis. The scenario describes a sharp economic decline.

For a number of variables in the models, there is a natural connection between the value the variable is expected to take on and the development of one or more of the macroeconomic parameters. In these cases, the variable value could consequently be recalculated directly based on the change in the underlying macro-parameters.

In general, all model variables are expected to be affected to some extent, except the variables that are not deemed to be correlated to economic conditions.

Since a macroeconomic scenario cannot be directly translated to the effect that it has on certain PD variables, historical correlations are used instead. Examples of such model variables are the number of reminders and claims. For these variables, the effect has instead been estimated based on the historical correlation to the residential mortgage rate.

LGD is subjected to stress according to the same methodology as PD. Since SBAB's LGD models are built around the loan-to-value ratio, changes in the market values of properties have a direct impact on LGD.

Finally, the macro scenario is combined with a simulated deterioration in SBAB's credit rating by two rating levels.

#### Scenario

- External shocks have a heavy impact on the Swedish economy, internal imbalances and problems reinforce these effects, resulting in recession and problems in the banking system. Typically, this kind of scenario occurs approximately every 25 years.
- Declining growth and financial unease in China and other growth countries, combined with unease surrounding US trade policy and renewed uncertainty surrounding cooperation on the euro lead to the prices of oil and other commodities falling sharply and the international financial markets being impacted by a "flight to quality." International demand declines rapidly and Swedish households rapidly tighten their belts while international confidence in the central government's financing and the banks' financial strength is eroded due to an uncertain parliamentary situation and imbalances in the housing and residential mortgage market. The Swedish krona weakens significantly, helping maintain inflation above 0%.
- The GDP decline will be about the same as during the financial crisis of 2008/2009, although the process is more protracted. Employment and income levels fall. The economy will not stabilise until 2019.
- The central government's finances deteriorate rapidly and the parliamentary situation helps erode the credibility of economic policy, causing a sharp rise in risk premiums. The banking system is under pressure. Although the Riksbank attempts to stimulate the economy, it does not succeed, since risk premiums are rising sharply. Altogether, housing prices will fall by 25-30% before stabilising in 2019.

# LEVERAGE RATIO

The CRR introduced a non-risk-sensitive metric to avoid excessive indebtedness. This metric is calculated as Tier 1 capital in relation to total assets and off-balance sheet exposures restated with the application of credit conversion factors (CCF).

The leverage ratio is a measure of solvency. Compared with the capital adequacy requirement, assets are not risk-weighted but rather the same amount of capital is required, regardless of what risk is associated with the assets. According to the European Commission's delegated act, the leverage ratio is calculated as Tier 1 capital divided by the total exposure amount, where off-balance sheet exposures are assigned CCFs. The leverage ratio amounted to 3.86% as of December 2017.

#### TABLE 20. LEVERAGE RATIO

| SEK million       | 2017    | 2016    |
|-------------------|---------|---------|
| Tier 1 capital    | 16,443  | 15,385  |
| Exposure metric   | 425,674 | 380,230 |
| Leverage ratio, % | 3.86    | 4.05    |

# RISK IN REMUNERATION SYSTEMS

SBAB is to have a remuneration system that is both compatible with and promotes effective risk management and does not encourage undue risk-taking. Remuneration should promote SBAB's long-term interests. Further information on remuneration systems is available in Note 7 of SBAB's annual report and on the website www.sbab.se.

The General Meeting decides on the overall guidelines for remuneration and other employment terms for senior executives (members of SBAB's Executive Management). The Board of Directors decides on:

- Remuneration policy, risk analysis regarding remuneration systems and other policy documents for remuneration issues
- Remuneration and other employment benefits for Executive Management and the heads of the control functions (the CRO and the heads of Internal Audit and Compliance)
- Follow-up on the application of SBAB's control documents regarding remuneration issues.

The Board has appointed a Remuneration Committee. Information on the members of the Remuneration Committee and the number of meetings can be found in the Corporate Governance Report in SBAB's Annual Report at www.sbab.se.

The Remuneration Committee is tasked with preparing remuneration issues for decision by the Board and for conducting an independent assessment of policy documents pertaining to remuneration issues and remuneration systems. The Board is to ensure that the appropriate control functions participate in the independent assessments.

The Board decides the mission description for the Remuneration Committee. The meetings of the Remuneration Committee are reported back to the Board through the minutes prepared of the Remuneration Committee's meetings. The Board annually evaluates and follows up how SBAB has complied with the principles for the remuneration of senior executives that have been adopted by the Annual General Meeting and the remuneration structures and remuneration levels, including bonuses.

At present, SBAB has no variable remuneration to senior management or members of staff whose actions have a material impact on the institution's risk profile.

# OPERATIONS OPERATIONS

SBAB conducts customer-centric credit operations based on professionalism, simplicity and quality, which create the conditions for favourable profitability and long-term customer relations. This means that the credit operations are denoted by high credit quality, efficient decision-making processes, and respect for and understanding of the customer's situation. This also entails straightforward conduct, language and procedures, balanced risk-taking in the portfolio and in each individual transaction, and risk-based pricing.

#### 9.1 Credit risk management

SBAB is to have documented risk management of credit risk with a clear division of responsibilities. Credit risk management must support the business operations, ensure SBAB's survival and be in line with SBAB's rating targets. SBAB's credit operations are characterised by low risk taking. Business-related risks are viewed in relation to arisen earnings. Credit risk is considered in all business decisions and constitutes a component in the pricing of products and services.

SBAB's Board and Executive Management are to be actively involved in the design of the institution's risk management system and the follow-up of credit risks. The Board of Directors or its committees approve all significant methods, models and processes related to credit risk.

The reporting structure is designed so that the Board of the Parent Company and the Executive Management receive reports on all material risks. Procedures must be in place for managing and acting, based on the information provided in the reports.

#### 9.2 Credit risk in the lending portfolio

Credit risk is the single largest risk in SBAB and accounts for 82% of the risk exposure amount according to Pillar 1. Credit risk is defined as the risk of loss due to the customer's inability to make interest and loan repayments or otherwise fulfil the loan agreement.

Aside from through lending and loan commitments, credit risk arises in connection with changes in the value of pledged collateral, resulting in this no longer covering the Group's receivables. In the credit-granting process, the credit risk of a new credit is first checked by the business area and then, in some cases, by the credit department. Credit risk is then checked by risk control, which is also responsible for analysing credit risk. Each business operation deals with the practical management of credit risk.

Credit risk in lending operations is restricted by limits determined for the customer or customer group. The credit risk is also managed through a credit-granting process, whereby the ability of potential borrowers to make their interest payments and capital repayments is analysed. For example, new retail loans are granted only to borrowers who are expected to be able to pay interest and make capital repayments when interest rates comfortably exceed the rate prevailing today. Furthermore, risk

classification is used in the analysis of the credit risk for new and existing customers in the loan portfolios.

Large exposures, meaning those amounting to 10% or more of own funds, are managed based on the credit instructions and external regulations. All exposures exceeding 2% of own funds are identified and analysed for the purpose of deciding whether they fall within the framework of large exposures in relation to a group of customers with internal ties.

The granting of credit requires the provision of adequate collateral, which can be provided in the form of real property or a share in a tenant-owners' association. Adequate collateral usually means mortgage deeds in a property or a tenant-owners' association of not more than 75–85% of the market value. The 85% ratio applies provided that collateral can be obtained with first lien and that the customer has a risk class of R1–R4 for retail customers and C1–C3, and manually adjusted from C3 to C4, for corporate customers (for the relation between risk class and rating, refer to Table 22). In other cases, an LTV ratio of 75% generally applies for corporate exposures. SBAB also grants small unsecured loans to borrowers in the retail segment. Furthermore, SBAB applies a debt ratio ceiling of 550% (gross income in relation to the loan) for new retail loans.

When lending to consumers, market values for collateral in the form of properties or rights of use are generally determined by the administrator, based on approved calculation models. If the market value cannot be determined using approved calculation models, it is determined by the person in charge of valuations or an approved external appraiser.

When lending to tenant-owners' associations and companies, the market values for collateral in the form of properties or rights of use are generally determined by the person in charge of valuations. External valuations can form the basis of decisions upon approval by the person in charge of valuations. If an external valuation is carried out by an approved external appraiser, the valuation does not require approval by the person in charge of valuations.

SBAB verifies the property value on a regular basis. For residential properties and tenant-owners' rights, the property value is verified at least every third year. For other properties, the value is verified at least annually. If there are major changes in economic factors that affect the property market, the value is verified more often.

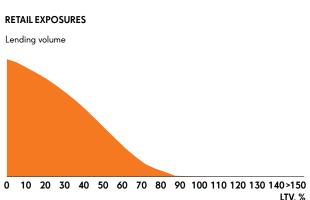
In addition to collateral in real property or a unit in a tenant-owners' association, it is possible to grant credit against, for example, collateral in the form of a state credit guarantee, a municipal guarantee, securities, bank guarantees and deposits at a Swedish bank.

To a limited extent, equities corresponding to up to 85% of the market value of the underlying properties can be approved as collateral in conjunction with a property purchase through a company transaction. SBAB does not hold any collateral that has been taken over in foreclosure to protect claims.

Lending to the public accounts for 80% of SBAB's total assets. Figures 8 and 9 describe loan-to-value (LTV) for loans for which collateral consists of mortgage deeds on shares in tenant-owners' associations. Figure 8 shows corporate exposures and Figure 9 shows retail exposures<sup>1)</sup>. The areas in the figures correspond to the lending volume and cover 96% of total retail lending. Since 85% of lending is secured with collateral in mortgage deeds or shares in tenant-owners' associations to within 50% LTV and 99% within 75% LTV, as well as 95% of borrowers being categorised in risk classes 1–4, the credit quality is assessed as very favourable (see the table under figures 8 and 9).

FIGURES 8 AND 9. "LOAN TO VALUE" (LTV) FOR CORPORATE AND RETAIL EXPOSURES

# CORPORATE EXPOSURES Lending volume 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140>150 LTV, %



| Segment, %          | Below 50% | Below 75% | Below 85% | Below 100% | Exposure-<br>weighted<br>average LTV |
|---------------------|-----------|-----------|-----------|------------|--------------------------------------|
| Corporate exposures | 79.3      | 99.7      | 100.0     | 100.0      | 62.8                                 |
| Retail exposures    | 85.2      | 98.7      | 99.8      | 100.0      | 55.1                                 |
| Total               | 84.7      | 98.8      | 99.8      | 100.0      | 55.8                                 |

<sup>1) &</sup>quot;Retail loans" refers to all lending to the public pertaining to houses, holiday homes and tenant-owners' rights, as well as unsecured loans to consumers and loans to tenant-owners' associations with a turnover of less than EUR 50 million. "Loans to corporates" refers to loans to other legal entities and, to a lesser extent, to other retail lending.

#### 9.3 Risk classification system

SBAB applies the IRB approach for retail loans and lending to tenant-owners' associations and the foundation IRB approach (FIRB approach) for corporate loans. These commitments comprise 98.5% of total lending to the public. For other types of exposures, including unsecured loans, the standardised approach is used for quantifying credit risk.

The IRB approach has been used since 2007 for assessing credit risk where a mortgage deed or a share in a tenant-owners' association is used as collateral. In 2013, permission was received to include tenant-owners' associations with a turnover of less than EUR 50 million in the retail exposure class, for which SBAB holds an IRB permit. In 2015, SBAB also received permission to use the IRB approach for excess exposures that are not fully covered by mortgage deeds, property financing using collateral other than directly pledged mortgage deeds and building credits. Previously, the standardised approach was used for these exposures.

In credit risk models, an assessment is made of the probability of default<sup>1)</sup> and share of loss, as well as the proportion of loan commitments utilised in the event of default. On the basis of these parameters and the size of the exposure, the expected and unexpected loss can be estimated. The exposure is ranked by probability of default to one of eight risk classes for corporate and retail

loans, of which the eighth class comprises customers in default. Trends for customers in high-risk classes are monitored diligently and, when necessary, exposure is managed actively by credit monitoring personnel.

The IRB models are used in SBAB's lending operations for tasks such as credit granting, pricing, portfolio analysis and performance monitoring per business area. All deviations from the quantitatively calculated risk class are analysed. The models produced are validated annually by risk control and, whenever required, they are recalibrated. The validations carried out for 2017 did not result in any changes to models. A major challenge in the validation process has been that the number of defaults and losses has been very low.

For those customer segments within corporate exposures for which current financial statements are available, the quantitative assessment process is supplemented with a systematic qualitative assessment in accordance with SBAB's loan regulations, based on a number of predetermined questions (see Figure 10). For other customer segments involving corporate lending, credit analysts add their assessment of risk class and an explanatory statement to the supporting material for assessment of risk class in the decision-processing system.

FIGURE 10. INTERNAL RATING PROCESS FOR CORPORATES



<sup>1)</sup> An exposure is regarded as in default if the receivable is more than 60 days past due (for receivables exceeding SEK 1,000) or if an assessment has been made that the customer will probably not be able to pay agreed interest amounts or cover repayments of the principal.

#### 9.4 Risk classification method

In conjunction with capital adequacy and risk classification, exposures are categorised in exposure classes. Loans to tenant-owners' associations with a turnover of less than EUR 50 million and 100% collateral in residential property are reported in the retail exposure class. For central government, institutional, unsecured lending exposures and other exposures, the standardised approach is applied. The portion of loans for which a municipality or the Swedish National Housing Credit Guarantee Board (currently a part of the National Board of Housing, Building and Planning) has issued a guarantee is referred to central government and municipal exposures and is recognised in accordance with the standardised approach. Table 11, Capital requirements and risk exposure amounts, shows the distribution of risk exposure amounts and capital requirements by exposure class.

With regard to exposures that are assessed using the IRB approach, SBAB has opted to use a scoring method for risk classification of counterparties in the PD dimension. The data on which the scoring models are based was obtained from both internal and external sources.

Internal data consists of customer information, loan information, default outcomes and internal payment records. Data obtained

externally includes income data, financial accounts, external payment records, property data and macroeconomic data.

SBAB's PD models for corporate exposures and exposures to tenant-owners' associations are based on data originating in December 1996. PD models for retail exposures are based on data from September 2001 and onwards. In preparing PD estimates, data from the financial crisis of the 1990s and onwards are also used. Table 21 shows the distinction between retail exposures and corporate exposures.

For contingent liabilities in the retail exposure class, which primarily consist of loan commitments to consumers, SBAB uses in-house estimates of CCFs. In the CCF calculation, a scoring model is used to estimate the probability that the exposure will end up on SBAB's balance sheet. The model builds primarily on how far the particular loan case has progressed in SBAB's credit-granting process and how long the case has spent at each stage. The estimated probability is used to allocate each exposure to eight CCF risk classes. The CCF estimate, including the safety margin, is calculated as the 99th percentile of the average approval frequencies per monthly observation point in the particular CCF classes.

TABLE 21. LOAN PORTFOLIOS AND EXPOSURE CLASSES FOR WHICH THE IRB APPROACH IS APPLIED

| Portfolio  | Property   | Exposure class      | Method                  | PD model    |
|------------|--|---------------------|-------------------------|-------------|
|            | Private properties   |                     |                         |             |
| Corporates | Tenant-owner associations (turnover greater than or equal to EUR 50 million) | Corporate exposures | Foundation IRB approach | "Corporate" |
|            | Commercial properties  |                     |                         |             |
| Retail     | Houses and holiday homes   |                     |                         |             |
|            | Tenant-owners' rights  | Retail exposures    | IRB                     | "Retail"    |
|            | Tenant-owner associations (turnover less than EUR 50 million)                |                     |                         |             |

#### 9.5 The link between external and internal ratings

SBAB's risk classes are not directly comparable to the ratings used by external credit rating agencies.

The credit rating agencies' ratings do not correspond to a direct classification of the counterparties' probability of default in the same way that the bank's risk classification does. The credit rating agencies also consider, to a varying degree, the severity of the losses that may be caused by default, while SBAB captures this in the LGD dimension. The time horizon on which the credit rating is based is not always the same for credit rating agencies as for SBAB.

Accordingly, it is difficult to translate internal risk classes to external ratings unequivocally and consistently. However, by analysing the historic proportion of default in SBAB's risk classes compared with the proportion of default in Standard & Poor's rating classes, it is possible to obtain a reasonably correct comparative table. Table 22 presents the external rating classes that best correspond to the historic proportion of default in each of SBAB's risk classes.

TABLE 22. RELATIONSHIP BETWEEN INTERNAL AND EXTERNAL RATING

| Risk class | Standard & Poor's rating |  |  |  |
|------------|--------------------------|--|--|--|
| C1         | AAA-A                    |  |  |  |
| C2         | A                        |  |  |  |
| C3         | A-BBB                    |  |  |  |
| C4         | BBB-BB                   |  |  |  |
| C5         | BB                       |  |  |  |
| C6         | BB-B                     |  |  |  |
| C7         | В-С                      |  |  |  |

| Risk class | Standard & Poor's rating |
|------------|--------------------------|
| R1         | AAA-AA                   |
| R2         | AA-A                     |
| R3         | Α                        |
| R4         | A-BBB                    |
| R5         | BBB-BB                   |
| R6         | BB                       |
| R7         | BB-C                     |

#### 9.6 Exposure amounts and capital requirements

Table 23 shows all credit-risk exposures both in and outside the lending portfolio. Without taking credit risk protection into account, the total amount for all credit-risk exposures was SEK 446,393 million.

Credit risk protection used for IRB exposures consists of government and municipal guarantees. The full exposure amount for IRB exposures pertains to property financing where the dominant collateral comprises loans where a mortgage deed or a share in a tenant-owners' association is used as collateral. Credit risk protection is only used to an extremely limited extent for exposures reported in accordance with the standardised approach.

Although SBAB has also obtained credit loss guarantees of SEK 104 million from business partners, these are not used when calculating capital adequacy ratios. In addition, the Parent Company and SCBC have jointly taken up credit insurance with Gen-

worth Financial Mortgage Insurance Limited (Genworth) (sold to AmTrust Financial Services, Inc in 2016), which is also not used when calculating capital adequacy. The credit insurance covers that part of the principal that exceeds 85% of the value of collateral pledged. The insured principal amounted to SEK 65 million at 31 December 2017. The insurance policy was cancelled effective 1 January 2009 and cannot be utilised for new loans. However, the policy continues to apply as before for loans that were covered by the insurance from the start.

Corporate exposures comprised only 12% of total exposures in the loan portfolio for which the IRB approach is used, but due to the higher average risk weighting, the exposures account for 50% of the total capital requirement according to Pillar 1 when the IRB approach is applied.

The average risk weighting for exposures recognised in accordance with the IRB approach was 7.1%, while the weighting

TABLE 23. EXPOSURE AMOUNTS BY EXPOSURE CLASS FOR CREDIT-RISK EXPOSURES

| SEK million   | Original exposure<br>before credit<br>risk protection | Value<br>adjustments | Collateral that reduces<br>capital requirements in<br>the form of guarantees<br>and financial securities | Inflows | Exposures within the line before CCF | Exposure after<br>CCF <sup>1)</sup> | Exposure within the line after CCF | Exposure amounts<br>covered by credit risk<br>protection in the form<br>of properties |
|---|---|----------------------|--|---------|--------------------------------------|-------------------------------------|------------------------------------|---|
| Credit risk in lending portfolio recognised under the IRB approach              |   |                      |  |         |                                      |                                     |                                    |   |
| Corporate exposures   | 43,551  | -                    | -118   | -       | 5,198                                | 42,133                              | 3,899                              | 42,133  |
| Retail exposures  | 331,840   | -                    | -902   | -       | 37,500                               | 303,942                             | 10,504                             | 303,942   |
| of which, houses and holiday homes  | 141,440   | -                    | -54  | -       | 15,048                               | 130,472                             | 4,135                              | 130,473   |
| of which, tenant-owners' rights   | 143,335   | -                    | -  | -       | 22,198                               | 127,288                             | 6,151                              | 127,287   |
| of which, tenant-owners' associations   | 47,065  | -                    | -848   | -       | 254                                  | 46,182                              | 218                                | 46,182  |
| Total credit risk under the IRB approach  | 375,391   | _                    | -1,020   | -       | 42,698                               | 346,075                             | 14,403                             | 346,075   |
| Credit risk in the lending portfolio recognised under the standardised approach |   |                      |  |         |                                      |                                     |                                    |   |
| Exposures to governments and central banks                                      | 17,853  | -                    | -  | 62      | -                                    | 17,915                              | -                                  | -   |
| Exposures to regional governments or local authorities or agencies              | 7,944   | -                    | -  | 958     | -                                    | 8,902                               | _                                  | -   |
| Exposures to multilateral development banks                                     | 1,787   | -                    | -  | -       | -                                    | 1,787                               | -                                  | -   |
| Exposures to institutions   | 6,182   | -                    | -40  | -       | -                                    | 6,142                               | -                                  | -   |
| Exposures to corporates   | -   | -                    | -  | -       | -                                    | -                                   | -                                  | -   |
| Retail exposures  | 3,781   | -10                  | -  | -       | 1,059                                | 2,924                               | 212                                | -   |
| Exposures in default  | 15  | -5                   | -  | -       | -                                    | 10                                  | -                                  | -   |
| Exposures in the form of covered bonds  | 32,817  | -                    | -  | -       | -                                    | 32,817                              | -                                  | -   |
| Exposures to institutions and corporates with a short-term credit rating        | 107   | -                    | -  | -       | -                                    | 107                                 | _                                  | -   |
| Equity exposures  | 86  | -                    | -  | -       | -                                    | 86                                  | -                                  | -   |
| Other exposures   | 430   | _                    | -  |         | -                                    | 430                                 | _                                  | -   |
| Total credit risk under the standardised approach                               | 71,002  | -15                  | -40  | 1,020   | 1,059                                | 71,120                              | 212                                |   |
| Total   | 446,393   | -15                  | -1,060   | 1,020   | 43,757                               | 417,195                             | 14,615                             | 346,075   |

<sup>1)</sup> In exposures after inflows and outflows, adjustments have been made of amounts to be recognised and covered by capital in an exposure class other than the original one.

<sup>2)</sup> Off-balance sheet exposures have been excluded.

for exposures recognised with the standardised approach was 13.4%. Exposure-weighted average PD per counterparty for IRB exposures amounted to 0.29% for corporate exposures and 0.46% for retail exposures. Exposure-weighted average LGD for corporate exposures was 38.2% and exposure-weighted LGD for retail exposures was 10.0%. The exposure-weighted amount for LGD is controlled by the limitation rule, which entails a lowest total level for LGD of 10% for retail exposures covered by collateral in residential properties and 15% for retail exposures covered by collateral in commercial properties.

The following tables in this section correspond with COREP reporting with regard to exposure amounts, but unlike last year, net exposure amounts (exposures after credit risk adjustments but before credit risk protection, and inflows and outflows) have been reported. This meets the European Banking Authority's disclosure requirements.

The tables illustrating lending operations differ from the information provided in the 2017 Annual Report as exposure amounts, including accrued interest, are reported instead of the principal and because transaction costs are excluded. Moreover, Booli has been excluded since this company is not included in the consolidated situation.

| Average exposure<br>amounts for lending<br>portfolio exposures<br>2) | Risk exposure<br>amounts before<br>SME discount | Risk exposure<br>amounts after SME<br>discount | Capital<br>requirement | Average risk<br>weight, % | Individual<br>provisions | Collective<br>provisions with<br>deduction for<br>guarantees | Expected loss | Exposure-weighted<br>average PD, % | Exposure-weighted average LGD, % |
|--|---|--|------------------------|---------------------------|--------------------------|--|---------------|------------------------------------|----------------------------------|
|  |   |  |                        |                           |                          |  |               |                                    |                                  |
| 38,574   | 12,908  | 12,258   | 981                    | 29.1                      | 18                       | 1  | 45            | 0.29                               | 38.20                            |
| 274,518  | 12,771  | 12,469   | 997                    | 4.1                       | 25                       | 132  | 160           | 0.46                               | 10.00                            |
| 116,807  | 5,184   | 5,184  | 414                    | 4.0                       | 3                        | 51   | 62            | 0.45                               | 16.2                             |
| 111,864  | 6,125   | 6,125  | 490                    | 4.8                       | 12                       | 81   | 74            | 0.50                               | 10.4                             |
| 45,847   | 1,462   | 1,160  | 93                     | 2.5                       | 10                       | 0  | 24            | 0.39                               | 8.4                              |
| 313,092  | 25,679  | 24,727   | 1,978                  | 7.1                       | 43                       | 133  | 205           |                                    |                                  |
|  |   |  |                        |                           |                          |  |               |                                    |                                  |
|  |   |  |                        |                           |                          |  |               |                                    |                                  |
| 80   | 0   | 0  | 0                      | 0.0                       | _                        | _  |               |                                    |                                  |
| 1,070  | 0   | 0  | 0                      | 0.0                       | _                        | _  |               |                                    |                                  |
| _  | 0   | 0  | 0                      | 0.0                       | _                        | =  |               |                                    |                                  |
| -  | 2,593   | 2,593  | 207                    | 42.2                      | _                        | -  |               |                                    |                                  |
| -  | -   | -  | -                      | -                         | -                        | _  |               |                                    |                                  |
| 2,720  | 2,193   | 2,193  | 175                    | 75.0                      | -                        | 10   |               |                                    |                                  |
| 15   | 11  | 11   | 1                      | 117.1                     | 2                        | 2  |               |                                    |                                  |
| -  | 3,282   | 3,282  | 263                    | 10.0                      | -                        | =  |               |                                    |                                  |
| _  | 21  | 21   | 2                      | 20.0                      | _                        | _  |               |                                    |                                  |
|  | 1,078   | 1,078  | 86                     | 1250.0                    |                          |  |               |                                    |                                  |
|  |   |  |                        |                           |                          |  |               |                                    |                                  |
|  | 331   | 331  | 27                     | 76.9                      |                          |  |               |                                    |                                  |
| 3,885  | 9,509   | 9,509  | 761                    | 13.4                      | 2                        | 12   |               |                                    |                                  |
| 316,977  | 35,188  | 34,236   | 2,739                  | 8.2                       | 45                       | 145  |               |                                    |                                  |

TABLE 24. **CREDIT RISK EXPOSURES BY EXPOSURE CLASS AND PD RANGE** (EBA CR6 TABLE)

| SEK million               |                        | PD scale           | Original<br>on-bal-<br>ance-sheet<br>exposure | Off-bal-<br>ance-sheet<br>exposures<br>pre-CCF | Average<br>CCF, % | Exposure<br>value after<br>CCF | Average<br>PD, % | Number of borrowers | Average<br>LGD, % | Average<br>maturity | exposure | Risk<br>exposure<br>amount<br>density, % | Expected<br>loss | Value<br>adjust-<br>ments and<br>provisions |
|---------------------------|------------------------|--------------------|---|--|-------------------|--------------------------------|------------------|---------------------|-------------------|---------------------|----------|--|------------------|---|
| Exposure cla              | ıss                    |                    |   |  |                   |                                |                  |                     |                   |                     |          |  |                  |   |
|                           |                        | 0.00 to < 0.15     | 5,590   | -  | -                 | 5,575                          | 0.09             | 68                  | 35.5              | 2.5                 | 878      | 16                                       | 2                | _   |
|                           |                        | 0.15 to < 0.25     | 6,324   | -  | -                 | 6,322                          | 0.21             | 102                 | 35.9              | 2.5                 | 1,582    | 25                                       | 5                | _   |
|                           |                        | 0.25 to <0.50      | 1,867   | _  | -                 | 1,866                          | 0.45             | 83                  | 35.6              | 2.5                 | 702      | 38                                       | 3                | _   |
|                           | 0, 1, 1                | 0.50 to < 0.75     | -   | _  | _                 | _                              |                  | _                   | _                 | -                   | _        | _  | -                |   |
|                           | Of which,<br>Corporate | 0.75 to <2.50      | 46  | _  | -                 | 35                             | 1.16             | 16                  | 35.4              | 2.5                 | 20       | 58                                       | -                | _   |
|                           | SME                    | 2.50 to <10.00     | 231   | _  | -                 | 226                            | 3.07             | 14                  | 42.4              | 2.5                 | 219      | 97                                       | 3                | _   |
|                           |                        | 10.00 to <100.00   | 11  | _  | -                 | 11                             | 27.04            | 2                   | 35.2              | 2.5                 | 14       | 127                                      | 1                | _   |
|                           |                        | 100.00 (Default)   | 47  |  | _                 | 47                             | 100.00           | 1                   | 35.0              | 2.5                 | _        | _  | 16               | -   |
| Corporates<br>(foundation |                        | Portfolio subtotal | 14,116  | _  | _                 | 14,082                         | 0.60             | 286                 | 35.8              | 2.5                 | 3,415    | 24                                       | 30               | 19  |
| approach)                 |                        | 0.00 to < 0.15     | 17,821  | 3,127  | 75.0              | 20,082                         | 0.09             | 120                 | 37.9              | 2.5                 | 5,053    | 25                                       | 7                | _   |
|                           |                        | 0.15 to < 0.25     | 5,973   | 1,800  | 75.0              | 7,323                          | 0.21             | 53                  | 43.0              | 2.5                 | 3,341    | 46                                       | 7                | _   |
|                           |                        | 0.25 to < 0.50     | 435   | 271  | 75.0              | 638                            | 0.45             | 10                  | 44.5              | 2.5                 | 443      | 69                                       | 1                |   |
|                           | 0, 1, 1                | 0.50 to < 0.75     | _   | _  | _                 | _                              | _                | _                   | _                 | _                   | _        | _  | _                | _   |
|                           | Of which,<br>Corporate | 0.75 to <2.50      | 8   | _  | _                 | 8                              | 1.16             | 3                   | 35.0              | 2.5                 | 6        | 80                                       | 0                | _   |
|                           | Other                  | 2.50 to <10.00     | _   | _  | _                 | _                              | _                | _                   | _                 | _                   | _        | _  | _                |   |
|                           |                        | 10.00 to <100.00   | _   | _  | _                 | _                              | _                | _                   | _                 | _                   | _        | _  | _                | _   |
|                           |                        | 100.00 (Default)   | _   | _  | _                 | _                              | _                | _                   | _                 | _                   | _        | _  | _                | _   |
|                           |                        | Portfolio subtotal | 24,237  | 5,198  | 75.0              | 28,051                         | 0.13             | 186                 | 39.4              | 2.5                 | 8,843    | 32                                       | 15               | _   |
|                           |                        | 0.00 to < 0.15     | 32,751  | 191  | 84.9              | 32,587                         | 0.09             | 1,130               | 8.0               | _                   | 467      | 1  | 2                | _   |
|                           |                        | 0.15 to < 0.25     | 11,860  | 63   | 84.1              | 11,540                         | 0.21             | 638                 | 9.1               | _                   | 352      | 3  | 2                | _   |
|                           |                        | 0.25 to < 0.50     | 1,748   | _  | _                 | 1,651                          | 0.45             | 149                 | 10.0              | _                   | 96       | 6  | 1                | _   |
|                           | 0, 1, 1                | 0.50 till < 0.75   | _   | _  | _                 | _                              | _                | _                   | _                 | -                   | _        | _  | -                | _   |
|                           | Of which,<br>Retail    | 0.75 to <2.50      | 222   | _  | _                 | 193                            | 1.16             | 31                  | 12.1              | _                   | 26       | 13                                       | _                | _   |
|                           | SME                    | 2.50 to <10.00     | 120   | _  | _                 | 101                            | 3.44             | 22                  | 12.7              | _                   | 27       | 27                                       | 1                | _   |
|                           |                        | 10.00 to <100.00   | _   | _  | _                 | _                              | _                | _                   | _                 | _                   | _        | _  | _                | _   |
|                           |                        | 100.00 (Default)   | 111   | _  | _                 | 111                            | 100.00           | 5                   | 16.2              | -                   | 192      | 173                                      | 18               |   |
| Retail                    |                        | Portfolio subtotal | 46,812  | 254  | 84.7              | 46,183                         | 0.39             | 1,975               | 8.4               | _                   | 1,160    | 3  | 24               | 9   |
| (advanced approach)       |                        | 0.00 to < 0.15     | 153,250                                       | 18,239   | 36.3              | 157,778                        | 0.04             | 113,041             | 9.8               | -                   | 1,967    | 1  | 7                | _   |
| ,                         |                        | 0.15 to < 0.25     | 47,317  | 13,333   | 40.1              | 51,236                         | 0.16             | 33,420              | 10.9              | _                   | 2,020    | 4  | 9                | _   |
|                           |                        | 0.25 to < 0.50     | 29,767  | 5,149  | 35.6              | 31,204                         | 0.42             | 19,103              | 11.2              | -                   | 2,570    | 8  | 15               | _   |
|                           | 0, 1, 1                | 0.50 till < 0.75   | _   | _  | _                 | _                              | _                | _                   | _                 | -                   | _        | _  | _                | _   |
|                           | Of which,<br>Retail    | 0.75 to <2.50      | 13,080  | 401  | 74.9              | 13,370                         | 1.55             | 7,669               | 11.6              | -                   | 2,741    | 21                                       | 24               | _   |
|                           | Other                  | 2.50 to <10.00     | 2,426   | 44   | 70.9              | 2,456                          | 4.17             | 1,492               | 11.2              | _                   | 875      | 36                                       | 11               | _   |
|                           |                        | 10.00 to <100.00   | 1,410   | 80   | 43.0              | 1,437                          | 24.67            | 1,080               | 11.2              | _                   | 986      | 69                                       | 40               | _   |
|                           |                        | 100.00 (Default)   | 278   | 0  | 2.5               | 278                            | 100.00           | 189                 | 12.5              | _                   | 150      | 54                                       | 30               | _   |
|                           |                        | Portfolio subtotal | 247,528                                       | 37,246   | 38.5              | 257,759                        | 0.47             | 175,994             | 10.3              | _                   | 11,309   | 4  | 136              | 148   |
| Total (all po             | rtfolios)              |                    | 332,693                                       | 42,698   | 38.7              | 346,075                        | 0.44             | 178,441             | 13.4              | _                   | 24,727   | 7  | 205              | 176   |

TABLE 25. TREND FOR RISK EXPOSURE AMOUNTS UNDER THE IRB APPROACH ( $\it EBA\ CR8\ TABLE$ )

| SEK million                            | Risk expo-<br>sure amount | Capital requirement |
|--|---------------------------|---------------------|
| REA at the end of the previous period  | 23,546                    | 1,884               |
| Asset size                             | 2,923                     | 234                 |
| Asset quality                          | -1,731                    | -139                |
| Model updates                          | -                         | -                   |
| Methodology and policy                 | -                         | -                   |
| Acquisitions and disposals             | -                         | -                   |
| Foreign exchange movements             | -                         | -                   |
| Other                                  | -11                       | -1                  |
| REA at the end of the reporting period | 24,727                    | 1,978               |

#### 9.7 Exposure amounts by geographical region

SBAB's lending operations are concentrated to Sweden. There is some exposure to other countries in Western Europe, Canada and the US due to the funding of the Swedish lending operations.

SBAB's lending portfolio is mainly secured by housing in the Stockholm area (67%). Only 0.03% of the underlying collateral derives from economically weak regions. Sweden is divided as follows:

- Greater Stockholm: Stockholm's labour market region according to Statistics Sweden (SCB) (2004);
- Greater Gothenburg: Gothenburg's labour market region according to SCB (2004);
- The Öresund region: Labour market regions in Malmö and Helsingborg according to SCB (2004);
- University and growth regions: Municipalities with universities and municipalities with especially buoyant growth according to analyses by SBAB;
- Weak regions<sup>1)</sup>: Municipalities with very weak or negative growth according to analyses by SBAB; and
- Other regions<sup>1)</sup>: Municipalities that are not allocated to any other category.

TABLE 26. TOTAL AND AVERAGE NET AMOUNT OF CREDIT-RISK EXPOSURES (FBA CRB-B TABLE)

| SEK million  | Net exposure<br>amount at<br>the end of<br>the period <sup>2)</sup> | Average net<br>exposures over<br>the period <sup>3)</sup> |
|--|---|---|
| Exposures to corporates  | 43,532  | 43,707  |
| of which, Specialised lending  | -   | -   |
| of which, SMEs   | 14,097  | 16,816  |
| Retail exposures   | 331,683   | 322,704   |
| Exposures to households secured against immovable property               | 331,683   | 322,704   |
| of which, SMEs   | 47,056  | 47,030  |
| of which, non-SMEs   | 284,627   | 275,674   |
| of which, non-SMEs   | -   | -   |
| Total exposure with IRB approach   | 375,215   | 366,411   |
| Exposures to governments and central banks                               | 17,853  | 15,979  |
| Exposures to regional governments or local authorities or agencies       | 7,944   | 7,056   |
| Exposures to public sector entities                                      | -   | -   |
| Exposures to multilateral development banks                              | 1,787   | 1,632   |
| Exposures to international organisations                                 | -   | -   |
| Exposures to institutions <sup>1)</sup>                                  | 6,183   | 5,977   |
| Exposures to corporates  | _   | -   |
| of which, to SMEs  | -   | -   |
| Retail exposures   | 3,771   | 3,905   |
| of which, to SMEs  | -   | -   |
| Exposures to households secured against immovable property               | -   | -   |
| of which, to SMEs  | -   | -   |
| Exposures in default   | 10  | 10  |
| Exposures associated with particularly high risk                         | -   | -   |
| Exposures in the form of covered bonds                                   | 32,817  | 34,057  |
| Exposures to institutions and corporates with a short-term credit rating | 107   | 271   |
| Exposures in the form of collective investment undertakings              | -   | -   |
| Equity exposures   | 86  | 22  |
| Other exposures  | 430   | 593   |
| Total exposure with standardised approach                                | 70,988  | 69,502  |
| Total  | 446,203   | 435,913   |

 $<sup>^{1)}\,\</sup>mbox{The}$  institution exposure class includes counterparty risk.

<sup>1)</sup> The analysis is based in part on statistics from SCB, such as short and long-term population growth, the proportion of the population older than 64 years, average income and the vacancy rate in public utility housing, and in part on the local knowledge of SBAB's analysts.

<sup>2)</sup> Average net exposures after provisions pertain to both the IRB and the standardised approach.

<sup>3)</sup> Average net exposures after provisions per tain to both the into and the standardised approximation and the standardis

TABLE 27. NET EXPOSURE AMOUNT BY GEOGRAPHICAL AREA FOR CREDIT-RISK EXPOSURES<sup>1</sup> (EBA CRB-C TABLE)

| SEK million  | Sweden  | Denmark | Finland | France | Germany | Norway | United<br>Kingdom | USA | Canada | Switzer-<br>land | Other countries | Total   |
|--|---------|---------|---------|--------|---------|--------|-------------------|-----|--------|------------------|-----------------|---------|
| Exposures to corporates  | 43,532  | _       | _       | _      | _       | _      | _                 | _   | _      | _                | _               | 43,532  |
| Retail exposures   | 331,683 |         | _       |        |         | _      |                   |     |        |                  | _               | 331,683 |
| Total exposure with IRB approach   | 375,215 |         | _       | _      | _       | -      | _                 | _   |        | _                | -               | 375,215 |
| Exposures to governments and central banks                               | 17,414  | -       | 338     | -      | -       | -      | -                 | 101 | -      | -                | -               | 17,853  |
| Exposures to regional governments or local authorities or agencies       | 7,321   | 500     | _       | 123    | -       | -      | -                 | -   | -      | -                | -               | 7,944   |
| Exposures to multilateral development banks                              | -       | -       | -       | -      | -       | -      | -                 | -   | -      | -                | 1,787           | 1,787   |
| Exposures to institutions  | 2,664   | 2,336   | -       | 6      | 1       | 220    | 37                | 18  | 882    | 19               | -               | 6,183   |
| Exposures to corporates  | -       | _       | -       | -      | -       | -      | _                 | -   | -      | -                | -               | _       |
| Retail exposures   | 3,771   | -       | -       | -      | -       | -      | _                 | -   | _      | -                | -               | 3,771   |
| Exposures to households secured against immovable property               | -       | -       | -       | -      | -       | -      | -                 | -   | -      | -                | -               | _       |
| Exposures in default   | 10      | _       | _       | -      | _       | _      | -                 | _   | _      | _                | -               | 10      |
| Exposures associated with particularly high risk                         | -       | -       | -       | -      | -       | _      | -                 | _   | -      | -                | -               |         |
| Exposures in the form of covered bonds                                   | 30,227  | 1,481   | -       | 641    | 468     | -      | -                 | -   | -      | -                | -               | 32,817  |
| Exposures to institutions and corporates with a short-term credit rating | 107     | -       | _       | _      | -       | _      | -                 | -   | -      | -                | _               | 107     |
| Exposures in the form of collective investment undertakings              | -       | -       | -       | -      | -       | -      | -                 | -   | -      | -                | -               |         |
| Equity exposures   | 86      | -       | -       | -      | -       | -      | -                 | -   | _      | _                | -               | 86      |
| Other exposures  | 430     | -       | -       | -      | -       | -      | -                 | -   | _      | -                | -               | 430     |
| Total exposure with standardised approach                                | 62,030  | 4,317   | 338     | 770    | 469     | 220    | 37                | 119 | 882    | 19               | 1,787           | 70,988  |
| Total  | 437,245 | 4,317   | 338     | 770    | 469     | 220    | 37                | 119 | 882    | 19               | 1,787           | 446,203 |

 $<sup>^{1)}\,</sup> Unlike~2016$  , this table also encompasses contingent liabilities.

TABLE 28. NET EXPOSURE AMOUNT BY GEOGRAPHICAL AREA FOR CREDIT-RISK EXPOSURES IN LENDING OPERATIONS

| SEK million  | Greater<br>Stockholm | Greater<br>Gothenburg |        | University and growth regions | Other regions | Weak regions | Total   |
|--|----------------------|-----------------------|--------|-------------------------------|---------------|--------------|---------|
|  |                      |                       |        |                               |               |              |         |
| Exposures to corporates  | 20,190               | 3,312                 | 8,159  | 7,368                         | 3,620         | 883          | 43,532  |
| Retail exposures   | 193,222              | 28,622                | 34,444 | 27,272                        | 45,485        | 2,638        | 331,683 |
| Total exposure with IRB approach   | 213,412              | 31,934                | 42,603 | 34,640                        | 49,105        | 3,521        | 375,215 |
| Exposures to governments and central banks                               | -                    | -                     | -      | _                             | -             | _            | -       |
| Exposures to regional governments or local authorities or agencies       | -                    | -                     | -      | 1                             | 1             | -            | 2       |
| Exposures to multilateral development banks                              | -                    | -                     | -      | -                             | -             | -            | -       |
| Exposures to institutions  | -                    | -                     | -      | _                             | -             | -            | -       |
| Exposures to corporates  | -                    | -                     | -      | -                             | -             | -            | -       |
| Retail exposures   | 957                  | 106                   | 66     | 57                            | 2,583         | 2            | 3,771   |
| Exposures to households secured against immovable property               | -                    | -                     | -      | -                             | -             | -            | -       |
| Exposures in default   | 3                    | -                     | -      | _                             | 7             | -            | 10      |
| Exposures associated with particularly high risk                         | -                    | -                     | -      | -                             | -             | -            | -       |
| Exposures in the form of covered bonds                                   | -                    | -                     | -      | _                             | _             | -            |         |
| Exposures to institutions and corporates with a short-term credit rating | -                    | -                     | -      | -                             | _             | -            | -       |
| Exposures in the form of collective investment undertakings              | -                    | -                     | -      | -                             | -             | -            |         |
| Equity exposures   | -                    | -                     | -      | -                             | -             | -            | _       |
| Other exposures  | -                    | -                     | -      | -                             | -             | -            | -       |
| Total exposure with standardised approach                                | 960                  | 106                   | 66     | 58                            | 2,591         | 2            | 3,783   |
| Total  | 214,372              | 32,040                | 42,669 | 34,698                        | 51,696        | 3,523        | 378,998 |

### 9.8 Net exposure amounts by next stipulated date of expiry

Table 29 presents net exposures in the balance sheet, that is, off-balance-sheet items are excluded. A large proportion (61%) of credit-risk exposures have less than one year remaining until

maturity <sup>1)</sup>. The proportion with a remaining term of between one and five years accounts for 98% of the outstanding exposures. Exposures under other items where the duration cannot be calculated have been placed in the "no stated maturity" column to provide a better overview.

TABLE 29. **NET EXPOSURE AMOUNTS BY MATURITY** (EBA CRB-E TABLE)

| SEK million  | On demand | <=1 year | >1 year <=5<br>years | >5 years | No stated<br>maturity | Total   |
|--|-----------|----------|----------------------|----------|-----------------------|---------|
| Exposures to corporates  |           | 9,873    | 27,470               | 991      | _                     | 38,334  |
| Retail exposures   |           | 216,862  | 74,403               | 2,882    | 36                    | 294,183 |
| Total exposure with IRB approach   |           | 226,735  | 101,873              | 3,873    | 36                    | 332,517 |
| Exposures to governments and central banks                               |           | 10,257   | 7,596                | -        | _                     | 17,853  |
| Exposures to regional governments or local authorities or agencies       |           | 738      | 5,376                | 1,830    | _                     | 7,944   |
| Exposures to public sector entities                                      |           | _        | _                    | -        | _                     | -       |
| Exposures to multilateral development banks                              |           | _        | 1,241                | 546      | _                     | 1,787   |
| Exposures to international organisations                                 |           | _        | _                    | -        | _                     | -       |
| Exposures to institutions  |           | 262      | 5,797                | 124      | -                     | 6,183   |
| Exposures to corporates  |           | _        | _                    | -        | _                     | -       |
| Retail exposures   | 2,001     | 711      | _                    | -        | _                     | 2,712   |
| Exposures to households secured against immovable property               |           | _        | _                    | -        | _                     | _       |
| Exposures in default   |           | _        | _                    | -        | 10                    | 10      |
| Exposures associated with particularly high risk                         |           | _        | _                    | -        | _                     | -       |
| Exposures in the form of covered bonds                                   |           | 3,287    | 26,669               | 2,861    | _                     | 32,817  |
| Exposures to institutions and corporates with a short-term credit rating |           | 107      | -                    | -        | -                     | 107     |
| Exposures in the form of collective investment undertakings              |           | -        | -                    | -        | -                     | -       |
| Equity exposures   |           | -        | -                    | -        | 86                    | 86      |
| Other exposures  |           | _        | -                    | _        | 430                   | 430     |
| Total exposure with standardised approach                                |           | 15,362   | 46,679               | 5,361    | 526                   | 69,929  |
| Total  | 2,001     | 242,097  | 148,552              | 9,234    | 562                   | 402,446 |

<sup>1)</sup> For credit-risk exposures in the lending portfolio, the next stipulated date of expiry has been used. The stipulated date of expiry is defined as the day for establishing the conditions that are to apply for loans during the forthcoming contractual period. The terms must be supported by the stipulations of the original loan agreement.

#### 9.9 Net exposure amounts by sector and type of property

Tables 30 and 31 contain net amounts for on- and off-balancesheet items. Table 30 provides information about credit-risk exposures as a whole unlike Table 31 which shows credit-risk exposures in lending operations. In the distribution of the lending portfolio by type of property, lending for houses, holiday homes, tenant-owners' rights and tenant-owners' associations accounts for 79% of the total lending portfolio.

TABLE 30. CONCENTRATION OF EXPOSURES BY INDUSTRY OR COUNTERPARTY TYPES (EBA CRB-D TABLE)

| SEK million  | Construction | Real estate<br>activities | Other services | Financial services* | Total   |
|--|--------------|---------------------------|----------------|---------------------|---------|
| Exposures to corporates  | 12,391       | 31,141                    | -              | -                   | 43,532  |
| of which, Specialised lending  | -            | -                         | -              | -                   | -       |
| of which, to SMEs  | -            | 14,097                    | -              | -                   | 14,097  |
| Retail exposures   | -            | 331,683                   | -              | -                   | 331,683 |
| Exposures to households secured against immovable property               | -            | 331,683                   | -              | -                   | 331,683 |
| of which, to SMEs  | -            | 47,056                    | -              | -                   | 47,056  |
| of which, to non-SMEs  | -            | 284,627                   | -              | -                   | 284,627 |
| Total exposure with IRB approach   | 12,391       | 362,824                   | _              | _                   | 375,215 |
| Exposures to governments and central banks                               | -            | -                         | -              | 17,853              | 17,853  |
| Exposures to regional governments or local authorities or agencies       | -            | 7,944                     | -              | -                   | 7,944   |
| Exposures to public sector entities                                      | -            | -                         | -              | -                   | -       |
| Exposures to multilateral development banks                              | -            | -                         | -              | 1,787               | 1,787   |
| Exposures to international organisations                                 | -            | -                         | -              | -                   | -       |
| Exposures to institutions  | -            | -                         | -              | 6,183               | 6,183   |
| Exposures to corporates  | -            | -                         | -              | -                   | -       |
| of which, to SMEs  | -            | -                         | -              | -                   | -       |
| Retail exposures   | -            | -                         | 3,771          | -                   | 3,771   |
| of which, to SMEs  | -            | -                         | -              | -                   | -       |
| Exposures to households secured against immovable property               | -            | -                         | -              | -                   | -       |
| of which, to SMEs  | -            | -                         | -              | -                   | -       |
| Exposures in default   | -            | -                         | 10             | -                   | 10      |
| Exposures associated with particularly high risk                         | -            | -                         | -              | -                   | -       |
| Exposures in the form of covered bonds                                   | -            | -                         | -              | 32,817              | 32,817  |
| Exposures to institutions and corporates with a short-term credit rating | -            | -                         | -              | 107                 | 107     |
| Exposures in the form of collective investment undertakings              | -            | -                         | -              | -                   | -       |
| Equity exposures   | -            | -                         | 86             | =                   | 86      |
| Other exposures  | -            | -                         | 430            | -                   | 430     |
| Total exposure with standardised approach                                | _            | 7,944                     | 4,297          | 58,747              | 70,988  |
| Total  | 12,391       | 370,768                   | 4,297          | 58,747              | 446,203 |

TABLE 31. NET EXPOSURE AMOUNTS BY TYPE OF PROPERTY FOR CREDIT-RISK EXPOSURES IN LENDING OPERATIONS

| SEK million  | Houses and<br>holiday<br>homes | Tenant-<br>owners'<br>rights | Tenant-<br>owners'<br>associations | Private<br>multi-family<br>dwellings | Municipal<br>multi-family<br>dwellings | Commercial properties | Unsecured | Contingent<br>liabilities | Total   |
|--|--------------------------------|------------------------------|------------------------------------|--------------------------------------|--|-----------------------|-----------|---------------------------|---------|
| Exposures to corporates  | 16                             | 0                            | 5,051                              | 29,560                               | 217                                    | 3,490                 | 0         | 5,198                     | 43,532  |
| Retail exposures   | 126,338                        | 121,043                      | 46,802                             | 0                                    | 0                                      | 0                     | 0         | 37,500                    | 331,683 |
| Total exposure with IRB approach   | 126,354                        | 121,043                      | 51,853                             | 29,560                               | 217                                    | 3,490                 | 0         | 42,698                    | 375,215 |
| Exposures to governments and central banks                               | -                              | -                            | -                                  | -                                    | -                                      | -                     | -         | -                         | -       |
| Exposures to regional governments or local authorities or agencies       | -                              | -                            | -                                  | -                                    | 2                                      | -                     | -         | _                         | 2       |
| Exposures to public sector entities                                      | -                              | -                            | -                                  | -                                    | -                                      | -                     | -         | -                         | -       |
| Exposures to multilateral development banks                              | -                              | -                            | -                                  | -                                    | -                                      | -                     | -         | -                         | -       |
| Exposures to international organisations                                 | -                              | -                            | -                                  | -                                    | -                                      | -                     | -         | -                         | -       |
| Exposures to institutions  | -                              | -                            | -                                  | -                                    | -                                      | -                     | -         | -                         | _       |
| Exposures to corporates  | -                              | -                            | -                                  | -                                    | -                                      | -                     | -         | -                         | -       |
| Retail exposures   | 290                            | 421                          | -                                  | -                                    | -                                      | -                     | 2,001     | 1,059                     | 3,771   |
| Exposures to households secured against immovable property               | -                              | -                            | -                                  | -                                    | -                                      | =                     | -         | _                         | -       |
| Exposures in default   | 3                              | -                            | -                                  | -                                    | -                                      | -                     | 7         | -                         | 10      |
| Exposures associated with particularly high risk                         | -                              | -                            | -                                  | -                                    | -                                      | -                     | -         | -                         | -       |
| Exposures in the form of covered bonds                                   | -                              | -                            | -                                  | -                                    | -                                      | -                     | -         | -                         | -       |
| Exposures to institutions and corporates with a short-term credit rating | -                              | -                            | -                                  | -                                    | -                                      | -                     | -         | _                         | -       |
| Exposures in the form of collective investment undertakings              | -                              | -                            | -                                  | -                                    | -                                      | -                     | -         | -                         | -       |
| Equity exposures   | -                              | -                            | -                                  | -                                    | -                                      | -                     | -         | -                         | -       |
| Other exposures  | -                              | -                            | -                                  | -                                    | -                                      | _                     | -         | -                         |         |
| Total exposure with standardised approach                                | 293                            | 421                          | _                                  |                                      | 2                                      | -                     | 2,008     | 1,059                     | 3,783   |
| Total  | 126,647                        | 121,464                      | 51,853                             | 29,560                               | 219                                    | 3,490                 | 2,008     | 43,757                    | 378,998 |

### 9.10 Past due exposures and exposures subject to impairment requirements

An exposure is regarded as in default if the receivable is more than 60 days past due or if an assessment has been made that the customer will probably not be able to pay agreed interest amounts or cover repayments of the principal. Exposures subject to impairment requirements refer to doubtful exposures whereby individual provisions have been posted for commitments relating to corporate loans or retail loans, meaning that in SBAB's assessment, future payments are exposed to risk and the collateral does not cover the amount of the claim. The selection used for provisions comprises all corporate customers where there is objective evidence of impairment and individual retail customers where special reasons for impairment exist. All exposures in risk class C8 are reviewed monthly and assessed for risk. The size of the individual provision for corporate customers is assessed by comparing the agreed payment flow from the customer with the expected future payment capacity in combination with a valuation of the underlying collateral. In separate cases, after individual assessment, retail customers in risk class R8 are covered by an individual provision. The individual and collective provisions, with deductions for guarantees, amounted to 42% of the exposure amount for past due exposures.

The collective provision is intended to cover losses for events that have occurred but that have not yet had effect on the individual level in the form of payment difficulties or been otherwise identified in an individual review of commitments. The collective provision consists of customers in risk classes C6–C8 and R5–R8. All loans with individual provisions are automatically excluded from the collective provision given that SBAB has already estimated the risk of losses for these loans.

All provisions have been assessed to constitute specific risks based on Article 1, item 5, of the EBA's regulatory technical standards on specific and general risk regarding Article 110, item 4 of the CRR.

TABLE 32. CREDIT QUALITY OF EXPOSURES BY EXPOSURE CLASS AND INSTRUMENT (EBA CR1-A TABLE)

|  | Gross carrying            | amount of                  |                                       |  |                           |  |                                       |
|--|---------------------------|----------------------------|---------------------------------------|--|---------------------------|--|---------------------------------------|
| SEK million  | Exposures in N<br>default | lon-defaulted<br>exposures | Specific<br>credit risk<br>adjustment | General<br>credit risk adjust-<br>ment | Accumulated<br>write-offs | Credit risk<br>adjustment<br>charges for<br>the period | Net values<br>(or net expo-<br>sures) |
| Exposures to corporates  | 48                        | 43,503                     | 19                                    | -                                      | -                         | -  | 43,532                                |
| – of which, Specialised lending  | -                         | -                          | -                                     | -                                      | -                         | -  | -                                     |
| - of which, to SMEs  | 48                        | 14,068                     | 19                                    | -                                      | -                         | -  | 14,097                                |
| Retail exposures   | 389                       | 331,451                    | 157                                   | -                                      | 25                        | -30  | 331,683                               |
| Exposures to households secured against immovable property               | 389                       | 331,451                    | 157                                   | -                                      | 25                        | -30  | 331,683                               |
| – of which, to SMEs  | 111                       | 46,954                     | 10                                    | -                                      | 23                        | -12  | 47,055                                |
| of which, to non-SMEs  | 278                       | 284,497                    | 148                                   | -                                      | 2                         | -18  | 284,627                               |
| Total exposure with IRB approach   | 437                       | 374,954                    | 176                                   | -                                      | 25                        | -30  | 375,215                               |
| Exposures to governments and central banks                               | -                         | 17,853                     | -                                     | -                                      | -                         | -  | 17,853                                |
| Exposures to regional governments or local authorities or agencies       | -                         | 7,944                      | -                                     | -                                      | -                         | -  | 7,944                                 |
| Exposures to public sector entities                                      | -                         | -                          | -                                     | -                                      | -                         | -  | -                                     |
| Exposures to multilateral development banks                              | -                         | 1,787                      | -                                     | -                                      | -                         | -  | 1,787                                 |
| Exposures to international organisations                                 | -                         | -                          | -                                     | -                                      | -                         | -  | -                                     |
| Exposures to institutions  | -                         | 6,183                      | -                                     | -                                      | -                         | -  | 6,183                                 |
| Exposures to corporates  | -                         | -                          | -                                     | -                                      | -                         | -  | -                                     |
| - of which, to SMEs  | -                         | -                          | -                                     | -                                      | -                         | -  | -                                     |
| Retail exposures   | 14                        | 3,781                      | 10                                    | -                                      | -                         | -  | 3,785                                 |
| – of which, to SMEs  | -                         | _                          | -                                     | -                                      | -                         | -  | -                                     |
| Exposures to households secured against immovable property               | _                         | -                          | -                                     | -                                      | -                         | -  | -                                     |
| – of which, to SMEs  | _                         | -                          | -                                     | _                                      | -                         | _  | _                                     |
| Exposures in default   | 14                        | -                          | 4                                     | _                                      | -                         | -2   | 10                                    |
| Exposures associated with particularly high risk                         | _                         | -                          | -                                     | _                                      | -                         | _  | _                                     |
| Exposures in the form of covered bonds                                   | -                         | 32,817                     | -                                     | -                                      | -                         | -  | 32,817                                |
| Exposures to institutions and corporates with a short-term credit rating |                           | 107                        | -                                     | _                                      | -                         | -  | 107                                   |
| Exposures in the form of collective investment undertakings              |                           | -                          | -                                     | _                                      | -                         | -  | -                                     |
| Equity exposures   | -                         | 86                         | -                                     | -                                      | -                         | -  | 86                                    |
| Other exposures  | -                         | 430                        | -                                     | _                                      | -                         | -  | 430                                   |
| Deduction for retail exposures in default, recognised on rows 24 and 28* | -14                       | -                          | -                                     | _                                      | -                         | _  | -14                                   |
| Total exposure with standardised approach                                | 14                        | 70,988                     | 14                                    | _                                      | -                         | -2   | 70,988                                |
| Total  | 451                       | 445,942                    | 190                                   | _                                      | 25                        | -32  | 446,203                               |
| – Of which, loans  | 451                       | 334,980                    | 190                                   | -                                      | 25                        | -32  | 335,241                               |
| - Of which, debt securities  | -                         | 60,398                     | -                                     | -                                      | -                         | -  | 60,398                                |
| - Of which, off-balance-sheet exposures                                  | -                         | 43,757                     | -                                     | -                                      | -                         | -  | 43,757                                |

<sup>\*</sup> Pursuant to EBA guidelines

TABLE 33. CREDIT QUALITY OF EXPOSURES BY INDUSTRY OR COUNTERPARTY TYPES (EBA CR1-B TABLE)

|                        | Gross carrying            |                            |  |   |                           | Net values |  |
|------------------------|---------------------------|----------------------------|--|---|---------------------------|------------|--|
| SEK million            | Exposures in N<br>default | Non-defaulted<br>exposures | Specific General<br>credit risk credit risk<br>adjustment adjustment |   | Accumulated<br>write-offs |            | Credit risk<br>adjustment<br>charges for<br>the period |
| Construction           | -                         | 12,391                     | -  | - | -                         | -          | 12,391   |
| Real estate activities | 436                       | 370,508                    | -  | - | -                         | -30        | 370,768  |
| Other services         | 15                        | 4,296                      | 14   | - | -                         | -2         | 4,297  |
| Financial services*    | -                         | 58,747                     | -  | - | -                         | -          | 58,747   |
| Total                  | <i>A</i> 51               | 445 042                    | 100  | _ | 25                        | -32        | 446 203  |

 $<sup>^{\</sup>star}$ Credit institutions

TABLE 34. CREDIT QUALITY OF EXPOSURES BY GEOGRAPHY (EBA CR1-C TABLE)

|                  | Gross carryin           | g amount of                |                                       |                                      |                           |  |            |
|------------------|-------------------------|----------------------------|---------------------------------------|--------------------------------------|---------------------------|--|------------|
| SEK million      | Exposures in<br>default | Non-defaulted<br>exposures | Specific<br>credit risk<br>adjustment | General<br>credit risk<br>adjustment | Accumulated<br>write-offs | Credit risk<br>adjustment<br>charges for<br>the period | Net values |
| Sweden           | 451                     | 436,982                    | 190                                   | -                                    | 25                        | -32  | 437,243    |
| Denmark          | -                       | 4,318                      | -                                     | -                                    | -                         | -  | 4,318      |
| Finland          | -                       | 338                        | -                                     | -                                    | -                         | _  | 338        |
| Norway           | -                       | 771                        | -                                     | -                                    | -                         | -  | 771        |
| Canada           | -                       | 469                        | -                                     | -                                    | -                         | -  | 469        |
| USA              | -                       | 220                        | -                                     | -                                    | -                         | -  | 220        |
| France           | -                       | 37                         | -                                     | -                                    | -                         | -  | 37         |
| Germany          | -                       | 119                        | -                                     | -                                    | -                         | -  | 119        |
| United Kingdom   | -                       | 882                        | -                                     | -                                    | -                         | -  | 882        |
| Switzerland      | -                       | 19                         | -                                     | -                                    | -                         | -  | 19         |
| Austria          | -                       | -                          | -                                     | -                                    | -                         | -  | -          |
| Netherlands      | -                       | -                          | -                                     | -                                    | -                         | -  | -          |
| Spain            | -                       | -                          | -                                     | -                                    | -                         | -  | -          |
| Other countries* | -                       | 1,787                      | -                                     | -                                    | -                         | -  | 1,787      |
| Total            | 451                     | 445,942                    | 190                                   | 0                                    | 25                        | -32  | 446,203    |

 $<sup>^{\</sup>star} Pertains \ to \ investments \ in securities \ is sued \ by \ the \ European \ Investment \ Bank \ (EIB) \ and \ the \ Nordic \ Investment \ Bank \ (NIB)$ 

TABLE 35. AGEING OF PAST-DUE EXPOSURES (EBA CR1-D TABLE)

| SEK million                 |          | Gross carrying amounts |                      |                        |                       |        |  |  |  |  |  |
|-----------------------------|----------|------------------------|----------------------|------------------------|-----------------------|--------|--|--|--|--|--|
|                             | ←30 days | >30 days<br>←60 days   | >60 days<br>←90 days | > 90 days<br>←180 days | > 180 days<br>←1 year | 1 year |  |  |  |  |  |
| Loans                       | 16,564   | 270                    | 48                   | 75                     | 37                    | 35     |  |  |  |  |  |
| Interest-bearing securities | -        | -                      | -                    | -                      | -                     | -      |  |  |  |  |  |
| Total                       | 16,564   | 270                    | 48                   | 75                     | 37                    | 35     |  |  |  |  |  |

TABLE 36. NON-PERFORMING AND FORBORNE EXPOSURES (EBA CR1-E TABLE)

|                             |         |  | Gross co | ross carrying amounts |              |   | Accumulated impairment and provisions<br>and negative fair value adjustments due to<br>credit risk |           |                      |    | Collaterals and financial guarantees received |   |   |
|-----------------------------|---------|--|----------|-----------------------|--------------|---|--|-----------|----------------------|----|---|---|---|
|                             |         | Of which,  |          | 0                     | f which, noi | n-performin   | g*   | On perfor | ming expo-<br>sures* |    | performing<br>exposures*                      |   |   |
| SEK million                 |         | ing but<br>past due<br>>30 days<br>and <=60<br>days* |          |                       |              | Of which,<br>loans with<br>individual<br>provisions |  |           | Of which,            |    | Of which,<br>forborne                         | Of which,<br>non-per-<br>forming<br>exposures |   |
| Interest-bearing securities | -       | -  | -        | -                     | -            | -   | -  | -         | -                    | -  | -   | -   | - |
| Loans and advances          | 335,431 | 335  | 8        | 480                   | 447          | 113   | 68   | 129       | 0                    | 61 | 1   | _   | - |
| Off-balance-sheet exposures | 43,757  | -  | _        | -                     | -            | -   | -  | -         | -                    | -  | -   | -   |   |

 $<sup>^*</sup> Pertains to definitions pursuant to Appendix V to the Commission Implementing Regulation (EU) No 680/2014\\$ 

TABLE 37. NET EXPOSURE AMOUNTS FOR DEFAULTED AND NON-DEFAULTED EXPOSURES BY PROPERTY TYPE

| SEK million                      | Total exposure<br>amount in the<br>lending portfolio | Of which,<br>exposures in default | Of which<br>non-defaulted<br>exposures | for exposures with | Collective provisions<br>with deduction for<br>guarantees | Total exposure<br>amount in the<br>lending portfolio<br>after deduction<br>for provisions |
|----------------------------------|--|-----------------------------------|--|--------------------|---|---|
| Houses and holiday homes         | 126,700  | 140                               | 126,560                                | 3                  | 51  | 126,646   |
| Tenant-owners' rights            | 121,558  | 141                               | 121,417                                | 12                 | 81  | 121,465   |
| Tenant-owners' associations      | 51,863   | 111                               | 51,752                                 | 10                 | 0   | 51,853  |
| Private multi-family dwellings   | 29,579   | 48                                | 29,531                                 | 18                 | 1   | 29,560  |
| Municipal multi-family dwellings | 219  | 0                                 | 219                                    | 0                  | 0   | 219   |
| Commercial properties            | 3,490  | 0                                 | 3,490                                  | 0                  | 0   | 3,490   |
| Unsecured                        | 2,022  | 11                                | 2,011                                  | 2                  | 12  | 2,008   |
| Other                            | 43,757   | 0                                 | 43,757                                 | 0                  | 0   | 43,757  |
| Total                            | 379,188  | 451                               | 378,737                                | 45                 | 145   | 378,998   |

TABLE 38. NET EXPOSURE AMOUNTS FOR DEFAULTED AND NON-DEFAULTED EXPOSURES BY REGION

| SEK million                   | Total exposure<br>amount in the<br>lending portfolio | Of which,<br>exposures in default | Of which<br>non-defaulted<br>exposures | for exposures with | Collective provisions<br>with deduction for<br>guarantees | lotal exposure<br>amount in the<br>lending portfolio<br>after deduction<br>for provisions |
|-------------------------------|--|-----------------------------------|--|--------------------|---|---|
| Greater Stockholm             | 214,490  | 236                               | 214,254                                | 30                 | 88  | 214,372   |
| Greater Gothenburg            | 32,049   | 39                                | 32,010                                 | 0                  | 9   | 32,040  |
| Öresund region                | 42,689   | 105                               | 42,584                                 | 2                  | 19  | 42,668  |
| University and growth regions | 34,706   | 11                                | 34,695                                 | 0                  | 8   | 34,698  |
| Weak regions                  | 3,536  | 25                                | 3,511                                  | 10                 | 2   | 3,524   |
| Other regions                 | 51,718   | 35                                | 51,683                                 | 3                  | 19  | 51,696  |
| Total                         | 379,188  | 451                               | 378,737                                | 45                 | 145   | 378,998   |

### 9.11 Reconciliation of change in specific credit risk adjustments for loans with provisions

SBAB only has specific credit-risk adjustments and no general credit-risk adjustments.

These emanate from individual and collective provisions. Unlike the previous tables, provisions are reported without deductions for guarantees.

TABLE 39. CHANGE IN PROVISION FOR PROBABLE LOAN LOSSES

| SEK million   |              | Individual provision for collec-<br>tively measured receivables | Collective provision |
|---|--------------|---|----------------------|
| Opening balance   | -39          | -20   | -176                 |
| Individual provision for the year                       | <del>-</del> | -1  | -                    |
| Reversed from previous provisions                       | 12           | 3   | -                    |
| Individual provision utilised for confirmed loan losses | -            | 0   | -                    |
| Allocations to/unwinding of collective provisions       | -            | =   | 12                   |
| Closina balance   | -27          | -18   | -164                 |

#### TABLE 40. CHANGES IN THE STOCK OF GENERAL AND SPECIFIC CREDIT RISK ADJUSTMENTS (EBA CR2-A TABLE)

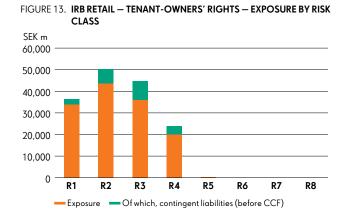
| SEK million  | Accumulated specific credit risk adjustment | Accumulated general<br>credit risk adjustment |  |  |
|--|---|---|--|--|
| Opening balance  | 222   | -   |  |  |
| Increases due to amounts set aside for estimated loan losses during the period             | 98  | -   |  |  |
| Decreases due to amounts reversed for estimated loan losses during the period              | -121  | =   |  |  |
| Decreases due to amounts taken against accumulated credit risk adjustments                 | -9  | -   |  |  |
| Transfers between credit risk adjustments  | -   | =   |  |  |
| Impact of exchange rate differences  | -   | -   |  |  |
| Business combinations, including acquisitions and disposals of subsidiaries                | -   | -   |  |  |
| Other adjustments  | -   | -   |  |  |
| Closing balance  | 190   | -   |  |  |
| Recoveries on credit risk adjustments recorded directly to the statement of profit or loss | -   | -   |  |  |
| Specific credit risk adjustments directly recorded to the statement of profit or loss      | _   |   |  |  |

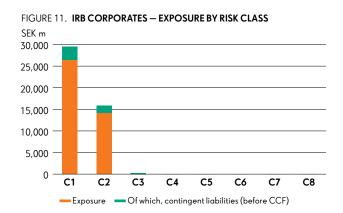
#### TABLE 41. CHANGES IN THE STOCK OF DEFAULTED AND IMPAIRED LOANS AND INTEREST-BEARING SECURITIES (EBA CR2-B TABLE)

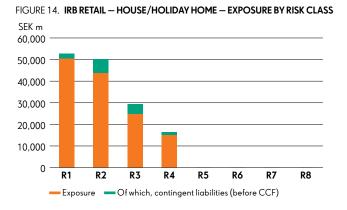
| SEK million   | Gross carrying amount for defaulted exposures |
|---|---|
| Opening balance   | 427   |
| Loans and interest-bearing securities that have defaulted or impaired since the last reporting period | 172   |
| Returned to non-defaulted status  | -70   |
| Amounts written off   | -8  |
| Other changes   | -70   |
| Closing balance   | 451   |

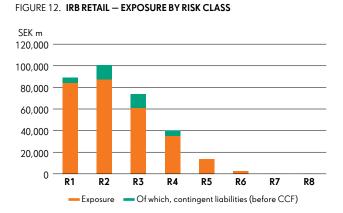
#### 9.12 Exposures per risk class in the PD dimension

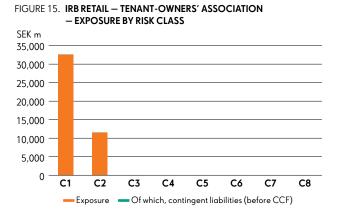
The quality of the portfolio is favourable. A total of 99.1% of corporate exposures and 93.8% of retail exposures in the balance sheet derive from the best risk classes: up to C4 (corporate exposures) and up to R4 (retail exposures).











#### 9.13 Realised outcome in the PD and LGD dimensions

Table 42 shows the PD and LGD estimates as of 31 December 2016 and the outcome for 2017. The estimated outcome for the retail exposures is somewhat above the actual outcome, which indicates that, in the prevailing economic conditions, the PD models overestimate the risk of default. The estimated outcome for corporate exposures is also somewhat above the actual outcome. However, as there are so few outcomes, it is not possible to draw any conclusions based on the result. The exposure-weighted LGD amount is controlled by the above limitation rule, which entails that the lowest total level for LGD is 10% for exposures covered by the IRB approach and where collateral comprises residential properties and 15% where collateral comprises commercial property. Table 43 shows a further allocation of the PD outcome.

TABLE 42 REALISED OUTCOME IN THE PD AND LGD DIMENSIONS

| Exposure class          | PD esti-<br>mates, % | Realised out-<br>come <sup>1), %</sup> | LGD esti-<br>mates | Realised out-<br>come <sup>2), %</sup> |
|-------------------------|----------------------|--|--------------------|--|
| Exposures to corporates | 0.4                  | 0.0                                    | -                  | -                                      |
| Retail exposures        | 0.6                  | 0.2                                    | 10%3)              | 0.5%3)                                 |

<sup>1)</sup> An exposure is regarded as in default if the receivable is more than 60 days past due or if an assessment has been made that the customer will probably not be able to pay agreed interest amounts or cover repayments of the principal.

TABLE 43. IRB APPROACH - BACKTESTING OF PD PER EXPONERINGKLASS (EBA CR9 TABLE)

| Exposure clas           | s                     | PD range | External rating | Weighted<br>average PD | Arithmetic<br>average PD | No. of obligors end of previous year | No. of obligors end of this year | Defaulted<br>obligors in the<br>year | – Of which new obligors | Five-year<br>average his-<br>torical<br>default rate |
|-------------------------|-----------------------|----------|-----------------|------------------------|--------------------------|--------------------------------------|----------------------------------|--------------------------------------|-------------------------|--|
|                         | Corporates –<br>Other | 0-100%   | -               | 0.16%                  | 0.18%                    | 160                                  | 181                              | -                                    | -                       | 0.00%  |
| Exposures to corporates | Corporates –<br>SMEs  | 0-100%   | _               | 0.83%                  | 1.60%                    | 322                                  | 278                              | 2                                    | -                       | 0.27%  |
| Retail                  | Retail – SMEs         | 0-100%   | -               | 0.49%                  | 0.49%                    | 2,135                                | 1,942                            | -                                    | -                       | 0.03%  |
| exposures               | Retail – Other        | 0-100%   | -               | 0.46%                  | 0.47%                    | 157,785                              | 172,115                          | 338                                  | _                       | 0.31%  |

#### 9.14 Comparison of expected loss and outcome

During the comparison period, it can be seen that the expected loss (EL) decreased for both corporate and retail exposures. In both cases, the decrease was attributable to improved credit

quality. The relatively small confirmed loan losses emerging during the year were due, in part, to lenders not managing their interest payments and loan repayments and, in part, because the value of pledged collateral was less than the value of SBAB's receivables.

TABLE 44. COMPARISON OF EXPECTED LOSS BETWEEN OUTCOME AND MODEL, AND PROVISION FOR LOANS REPORTED ACCORDING TO IRB APPROACH 1)

| Exposure class, SEK million                | EL, IRB/F-IRB<br>31 Dec 2016 | EL, IRB/F-IRB<br>31 Dec 2015 | EL, IRB/A-IRB<br>31 Dec 2016 | EL, IRB/A-IRB<br>31 Dec 2015 | Realised<br>outcome<br>2017 | Realised<br>outcome<br>2016 | Total<br>provisions,<br>including<br>guarantees<br>31 Dec 2017 | Total<br>provisions,<br>including<br>guarantees<br>31 Dec 2016 |
|--|------------------------------|------------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|--|--|
| Exposures to corporates                    | 44                           | 46                           | -                            | -                            | -                           | _                           | 19   | 19   |
| Retail exposures                           | -                            | -                            | 157                          | 226                          | 8                           | 13                          | 157  | 187  |
| of which, houses and holiday<br>homes      | _                            | _                            | 65                           | 106                          | 5                           | 9                           | 54   | 67   |
| of which, tenant-owners' rights            | -                            | -                            | 68                           | 89                           | 3                           | 3                           | 93   | 99   |
| of which, tenant-owners' associ-<br>ations | -                            | -                            | 24                           | 31                           | -                           | 1                           | 10   | 21   |
| Total                                      | 44                           | 46                           | 157                          | 226                          | 8                           | 13                          | 176  | 206  |

<sup>1)</sup> Expected loss (EL) has been calculated for the loan receivables that existed at the end of 2015 and 2016, respectively.

In the table, the expected loss is compared with the actual outcome for confirmed loan losses during the outcome years of 2016 and 2017, respectively.

The table does not include off-balance-sheet exposures.

<sup>2)</sup> Realised outcome has been calculated on loans in default where the default was concluded during the year.

<sup>3)</sup> The results are exposure-weighted.

### **10** FUNDING

SBAB's operations are primarily financed through funding in the capital and money markets. Since 2007, funding is also increasingly raised through retail deposits. Funding is conducted, in part, through the Parent Company SBAB Bank AB (publ) and, in part, through SCBC where funding is carried out through the issue of covered bonds. Swedish and international programmes are utilised for funding, which is predominantly conducted in public markets and supplemented with private placements. Funding is mainly targeted at major institutional investors. International funding is primarily aimed at European investors, but SBAB also attracts investors in the US, Japan and other parts of Asia.

#### 10.1 Medium and long-term funding

#### 10.1.1 Senior unsecured funding

SBAB has a medium and long-term funding programme, the Euro Medium Term Note Programme (EMTN programme), which is used both for Swedish and international funding. The EMTN programme has a limit of EUR 13 billion. The programme grants investors the right to demand early redemption of a bond should the Swedish government no longer control at least 51% of the voting rights for the shares in the company. This right is subject to the condition that the Swedish government has not previously guaranteed SBAB's obligations under the bonds, in which case the right to early redemption expires. In all other cases, the terms of the EMTN programme match market practice for similar programmes and entitle investors to early redemption of the bonds if, for example, SBAB fails to pay the interest or capital on time, breaks other terms of the programme (with consideration given to certain healing periods) or if SBAB is placed into receivership or liquidation. Under the EMTN programme, SBAB can choose between various types of interest-rate structures, including floating and fixed rates, and issue bonds in several currencies and denominations. Moreover, the EMTN programme allows SBAB to issue both senior and dated subordinated debt, which may qualify as Tier 2 capital on approval by the Swedish FSA.

Based on the EMTN programme, SBAB has also drawn up a standalone prospectus under which perpetual subordinated debt intended to qualify as Additional Tier 1 capital has been issued. SBAB also has a Japanese Shelf Registration in place, under which SBAB can issue bonds in the Japanese market. Like the EMTN programme, bondholders are entitled to early redemption of a bond if the Swedish government ceases to control at least 51% of the voting rights for shares in the company. This right is subject to the condition that the Swedish government has not previously guaranteed SBAB's obligations under the bonds, in which case the right to early redemption expires.

#### 10.1.2 Secured funding

The subsidiary SCBC has three funding programmes for issuing covered bonds: a Swedish covered bond programme with no fixed limit, an international Euro Medium Term Covered Note Programme (EMTCN programme) with a limit of EUR 16 billion and an Australian Covered Bond Issuance Programme with a limit of AUD 4 billion. The terms of these programmes for issuing covered bonds are in line with market practice for similar programmes

and entail, for example, that investors are not entitled to early redemption of the bonds. The terms also stipulate that SCBC can choose between various types of interest-rate structures, including floating and fixed rates, and issue bonds through these three programmes in several currencies and denominations. The EMTCN programme also allows SCBC to issue bonds with a soft-bullet structure, which entitles the issuer, in certain cases, to postpone the maturity of the bond according to the issuer's terms.

#### 10.2 Short-term funding

SBAB manages its short-term funding primarily through two commercial paper programmes:

- A Swedish commercial paper programme with a limit of SEK 25 billion; and
- A European commercial paper programme with a limit of EUR 3 billion.

The terms of these programmes match market practice for similar programmes and include limited opportunities for an investor to demand early redemption.

SBAB can issue commercial paper in the international market in a variety of currencies through the European programmes, while the Swedish programme is mainly used for SEK. The commercial paper mainly comprises discount paper, meaning that it does not have floating or fixed coupon rates, but is issued in an amount that is more/less than the nominal amount that will be repaid when it falls due.

#### 10.3 Encumbered and unencumbered assets

As a part of SBAB's operations, residential mortgages are transferred to the subsidiary SCBC. These residential mortgages can include credits pledged against mortgages in real estate intended for residential purposes, against tenant-owners' rights or credits that otherwise qualify for inclusion in the cover pool for covered bonds.

SBAB's receivables relating to the transferred residential mortgages purchased by SCBC are repaid (wholly or in part) to SBAB at the same time as covered bonds are issued by SCBC. SBAB's receivables relating to these transfers and other receivables (unless they have arisen as a result of a derivative contract connected to the cover pool) are subordinated receivables without priority, in the event SCBC were to enter receivership or be liquidated.

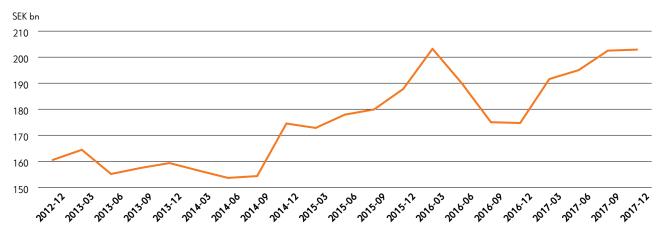
Derivative contracts may be used to ensure a good balance regarding currencies, interest rates and fixed-interest periods in the cover pool. By entering into interest-rate swap contracts with SBAB or external counterparties regarding the assets registered in the cover pool, SCBC is able to convert interest payments received by SCBC in SEK for certain assets that are registered in the cover pool into variable payments linked to 3-month STIBOR. In the same manner, SCBC may enter into currency swaps to hedge currency risks arising from funding in foreign currencies or potential assets in foreign currencies that are registered in the cover pool.

The companies in the SBAB Group are also able to enter into derivative transactions that do not need to be recorded in the cover pool. Derivative contracts may be entered into between the companies in the SBAB Group or with external counterparties. For all counterparties documentation exists in the form of ISDA Master Agreements. In most cases, an agreement is supplemented by a credit support annex (CSA). The Parent Company and SCBC may also enter into repo transactions with certain counterparties. These transactions are governed through Global Master Repurchase Agreements (GMRA). In all instances, the collateral transferred between counterparties under CSAs and GMRAs is in the form of cash.

The cover pool assets consist mainly of loans to the public in the form of loans against mortgages of immovable property intended for residential use or against pledged tenant-owners' rights. The cover pool may also include substitute collateral, and it is consequently possible to include derivatives or securities in the cover pool.

According to the Covered Bonds (Issuance) Act (2003:1223), the value of the assets in the cover pool must always exceed the value of the bonds issued with the encumbered assets as collateral (referred to as overcollateralisation, "OC"). The unutilised scope in the last five-year period is described in Figure 16, Unutilised scope. At 31 December 2017, SCBC had set 2.0% as a minimum requirement for the OC level, which is the level required by the matching rules set out in Chapter 3, sections 8 and 9 of the Covered Bond (Issuance) Act (2003:1223). At 31 December 2017, this level was equal to a volume of SEK 4.1 billion, corresponding to 3.6% of the unencumbered assets in SCBC and 1.9 percent of the unencumbered assets in the SBAB Group.

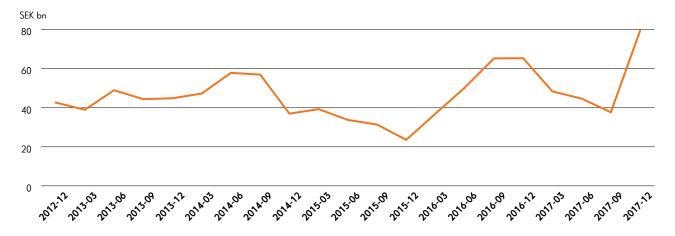
#### FIGURE 16. ASSETS ENCUMBERED



At 31 December 2017, SCBC had set 2.0% as a minimum requirement for the OC level, which is the level required by the matching rules set out in Chapter 3, sections 8 and 9 of the Covered Bond (Issuance) Act (2003:1223). At 31 December 2017, this level was equal to a volume of SEK 4.1 billion, corresponding to 3.6% of the unencumbered assets in SCBC and 1.9 percent of the unencumbered assets in the SBAB Group.

At 31 December 2017, SBAB had assets (reserves) corresponding to SEK 25.0 billion that can constitute covered assets in SCBC. Reserves in SBAB over the past four-year period are shown in Figure 17, Unutilised scope.

FIGURE 17. UNUTILISED SCOPE



Of the assets included in Table 45, Assets encumbered disclosures below, under the heading Unencumbered assets, carrying amount with the amount recognised in the item Other assets, SBAB has reported any items that are not available for mortgaging or other collateral arrangements in the regular operations.

Such assets include deferred tax assets, property, plant and equipment, intangible assets and certain other assets that are not mortgaged, pledged as collateral or used as security in the regular operations.

TABLE 45. ASSETS ENCUMBERED DISCLOSURES

| Assets, SEK million  |         | bered assets,<br>rying amount  | Encum | bered assets,<br>fair value  |         | bered assets,<br>rying amount                   | Unencum | pered assets,<br>fair value                     |
|--|---------|--|-------|--|---------|---|---------|---|
|  |         | of which,<br>hypotheti-<br>cally accept-<br>able as<br>EHQLA and<br>HQLA |       | of which,<br>hypotheti-<br>cally accept-<br>able as<br>EHQLA and<br>HQLA |         | of which,<br>acceptable<br>as EHQLA<br>and HQLA |         | of which,<br>acceptable<br>as EHQLA<br>and HQLA |
| The reporting institution's assets                         | 203,776 | _  | •     |  | 135,209 | 72,715  | -       |   |
| Equity instruments   | -       | -  |       |  | -       | _   |         |   |
| Interest-bearing securities                                | -       | -  | -     | -  | 72,715  | 72,715  | 73,388  | 73,388  |
| of which, covered bonds                                    | -       | -  | -     | -  | 35,757  | 35,757  | 36,114  | 36,114  |
| of which, securitised bonds                                | -       | -  | -     | -  | _       | -   | -       | -   |
| of which, issued by central banks and similar institutions | -       | -  | _     | -  | 25,262  | 25,262  | 25,526  | 25,526  |
| of which, issued by financial institutions                 | -       | -  | -     | -  | 11,696  | 11,696  | 11,749  | 11,749  |
| of which, issued by non-financial corporates               | -       |  | _     | -  | -       | -   | -       | _   |
| Other assets   | 203,776 |  |       |  | 62,494  | -   |         |   |

TABLE 46. COLLATERAL RECEIVED

|  |       | _   | Un  | encumbered collateral  |
|--|-------|---|-----|--|
| SEK million                                      |       | ed collateral received or erest-bearing securities          |     | lateral received or own<br>securities available for<br>encumbrance |
|  |       | of which, hypothetically<br>acceptable as EHQLA<br>and HQLA | ,   | of which, acceptable as<br>EHQLA and HQLA                          |
| Collateral received by the reporting institution | 1,091 |   | 150 | -  |
| Equity instruments                               | -     | -   | -   | -  |
| Interest-bearing securities                      | 150   | =   | 150 | -  |
| Other collateral received                        | 941   | _   | _   | -  |

Assets encumbered, collateral received

TABLE 47. ENCUMBERED ASSETS/COLLATERAL RECEIVED AND RESULTING LIABILITIES

 SEK million
 Matching liabilities, contingent liabilities, contingent plant liabilities or securities lent
 and own interest-bearing securities issued excluding covered bonds and asset-backed securities.

 Certain financial liabilities, book value
 203.776
 203.776

#### 10.4 Funding strategy

The size of the funding portfolio is adjusted based on the volume of the loans outstanding, and on the composition of the assets after taking into consideration such factors as liquidity risk and the company's risk appetite. Funding is also continuously adapted to meet the new liquidity rules included in Basel 3 and the requirements imposed by rating agencies and investors. Funding must be well diversified.

The portfolio must have an effective distribution between secured and unsecured funding and strive for an even distribution of debt maturity dates, i.e. avoiding periods with large concentrations of maturities. The funding portfolio must also comprise funding in several currencies with a balanced and diversified investor base. As a consequence of the company's lending being conducted exclusively in SEK, the majority of the funding is allocated against SEK. The second largest currency for funding is EUR and the Group has been a regular issuer in the EUR market for many years. Funding is to take place through several lead banks and through public offers and private placements. Interest-rate risk and currency risk associated with funding are managed using derivatives, primarily interest-rate and currency swaps.

SBAB's lending is funded mainly by retail deposits and through the financial capital markets in the form of commercial paper and bonds. Long-term funding is mainly conducted via covered bonds.

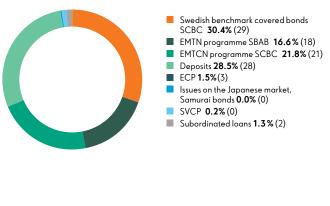
Short-term funding under SBAB's commercial paper programme must be adjusted to market conditions and needs, but always constitute at most a limited share of the total funding portfolio. SBAB's loan assets should be used effectively by acting as collateral for secured funding. The funding mix between SCBC and the Parent Company must be well balanced, taking into account the companies' risk appetites, ratings and total long-term funding costs.

SBAB and SCBC must maintain an active market presence, with favourable and frequent relations with investors in each investor segment.

#### 10.5 Deposit strategy

SBAB has an expressed ambition of gradually increasing the amount of deposits and their share of balance sheet liabilities. Retail deposits are to amount to a significant proportion of total liabilities. To ensure that funding is diversified and to limit dependence on capital markets, deposits are to constitute at least 28% of lending (deposit-to-loan ratio). At 31 December 2017, this ratio was 33%. SBAB aims to raise the deposit-to-loan ratio (DTLR) further moving forward. Figure 19 illustrates the trends for deposits, lending and the deposit-to-loan ratio since 2010.

FIGURE 18. FUNDING SOURCES AND DISTRIBUTION BY CURRENCY FOR DEPOSITS AND FUNDING



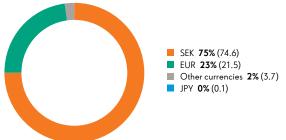
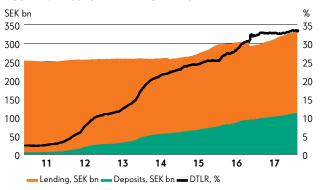


FIGURE 19. **DEPOSITS AND LENDING TRENDS** 



## **U** CREDIT RISK IN TREASURY OPERATIONS

Credit risk arises in treasury operations, in part, in the form of counterparty risks for the derivative and repo contracts entered into by SBAB to manage its financial risks and, in part, in the form of investment risk as a result of investments in the liquidity portfolio and the investment of surplus liquidity.

In accordance with the credit instruction adopted by the Board, credit-risk limits are established by SBAB's Credit Committee for all counterparties in the treasury operations. The utilised limit is calculated as the market value of financial derivatives, repos and investments. For derivative and repo contracts, the effect of collateral pledged or received under CSAs and GMRAs is included in the total net exposure. Moreover, for derivatives, an add-on amount is also calculated for future risk-related changes. The credit-risk limit may be established for a period of no longer than one year, following which a new assessment must be conducted. The decisions of the Credit Committee are reported to the Board at the following Board meeting.

#### 11.1 Counterparty risk

Counterparty risk is the risk that SBAB's financial counterparties cannot meet their commitments pursuant to the completed derivatives and repo contracts, and such risk consists primarily of exposures to well-reputed and established banks. This exposure is predominantly covered by collateral agreements, where the counterparty posts collateral to reduce net exposure.

To limit the potential counterparty credit risk associated with derivative transactions involving non-standardised derivatives that are not cleared through a central counterparty (CCP) approved by the competent authority (in accordance with Regulation (EU) No 648/2012), a framework agreement must have been concluded with the counterparty. In most cases, the framework agreement, an ISDA Master Agreement or similar agreements with terms for final settlement, have been supplemented with a credit support annex (CSA).

The ISDA Master Agreement entails, inter alia, that netting is regulated in the event of bankruptcy. A CSA means that the parties have agreed in advance to transfer collateral if the exposure exceeds a specified threshold amount. The threshold amount and the minimum amount to be transferred to or from the counterparty can vary depending on the parties' ratings. Tables 49 and 50 provide an overview of the distribution of the market value of individual derivative transactions by maturities and rating.

GMRAs are used to limit the counterparty risk associated with repo transactions. These agreements control aspects such as the transfer of collateral to or from the counterparty.

When entered into, CSAs are reconciled on a daily basis or on a weekly basis. When CSAs are in place, collateral is pledged to reduce net exposures. Wherever applicable, the posted and received collateral takes the form of cash with a transfer of title, which entitles the party that receives the collateral to use the collateral in its operations. In certain cases, under the agreements concluded by the Parent Company and SCBC, threshold and minimum transfer amounts are regulated by the parties' rating, the poorer the party's rating, the lower these amounts are. At 31 December 2017, a decline in SBAB's rating would not result in the need for SBAB to provide extra collateral to any external counterparty.

TABLE 48. RISK WEIGHTS FOR COUNTERPARTY-RISK EXPOSURES BY EXPOSURE CLASS (EBA TABLE CCR3)

| SEK million<br>Exposure class | 0%_ | 10% | 20%   | 50%   | Total |
|-------------------------------|-----|-----|-------|-------|-------|
| Institution                   | 0   | 0   | 1,633 | 4,547 | 6,180 |
| Total                         | 0   | 0   | 1,633 | 4,547 | 6,180 |

#### 11.2 Credit quality in the liquidity portfolio

The primary purpose of SBAB's liquidity portfolio is to act as a provision for situations when the ability to obtain liquidity from other sources is limited or rendered materially more difficult. The portfolio comprises liquid, interest-bearing securities with high ratings. Moreover, securities holdings constitute an integrated part of the total credit-risk utilisation for each issuer. Securities holdings in the liquidity portfolio are limited by asset class and by country, and must have the highest rating upon acquisition.

Holdings of covered bonds are risk weighted in relation to their credit quality step in the CRR. At 31 December 2017, all of SBAB's holdings of covered bonds were assigned credit quality step one, which means a risk weight of 10%. The holdings in the portfolio are long-term and at 31 December 2017, the market value was SEK 73.4 billion. At the same date, 96% of the portfolio's value had a rating of Aaa from Moody's or AAA from Standard & Poor's. The various asset classes in the portfolio are securities issued by or guaranteed by central governments, securities issued by sovereigns, supranationals and agencies, securities issued by non-governmental public sector entities and European covered bonds. Liquidity portfolio holdings are either classified as "Securities measured at FVTPL," "Available-for-sale financial assets" or "Investments held to maturity." 1)

 $<sup>^{2)}\,\</sup>mbox{Excluding}$  other liquid short-term investments.

#### Securities measured at FVTPL:

- Securities issued by central governments: SEK 5.5 billion;
- Securities guaranteed by central governments, SEK 2.2 billion;
- Securities issued by sovereigns, supranationals and agencies, SEK 0.7 billion;
- Securities issued by non-governmental public sector entities, SEK 1.3 billion; and
- European covered bonds, SEK 3.2 billion.

#### Available-for-sale financial assets:

- Securities issued by central governments, SEK 8.2 billion;
- Securities guaranteed by central governments, SEK 0.1 billion;
- Securities issued by sovereigns, supranationals and agencies, SEK 1.5 billion
- Securities issued by non-governmental public sector entities, SEK 6.9 billion; and
- European covered bonds, SEK 25.4 billion.

#### Investments held to maturity:

- Securities issued by central governments, SEK 9.7 billion;
- Securities issued by sovereigns, supranationals and agencies, SEK 0.2 billion;
- Securities issued by non-governmental public sector entities, SEK 1.0 billion; and
- European covered bonds, SEK 7.5 billion.
- All securities are recognised above at their market value, regardless of how they have been classified in the accounts.
   Credit-risk assessment is conducted on the basis of assessed future cash flows and the market value of the collateral.

#### TABLE 49. **DERIVATIVES**

| SEK million                    | Total nominal value | Positive market values | Negative market values |  |
|--------------------------------|---------------------|------------------------|------------------------|--|
| <1 year, Interest-rate-related | 65,256              | 300                    | -82                    |  |
| >1 year, Interest-rate-related | 229,638             | 2,093                  | -1,176                 |  |
| <1 year, Currency-related      | 27,792              | 809                    | -342                   |  |
| >1 year, Currency-related      | 63,723              | 2,627                  | -43                    |  |
| Total                          | 386,409             | 5,829                  | -1,643                 |  |

#### TABLE 50. DERIVATIVES SPECIFIED BY RATING

| SEK million      | Net market value | Positive market values | Negative market values |
|------------------|------------------|------------------------|------------------------|
| AA-              | 42               | 113                    | -71                    |
| AA-              | 1,305            | 1,663                  | -358                   |
| A+               | 355              | 693                    | -338                   |
| A                | 2,247            | 2,737                  | -490                   |
| A-               | -57              | 133                    | -190                   |
| BBB+             | 449              | 480                    | -31                    |
| BBB              | -119             | 8                      | -127                   |
| BBB-             | -36              | 2                      | -38                    |
| Total            | 4,186            | 5,829                  | -1,643                 |
| Collateral       |                  |                        | 2,988                  |
| Netting benefits |                  |                        | 1,446                  |

#### TABLE 51. **NET CREDIT EXPOSURE FOR DERIVATIVES**

#### SEK million

| SER IIIIIIIOII                         |        |
|--|--------|
| Gross positive fair value of contracts | 5,829  |
| - Netting benefits                     | -901   |
| = netted current credit exposure       | 4,928  |
| - Collateral held                      | -4,563 |
| = net credit exposure for derivatives  | 365    |

## MARKET RISK

### Market risk is the risk of loss or reduced future income due to market fluctuations.

SBAB is characterised by low risk taking, with the Board determining the overall risk appetite and setting the limits for the risk metric Value at Risk (VaR). In addition to VaR, a number of supplementary risk-based metrics set by the CEO of SBAB are also subject to limitation. Risk Control checks compliance with current risk levels and limits on a daily basis. Market risk is followed up at Group level as well as individual levels.

The general principle governing SBAB's exposure to market risk is that the level of risk taking should be low. As a general principle, interest-rate risk is to be mitigated through direct funding or the use of derivatives. Currency risks are mitigated as funding in international currency is hedged through currency swaps or invested in matching currencies.

#### 12.1 Value at Risk

VaR is a comprehensive portfolio metric expressing the potential loss that could occur given a certain level of probability and holding period. SBAB's model is a historical model and applies percentiles in historical market data from the past two years.

Limits for the day-to-day follow up of VaR are set at two levels: SBAB's total market risk, and all market risks that Treasury is responsible for managing. The limit for SBAB's total market risk is based on the VaR metric included in the model for economic capital and applies a probability level of 99.97% and a holding period of one year, while the other metric applies a probability level of 99% and a holding period of one day.

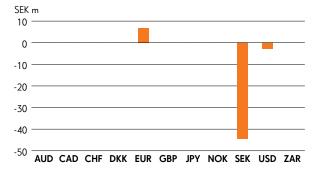
As per 31 December 2017, SBAB's total market risk exposure was SEK 1,029 million (1,118), compared with the limit of SEK 1,950 million (1,650). Exposure to market risks managed by Treasury was SEK 38 million (42) and the limit was SEK 70 million (55).

#### 12.2 Supplementary risk metrics

In addition to the overall VaR limits determined by the Board, the CEO has set a number of supplementary risk metrics for different kinds of market risks to which SBAB is exposed. For interest-rate risk, there are limits for parallel shifts, where the effect on the present value of a one percentage-point shift in the yield curve is measured, and curve risk where the effect on the present value is measured in different scenarios, in which the short end of the yield curve is adjusted down (up) and the long end is adjusted up (down). Currency risk is controlled by measuring the effect on present value when currency exchange rates change, and in the liquidity portfolio by controlling the matching of the principal in each currency. There are also limits for basis risk and income volatility from basis spreads.

Income volatility from basis spreads arises because the derivatives used to hedge funding are recognised at fair value while the underlying funding is recognised at book value, in accordance with the accounting standards applied by SBAB. This causes effects to arise in operating profit that do not correspond to the actual risk to which SBAB's portfolio is exposed. The income volatility from basis spreads is expected to decrease in the future, as SBAB has applied hedge accounting through cash-flow hedges since 2014, which means that income volatility will only be calculated for existing swap contracts that are not subject to cash flow hedges.

FIGURE 20. INTEREST-RATE RISK BROKEN DOWN BY CURRENCY IN THE EVENT OF A PARALLEL SHIFT IN THE YIELD CURVE OF +1 PERCENTAGE POINT



The interest-rate risk totalled negative SEK 41.0 million at 31 December 2017.

#### 12.3 Interest-rate risk in other operations

Interest-rate risk in other operations is measured and reported quarterly to the Swedish FSA in accordance with FFFS 2007:4. For the calculation of interest-rate risk in other operations, a maturity of one day is assumed for deposits that are not time limited. As per 31 December 2017, the effect on the present value was negative SEK 885.4 million (negative: 818.2) for a 2 percentage-point parallel upward shift and a positive SEK 909.3 million (834.6) for a 2 percentage-point parallel downward shift. The exposure distributed by currency is presented in Figure 21.

The net interest income effect is measured to capture the impact of changes in interest rates on profit or loss. The metric reflects the differences in volume and fixed-interest periods between assets, liabilities and derivatives in other operations. The net interest income effect is based on an instantaneous parallel shift of one percentage point up and down over a 12-month time horizon with no changes to the balance sheet. At the end of the year, the net interest income effect was negative SEK 53 million (negative: 97).

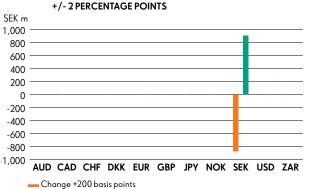
#### 12.4 Risks in the trading book

The trading book consists of investments in SBAB's trading portfolio and the part of the liquidity portfolio that is classified as "financial assets measured at FVTPL."

The liquidity portfolio is subject to a minimised interest-rate risk. The risk in the liquidity portfolio primarily derives from credit risk. Previously, the trading portfolio gave SBAB a limited mandate to accept market risk by taking its own positions in the market. At 31 December 2017, there were no open positions in the trading portfolio.

Interest, currency, credit and liquidity risks in the trading book are managed within SBAB as an integrated part of the balance sheet together with other operations. Credit risks in the form of issuer and counterparty risks in the trading book are governed by credit-risk limits set by SBAB's Credit Committee.

FIGURE 21. INTEREST-RATE RISK IN OTHER OPERATIONS IN THE EVENT OF A
PARALLEL SHIFT IN THE YIELD CURVE OF



Change -200 basis points

#### 12.5. Regulatory capital requirement for market risk

SBAB uses the standardised approach to quantify capital requirements for market risk in Pillar 1. The regulatory capital requirement for market risk is shown in Table 52.

TABLE 52. RISK EXPOSURE AMOUNTS AND CAPITAL REQUIREMENTS FOR MARKET RISK (EBA MR1-B TABLE)

| Risk class                                | Risk exposure amount | Capital require-<br>ment |  |  |
|---|----------------------|--------------------------|--|--|
| Interest-rate risk (general and specific) | 413                  | 33                       |  |  |
| Currency risk                             | 746                  | 60                       |  |  |
| Total                                     | 1,159                | 93                       |  |  |

## **13** LIQUIDITY RISK

Liquidity risk is defined as the risk that SBAB will not be able to meet its payment obligations in conjunction with due dates without the related cost increasing significantly.

#### 13.1 Liquidity strategy and liquidity risk management

Liquidity risk is defined by SBAB as a necessary risk and must be maintained at such a level that SBAB can manage a period of acute liquidity crisis without dependency on the capital market. SBAB and SCBC are managed collectively as one sub-consolidated liquidity group with regard to liquidity management and control in accordance with Regulation (EU) No. 575/2013 of the European Parliament and of the Council, which allows free disposition of liquid funds in the liquidity group. The Group has a central liquidity management function through which all of the Group's liquidity in all currencies in forecast and managed in a shared Group account structure.

The overall aim of SBAB's liquidity strategy is to ensure SBAB's survival in terms of liquidity and that the company can effectively meet its payment obligations. Key features of the strategy are proactive and continuous liquidity planning, active debt management and the scope, content and management of SBAB's liquidity reserve. SBAB has long identified and allowed for the importance of well-functioning and proactive liquidity risk management.

Derivative transactions are used to manage financial risks that arise in conjunction with borrowing and lending. The majority of SBAB's interest-rate-related derivative transactions with external financial counterparties are cleared through clearing houses. SBAB comprises the primary swap counterparty for derivative transactions that SCBC needs to enter to hedge risks related to borrowing and lending.

#### 13.1.1 Broad and diversified funding

SBAB has maintained an active international capital market presence since 1989. Short-term, mid-term and long-term funding takes place on a global basis. Moreover, the SBAB Group has access to the covered bond market, both in Sweden and internationally, through SCBC. In addition to issuing bonds, SBAB is funded by retail deposits. In the last few years, this source of funding has come to comprise an increasingly large share of liabilities, which has made the SBAB Group less dependent on unsecured funding. This trend is deemed to reduce the Group's refinancing risk since the market for unsecured funding is significantly more volatile than the markets for secured funding and deposits from the public.

Another key element of the SBAB Group's financing strategy is to achieve an even maturity profile over time. This is achieved by actively choosing maturities during the issue process to avoid excessive concentrations of future maturities and by continuously repurchasing and exchanging debt outstanding (active debt management). Compared with the European covered bonds market, the Swedish market has relatively large volumes outstanding of individual loans, but concentration, liquidity and refinancing risks are mitigated by historically good possibilities for repurchasing and extension prior to loans maturing.

#### 13.1.2 Liquidity reserve

The liquidity reserve is defined as the reserve value of the securities in the liquidity portfolio and other liquid short-term investments. When calculating the reserve value of the securities included in the liquidity reserve, the SBAB Group applies the haircuts issued in accordance with the Riksbank's Guidelines for Collateral Management in the regulatory framework for RIX and monetary policy instruments.

The liquidity portfolio acts as a buffer, as the securities in the portfolio can be sold to free up liquidity in stressed conditions, either through repos or through the sales of parts of the portfolio. The portfolio holdings are long-term and mainly comprise liquid, interest-bearing securities with high ratings, where 100% of the portfolio's holdings can be used as collateral for repos with the Riksbank or the European Central Bank (ECB). The size of SBAB's holdings of individual securities as a percentage of the total volume outstanding is also limited with the aim of reducing concentration risk.

Excluding pledged collateral, SBAB's liquidity reserve amounted to SEK 69.4 billion at 31 December 2017 (the reserve value at the Riksbank or the ECB). The market value amounted to SEK 72.7 billion with an average maturity of 2.2 years. Moreover, unutilised issuance capacity for covered bonds comprises an additional reserve that is not included in the calculation of the liquidity metrics on the next page.

#### 13.1.3 Continuous monitoring of liquidity risk

Active debt management, the liquidity of the balance sheet and the size of SBAB's liquidity reserves are key factors in SBAB's liquidity risk management. By viewing funding activities as a natural part of both operational work and the strategic planning of liquidity risk, concentrations of excessively large funding maturities are avoided. Another important part of the ongoing liquidity risk management is the continuous monitoring and testing of the practical liquidity value of the liquidity portfolio in the secondary market.

#### 13.1.4 Contingency plan

SBAB has a contingency plan for the management of liquidity crises. The contingency plan contains a clear delegation of responsibility for the personnel concerned, as well as instructions on how the company can rectify potential liquidity deficits. The plan stipulates suitable actions to handle the implications of various types of crisis scenarios and contains definitions of events that cause and escalate the contingency plan. The contingency plan must be regularly tested and updated based, for example, on the results of stress tests.

TABLE 53. LIQUIDITY RESERVE

|  |          | DISTRIBUTION BY CURRENCY |        |       |       |  |
|--|----------|--------------------------|--------|-------|-------|--|
| Liquidity reserve, SEK million   | Dec 2017 | SEK                      | EUR    | USD   | Other |  |
| Cash and balances at central banks   | 500      | 500                      | -      | _     | _     |  |
| Balances at other banks  | _        | -                        | -      | -     | _     |  |
| Securities issued or guaranteed by governments, central banks or multinational development banks |          |                          |        |       |       |  |
| DUIKS  | 28,033   | 17,926                   | 7,714  | 2,393 | -     |  |
| Securities issued or guaranteed by municipalities or non-public sector entities                  | 8,621    | 7,003                    | 176    | 1,442 | _     |  |
| Covered bonds issued by other institutions   | 35,501   | 30,146                   | 4,564  | 791   | _     |  |
| Covered bonds issued by SBAB   | -        | _                        | -      | -     | _     |  |
| Securities issued by non-financial corporates  | _        | _                        | -      | -     | _     |  |
| Securities issued by financial corporates (excl. covered bonds)                                  | -        | _                        | -      | -     | _     |  |
| Other securities   | -        | -                        | -      | -     | -     |  |
| Bank and loan facilities   | -        | -                        | -      | _     | -     |  |
| Total  | 72,655   | 55,575                   | 12,454 | 4,626 |       |  |
| Distribution by currency   |          | 76%                      | 17%    | 6%    | -     |  |

#### 13.2 Liquidity risk — Short-term liquidity risk

SBAB is subject to the Swedish FSA's liquidity coverage ratio (LCR) requirements as defined in FFFS 2012:6. The LCR measures the amount of assets that can be converted to cash in relation to a stressed liquidity need for a 30-day period. The regulations stipulate that the institutions covered by them must, at every point in time, have an LCR amounting to at least 100%, both at the total level and for EUR and USD isolated.

At 31 December 2017, the LCR, in accordance with the definition in FFFS 2012:6<sup>1</sup>, was 226% at the consolidated level, and 184,691% and 141%, respectively, in EUR and USD. In 2017, SBAB's LCR never fell below 166%.

At 31 December 2017, the LCR, in accordance with the EU's Delegated Regulation (EU) 2015/61, was 249% at the consolidated level, and 16,288% and 140%, respectively, in EUR and USD. In 2017, SBAB's LCR never fell below 220%. According to the EU's Delegated Regulation, all credit institutions must meet a total LCR of at least 80%. The requirement will be raised to 100% from 1 January 2018.

Internally within the SBAB Group, the liquidity risk is measured and stress tested by totalling the maximum conceivable need for liquidity for each coming day. This liquidity risk metric is referred to as the survival horizon. The calculations are based on a crisis scenario in which all loans are assumed to be extended on maturity, meaning that no liquidity is added through loan redemption, and where no funding is available. Retail deposits are treated with a conservative assumption, whereby withdrawals from the portfolio are distributed over time on the basis of historical balance volatility. Accordingly, the maximum need for liquidity can be identified for every given future period, and the necessary liquidity reserve can be established. The survival horizon corresponds to the number of days for which the liquidity reserve covers the maximum outflow and it has been limited to a minimum of 180 days at the consolidated currency level at any given time. At 31 December 2017, the survival horizon was 330 days at the consolidated level, and 252 days for SEK, 977 days for EUR and 500 days for USD respectively. In 2017, the survival horizon was never less than 312 days (244) at the consolidated level.

In addition to these metrics, the concentration of debt maturities in the next six months is also limited, so that the maximum debt maturity in a 30-day period does not exceed 60% of the size of the liquidity reserve.

TABLE 54. LIQUIDITY COVERAGE RATIO UNDER FFFS 2012:6

| SEK million                | Total  | EUR      | USD   |
|----------------------------|--------|----------|-------|
| Liquidity coverage ratio   | 226%   | 184,691% | 141%  |
| Liquid assets              | 67,331 | 11,770   | 4,507 |
| Assets with 100% weight    | 37,155 | 7,891    | 3,835 |
| Assets with 85% weight     | 30,176 | 3,879    | 673   |
| Cash outflows              | 34,131 | 25       | 3,195 |
| Deposits from the public   | 19,994 | _        | _     |
| Market funding             | 6,138  | _        | 944   |
| Other outflows             | 7,999  | 25       | 2,251 |
| Cash inflows               | 6,785  | 4,166    | 2     |
| Inflow from retail lending |        |          |       |
|                            | 811    | 0        | 0     |
| Other inflows              | 5,974  | 4,166    | 2     |

Liquidity coverage ratio = liquid assets/(cash outflows - cash inflows). The LCR is recognised according to the definitions and weights in FFFS 2012:6. The calculation takes into consideration that assets with 85% weight must not constitute more than 40% of the reserve, and that inflows must not exceed 75% of the outflow in each column.

<sup>1)</sup> In November 2017, the Swedish FSA decided that the regulations FFFS 2011:37 and 2012:6 would cease to apply from 1 January 2018. Since the liquidity coverage ratio in Table 54 is based on these regulations, these metrics will no longer be calculated or reported from 31 December 2017.

### 13.2.1 Liquidity coverage ratio pursuant to the European Commission delegated regulation

In accordance with the EBA's guidelines (EBA/GL/2017/01), detailed information is reported about the liquidity coverage ratio (LCR) as defined in the European Commission delegated regulation (EU) 2015/61 in Table 55 below. The values presented are simple average values for observations at the end of the month over the 12-month period preceding the end of each quarter (LTM).

In 2017, the item "Outflows related to derivative exposures and other collateral requirements" averaged SEK 5.7 billion in accordance with Table 55. The majority of the amount pertains to derivative liabilities for which SBAB has posted collateral. Slightly

more than SEK 1 billion corresponds to a simulated outflow as a result of additional collateral being required in extremely stressed market scenarios pursuant to Article 30 (3) of the European Commission delegated regulation (EU) 2015/61. The amount also includes excess collateral posted by counterparties and contracted collateral that has yet to be posted by the bank.

#### 13.3 Liquidity risk – Structural liquidity risk

Structural liquidity risk pertains to when funding opportunities become more costly, or there is a shortage in supply, as a result of differences in structure and maturity between lending and funding. SBAB aims to have a diversified funding. The SBAB Group has adopted a conservative approach to the management of

TABLE 55. LIQUIDITY COVERAGE RATIO UNDER THE CRR

| IADLE 3  | 5. EIGOIDITY COVERAGE RATIO UNDER THE CRR   |                                  |                |                |                                |                |                |                |                |
|----------|---|----------------------------------|----------------|----------------|--------------------------------|----------------|----------------|----------------|----------------|
|          |   | TOTAL UNWEIGHTED VALUE (AVERAGE) |                |                | TOTAL WEIGHTED VALUE (AVERAGE) |                |                |                |                |
|          |   | 31 Dec<br>2017                   | 30 Sep<br>2017 | 30 Jun<br>2017 | 31 Mar<br>2017                 | 31 Dec<br>2017 | 30 Sep<br>2017 | 30 Jun<br>2017 | 31 Mar<br>2017 |
| Number   | of data points used in the calculation of averages  | 12                               | 12             | 10             | 7                              | 12             | 12             | 10             | 7              |
| High-qu  | ality liquid assets (HQLA)  |                                  |                |                |                                |                |                |                |                |
| 1        | Total HQLA  | -                                | -              | _              | -                              | 71,947         | 70,311         | 70,120         | 68,661         |
| Cash flo | ws  |                                  |                |                |                                |                |                |                |                |
| 2        | Retail deposits and deposits from small business customers, of which:   | 83,989                           | 81,625         | 80,199         | 79,495                         | 6,736          | 6,528          | 6,403          | 6,351          |
| 3        | Stable deposits   | 56,559                           | 54,898         | 53,788         | 53,021                         | 2,828          | 2,745          | 2,689          | 2,651          |
| 4        | Less stable deposits  | 27,430                           | 26,727         | 26,411         | 26,473                         | 3,908          | 3,783          | 3,713          | 3,700          |
| 5        | Unsecured wholesale funding   | 23,685                           | 22,022         | 21,246         | 20,211                         | 11,721         | 10,985         | 10,742         | 10,259         |
| 6        | Operational deposits (all counterparties) and deposits in networks of cooperative banks   | _                                | -              | -              | -                              | -              | -              | -              | -              |
| 7        | Non-operational deposits (all counterparties)   | 20,439                           | 18,929         | 18,077         | 17,179                         | 8,474          | 7,891          | 7,573          | 7,227          |
| 8        | Unsecured debt  | 3,246                            | 3,093          | 3,169          | 3,033                          | 3,246          | 3,093          | 3,169          | 3,033          |
| 9        | Secured wholesale funding   |                                  |                |                |                                | 63             | 68             | 96             | 75             |
| 10       | Additional requirements   | 47,251                           | 44,831         | 44,707         | 42,474                         | 11,401         | 10,706         | 12,072         | 12,482         |
| 11       | Outflows related to derivative exposures and other collateral requirements  | 5,696                            | 4,821          | 5,098          | 5,222                          | 5,696          | 4,821          | 5,098          | 5,222          |
| 12       | Outflows related to loss of funding on debt products  | 3,818                            | 4,088          | 5,256          | 5,682                          | 3,818          | 4,088          | 5,256          | 5,682          |
| 13       | Credit and liquidity facilities   | 37,737                           | 35,921         | 34,352         | 31,571                         | 1,887          | 1,796          | 1,718          | 1,579          |
| 14       | Other contractual funding obligations   | 127                              | 121            | 141            | 171                            | 5              | 4              | 5              | 7              |
| 15       | Other contingent funding obligations  | 11,202                           | 10,527         | 10,079         | 9,621                          | 5,572          | 5,439          | 5,236          | 5,021          |
| 16       | TOTAL CASH OUTFLOWS   | -                                | _              | _              | -                              | 29,904         | 28,262         | 29,270         | 29,130         |
| Cash inf | lows  |                                  |                |                |                                |                |                |                |                |
| 17       | Secured lending (e.g. reverse repos)  | 5,145                            | 5,173          | 4,867          | 4,552                          | 167            | 173            | 174            | 174            |
| 18       | Inflows from fully performing exposures   | 1,627                            | 1,570          | 2,769          | 3,247                          | 1,033          | 1,003          | 1,600          | 1,838          |
| 19       | Other cash inflows  | 6,811                            | 6,328          | 6,982          | 7,141                          | 6,811          | 6,328          | 6,982          | 7,141          |
| EU-19a   | (Difference between total weighted inflows and total weighted outflows arising from transactions in third countries where there are transfer restrictions or which are denominated in non-convertible currencies) | -                                | -              | -              | -                              | -              | -              | _              | -              |
| EU-19b   | (Excess inflows from a related specialised credit institution)  | -                                | _              | _              | -                              | -              | _              | _              | -              |
| 20       | Total cash inflows  | 27,165                           | 26,143         | 29,237         | 29,881                         | 16,021         | 15,007         | 17,474         | 18,250         |
| EU-20a   | Fully exempt inflows  | -                                | -              | _              | -                              | -              | _              | -              | -              |
| EU-20b   | Inflows subject to 90% cap  | -                                | -              | -              | -                              | -              | _              | -              | -              |
| EU-20c   | Inflows subject to 75% cap  | 13,583                           | 13,071         | 14,618         | 14,940                         | 8,010          | 7,503          | 8,737          | 9,125          |
|          |   |                                  |                |                |                                | TC             | OTAL ADJUS     | TED VALUE      |                |
| 21       | Liquidity buffer  |                                  |                |                |                                | 71,947         | 70,311         | 70,120         | 68,661         |
| 22       | Total net cash outflows   |                                  |                |                |                                | 27,470         | 26,202         | 25,775         | 25,033         |
| 23       | Liquidity coverage ratio (%)  |                                  |                |                |                                | 262%           | 268%           | 272%           | 274%           |

funding. A larger share of future maturities is being pre-financed and the share of total funding attributable to short-term funding is being maintained at a low level. SBAB works actively to ensure an even distribution of maturities, while at the same time extending the maturity of the liabilities. Monitoring of upcoming maturities, repurchases, replacements and pre-financing constitute key elements of the practical management aimed at reducing the risk.

SBAB limits its dependence on market funding by applying a limit on the ratio between retail deposits and lending to the public. At 31 December 2017, the ratio was 33% compared with a limit of 28%.

Access to funding from covered bonds is further secured by monitoring, at each point in time, including in stressed circumstances, that the overcollateralisation in the cover pool exceeds Moody's requirements for Aaa ratings.

SBAB also measures its structural liquidity risk through a metric for maturity matching that measures the relationship between the maturities of assets and liabilities from a liquidity perspective at various points in the future. This can be viewed as SBAB's internal version of the net stable funding ratio (NSFR), in which the maturity, in terms of liquidity, on deposits and lending is estimated by means of SBAB's own statistical models, which are based on historical data of the behaviour of SBAB's customers. The metric is subject to a one-year floor limit of not less than 90% at a consolidated level, 60% for USD and currencies for which the liability exceeds 5% of total liabilities. At 31 December 2017, maturity matching was 128% at the consolidated level, 124% in SEK, 131% in EUR and 106% in USD, respectively.

#### 13.4 Stress tests for liquidity risk

SBAB has a model for stress testing liquidity risk aimed at internal requirements for analytical and contingency management of liquidity risk. The stress tests have been designed in line with the Swedish FSA's regulations on liquidity management, which impose general requirements on stress tests (FFFS 2010:7). The models analyse SBAB's capacity to meet the need for cash and cash equivalents in various market scenarios and to assess the effect of protracted stress on SBAB's ability to finance its operations. The scenarios are designed on the basis of SBAB's specific risk profile and cover both company-specific and market-related scenarios that may render the financing of the operations difficult. The scenarios are divided into different stages that illustrate increasing levels of stress intensity to reflect how a crisis can continuously deteriorate.

The scenarios simulated by the stress tests include:

- The 2008/2009 financial crisis stress in the funding operations, with funding programmes closing at various stages
- Rating-related stress, with gradually lower ratings for SBAB and SCBC
- Falling property market prices various levels of falling prices, which increase LTV ratios, thus lowering the share of funding that can be conducted via covered bonds
- Stress of liquidity in the liquidity reserve
- Sizeable fluctuations in interest and currency exchange rates, leading to larger amounts having to be secured through CSAs, which could thus impair liquidity

The stress tests are under continuous development and the assumptions on which the various scenarios are based are assessed regularly. The stress tests are conducted and reported quarterly, with results assessed against SBAB's established risk appetite and used to adapt strategies and guidelines.

#### 13.5 Developments in liquidity risk regulation

The area of liquidity risk is subject to constant regulatory development. The following regulatory changes are on the agenda for the immediate future:

### 13.5.1 New version of the Capital Requirements Regulation (CRR)

In November 2016, the European Commission published a proposal for a new Capital Requirements Regulation (CRR II), which is intended to replace the current directive that entered force in 2014. The largest amendment to liquidity risk is the introduction of a mandatory requirement in terms of a net stable funding ratio (NSFR). Since 2014, SBAB has regularly calculated NSFR based on the Basel Committee's standard, despite the lack of any quantitative requirement. According to the proposal in the CRR II, the mandatory NSFR requirement within the EU will commence two years after adoption of the regulation, which had yet to take place at the end of 2017.

#### 13.5.2 Other regulatory changes

Additional Liquidity Monitoring Metrics (ALMM)

Six different liquidity risk metrics prepared by the EBA, which are to be reported monthly to the Swedish FSA and used for comparison and supervision. At present, no quantitative requirements apply for ALMM. On 1 March 2018, a new technical standard was introduced that entailed certain changes in the calculation and reporting of the various metrics listed below:

- Maturity Ladder shows the maturities of assets and liabilities.
- Concentration of counterbalancing capacity per issuer/counterparty, showing the bank's holdings of liquid assets or liquidity facilities to meet temporary disruptions in access to liquidity in the market.
- Concentration of financing counterparties, showing the counterparties that represent such a large percentage that losing them would affect the bank's liquidity risk.
- Concentration of financing products, showing the financing products that represent such a large percentage that losing them would affect the bank's liquidity risk.
- Prices for various financing maturities.
- Extension of maturing financing during the reporting period.

#### Repeal of regulations

As of 1 January 2018, the European Commission delegated regulation with regard to the liquidity coverage ratio was fully phased in with a quantitative requirement of 100%. Moreover, the Capital Requirements Regulation includes requirements pertaining to other binding, directly applicable liquidity provisions (such as, ALMM as mentioned previously). Given the above, in December 2017, the Swedish FSA decided to repeal FFFS 2012:6 regarding requirements for a liquidity coverage ratio and reporting of liquid assets and cash flows, and FFFS 2011:37 regarding the reporting of liquidity risks for credit institutions and investment firms from 1 January 2018.

## **OPERATIONAL RISK**

Operational risk means the risk of losses due to inappropriate or unsuccessful processes, human error, faulty systems or external events. The definition includes legal risk.

#### 14.1 Risk management

The process for managing operational risk is based on the continuous identification, analysis and assessment of risks as well as their management and follow-up. An analysis of risk levels is reported to the Board, the CEO and the Executive Management. The Operational Risk function within the Credit and Risk department has overall responsibility for the methods and procedures used in the risk management process. The management of operational risk is carried out based on SBAB's risk appetite and the significant processes for the business. This entails constant efforts to develop employees' risk awareness and the bank's risk culture, to improve processes and procedures as well as to provide the right tools to efficiently manage day-to-day operational risk.

#### 14.2 Self-evaluation

The self-evaluation process encompasses the identification and evaluation of operational risks in all significant processes. Self-evaluation is carried out using a shared method that includes system support. The result of the self-evaluation is reported annually to the Board, the CEO and the Executive Management.

#### 14.3 Incident management

SBAB has procedures and system support intended to facilitate the reporting and follow-up of incidents. The Operational Risk function supports the operations with the analysis of reported incidents to ensure that root causes are identified and suitable measures are implemented. Even incidents that have not caused direct damage or financial loss are reported, to promote proactive risk management.

#### 14.4 New product approval policy (NPAP)

SBAB has an NPAP in place for the implementation of new or significantly altered products, services, markets, processes and IT systems as well as major operational and organisational changes at SBAB. The aim of the NPAP is the advance identification and management of risks related to changes.

#### 14.5 Security and contingency management

At SBAB, security involves protecting customers, individuals, information and physical assets. Information must be kept confidential and be reliable and accurate, and it must be made available to the appropriate people as and when needed. SBAB's security efforts include technical, organisational and administrative measures, which are based on the international information security standard ISO/IEC 27000.

SBAB works in a pre-emptive manner to prevent security incidents that may affect the company's ability to operate. The bank has an established contingency organisation that is responsible for crisis and catastrophe management, and communication in case of serious incidents, crises or disasters.

#### 14.6 Cyber risk

The cyber threat to the Swedish financial sector is extensive and persistent. SBAB has a dedicated security team comprised of specialists tasked with attaining and maintaining a high level of cyber security for the bank. This is achieved through proactive efforts to ensure strong, digital perimeter protection and a high level of security within this protective shield. The team endeavours to increase risk and security awareness throughout SBAB with the aim of achieving the right level of security for our customers, systems and personnel. The security team are also responsible for SBAB's Security Incident Response Team (SIRT) function, which is responsible for identifying, analysing and rectifying IT security incidents. The security team act as an agile support team across SBAB, with a focus on transparency and collaboration.

#### 14.7 Risk and compliance coordination

As part of strengthening SBAB's risk culture the bank has established risk and compliance coordinators (RCC) in the first line. The RCCs support the business managers with a focus on risk management, process mapping, internal controls, incident management, and regulatory compliance.

#### 14.8 Capital requirements for operational risks

SBAB uses the standardised approach to calculate capital requirements for operational risk within the Pillar 1 framework. This approach calculates the capital requirement based on 12–18% of the business area's average operating income over the past three years. The capital requirement for operational risk is shown in Table 11, Risk exposure amounts and capital requirements.

## **BUSINESS RISK**

By business risk, SBAB means the risk of declining earnings due to harsher competition, inappropriate strategies or erroneous decisions.

Business risk also includes strategic risk, reputational risk and margin risk, which arise when the interest margins on lending and borrowing have different maturities. SBAB defines business risk as a necessary risk. New business is usually relatively similar to the business SBAB already has. Changes in the form of new products or new markets may only constitute a small part of SBAB's activities and must be implemented at such a pace that SBAB does not substantially jeopardise its earnings level and with great probability avoids pressure on its own funds.

As the accounting standards used by SBAB require that certain components of the portfolio are measured at market value while other components are recognised at their carrying amount, this has effects on the operating profit, and consequently also on own funds, that do not correspond to the actual risk to which the portfolio is exposed. To limit such effects, income volatility must be measured and limited. Business risk is included in the calculation of the Pillar 2 capital requirement as part of SBAB's stress tests. See also the section 6.3.5.3 Business risk.

# **SBAB!**

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