

Basel Pillar 3 disclosure



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BASEL PILLAR 3 DISCLOSURE

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OVERVIEW OF RISK MANAGEMENT

INTRODUCTION

This risk and capital management report (Pillar 3 disclosure) covers the operations of FirstRand Limited (FirstRand or the group) and complies with:

- the Basel Committee on Banking Supervision's (BCBS) revised Pillar 3 disclosure requirements (Pillar 3 standard);
- South African Reserve Bank (SARB) directives 4, 6 and 11 of 2014, and 3 of 2015; and
- Regulation 43 of the *Regulations relating to Banks* (Regulations), issued in terms of the Banks Act, 1990 (Act No. 94 of 1990), where not superseded by the revised Pillar 3 disclosure requirements.

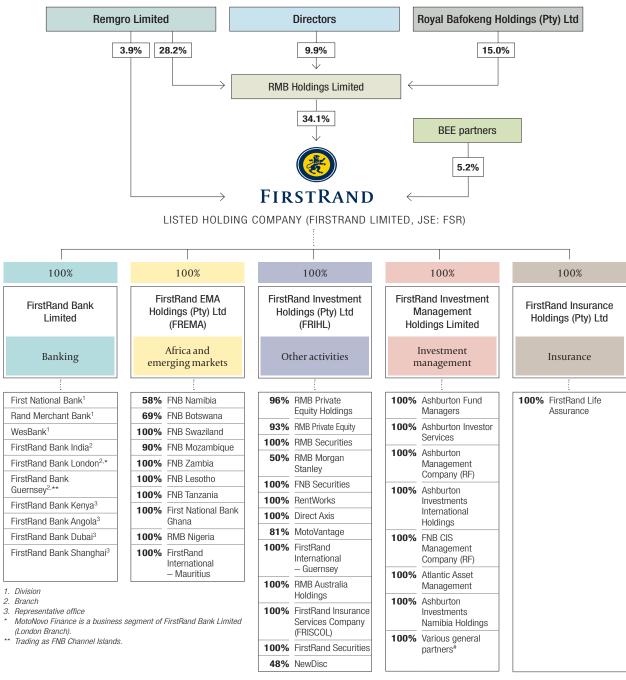
Some differences exist between the practices, approaches, processes and policies of FirstRand Bank Limited (the bank or FRB) and its fellow wholly-owned subsidiaries. These are highlighted by reference to the appropriate entity, where necessary. This report has been internally verified by the group's governance processes in line with the group's public disclosure policy.

The public disclosure policy describes the responsibilities and duties of senior management and the board in the preparation and review of the Pillar 3 disclosure and aims to ensure that:

- minimum disclosure requirements of the Regulations, standards and directives are met;
- disclosed information is consistent with the manner in which the board assesses the group's risk portfolio;
- the disclosure provides a true reflection of the group's financial condition and risk profile; and
- the quantitative and qualitative disclosures are appropriately reviewed.

The group consists of a portfolio of leading financial services franchises; these are First National Bank (FNB), the retail and commercial bank, Rand Merchant Bank (RMB), the corporate and investment bank, WesBank, the instalment finance business and Ashburton Investments, the group's investment management business. The FCC franchise represents group-wide functions.

SIMPLIFIED GROUP STRUCTURE



Structure shows effective consolidated shareholding

For segmental analysis purposes, entities included in FRIHL and FREMA, FirstRand Investment Management Holdings Limited and

FirstRand Insurance Holdings (Pty) Ltd are reported as part of results of the managing franchise. The group's securitisations and conduits are in FRIHL.

Ashburton Investments has a number of general partners for fund seeding purposes — all of these entities fall under FirstRand Investment Management Holdings Limited.



FIRSTRAND STRATEGY

Statement of intent

FIRSTRAND'S PORTFOLIO OF LEADING FINANCIAL SERVICES FRANCHISES:

- provides a universal set of transactional, lending, investment and insurance products and services
- seeks to operate in markets and segments where franchises can deliver competitive and differentiated client-centric value propositions...
- ...by leveraging the relevant distribution channels, product skills, licences and operating platforms of the wider group.

STRATEGY IS EXECUTED ON THE BACK OF DISRUPTIVE AND INNOVATIVE THINKING UNDERPINNED BY:

- owner-manager culture
- disciplined allocation of financial resources

UNDERPINNED BY THE GROUP'S COMMITMENT TO:

Create long-term franchise value

Deliver superior and sustainable economic returns within acceptable levels of volatility

Maintain balance sheet strength

Executed through...

The group's strategy is executed through its portfolio of operating franchises within the framework set by the group.











and social



Retail and Corporate and Key activities Instalment Investment Group-wide commercial investment functions finance management banking banking ⊕ retail, commercial → retail and ⊕ custodianship → consumer and corporate institutional mandate to → small business → large corporates Market manage → agricultural → public sector relationships with segments → medium corporate key external stakeholders → public sector ownership of key frameworks transactional and advisory asset-based ⊕ traditional and → ensure group deposit taking finance alternative delivers on → funding investment commitments to → full maintenance → mortgage loans → trading solutions stakeholders leasing → personal loans → personal loans banking cards → value-added → principal investing products and Products → investment solutions services (shortproducts → deposit taking term insurance) services → insurance products (funeral, risk, credit life) distribution channels Retail and Corporate and Retail and Interest rate risk in commercial counterparty commercial the banking book credit risk credit risk credit risk Traded market risk Funding and Risks liquidity risk Equity investment risk Foreign exchange risk Operational risk Other Strategic **Business** Reputational Model Environmental Regulatory

risks



RISK MANAGEMENT APPROACH

FirstRand believes that effective risk, performance and financial resource management are key to its success and underpin the delivery of sustainable returns to stakeholders. These disciplines are, therefore, deeply embedded in the group's tactical and strategic decision-making.

The group believes a strong balance sheet and resilient earnings streams are key to growth, particularly during periods of uncertainty. FirstRand's franchises have consistently executed on a set of strategies which are aligned to group financial strategies and frameworks designed to ensure earnings resilience and growth, balance sheet strength, an appropriate risk/return profile and an acceptable level of earnings volatility under adverse conditions.

These deliverables are underpinned by the application of critical financial discipline through frameworks set at the centre. These frameworks include:

Risk management framework	Performance management framework	Balance sheet framework
 Key principles: ensure material risks are identified, measured, monitored, mitigated and reported; assess the impact of the cycle on the group's portfolio; understand and price appropriately 	Key principles: to allocate capital appropriately; ensure an efficient capital structure with appropriate/conservative gearing; and require earnings to exceed cost of capital, i.e. positive net income after capital charge (NIACC).	 Key principles: execute sustainable funding and liquidity strategies; protect credit ratings; preserve a "fortress" balance sheet that can sustain shocks through the cycle; and
for risk; and originate within cycle-appropriate risk appetite and volatility parameters.		 ensure group remains appropriately capitalised.

The group defines risk widely — as any factor that, if not adequately assessed, monitored and managed, may prevent it from achieving its business objectives or result in adverse outcomes, including reputational damage.

Effective risk management is key to the successful execution of strategy and is based on:

- a risk-focused culture with multiple points of control applied consistently throughout the organisation;
- a combined assurance process to integrate, coordinate and align the risk management and assurance processes within the group to optimise the level of risk, governance and control oversight; and
- strong risk governance through the application of financial and risk management disciplines through frameworks set at the centre.

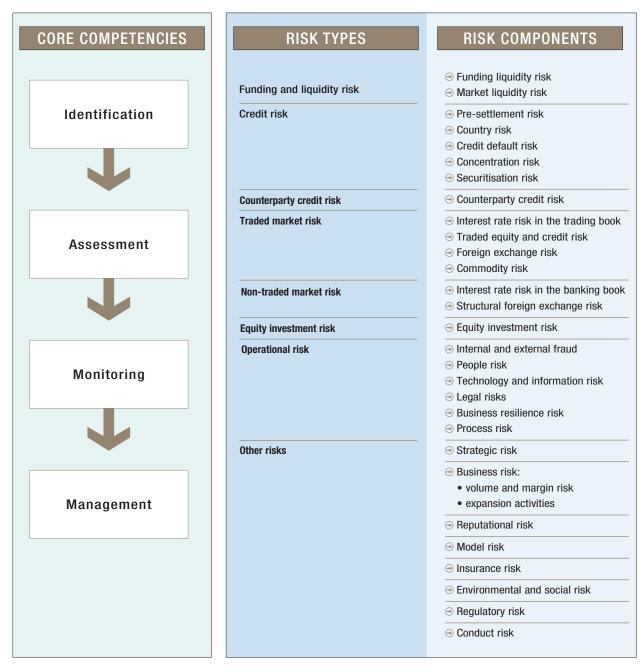
Risk taking is an essential part of the group's business and the group explicitly recognises core risk competencies as necessary and important differentiators in the competitive environment in which it operates.

These core risk competencies are integrated in all management functions, business areas and at risk-type level across the group to support business by providing the checks and balances to ensure sustainability, performance, achievement of desired objectives, and avoidance of adverse outcomes and reputational damage. A business profits from taking risks, but will only generate an acceptable profit commensurate with the risk associated with its activities if these risks are properly managed and controlled. The group's aim is not to eliminate risk, but to achieve an appropriate balance between risk and reward. This balance is achieved by controlling risk at the level of individual exposures, at portfolio level and in aggregate across all risk types and businesses through the application of the risk appetite framework. The group's risk appetite framework enables organisational decision-making and is aligned with FirstRand's strategic objectives.

The group's financial performance for the six months ended 31 December 2016 is covered in the *Analysis of financial results for the six months ended 31 December 2016* booklet, which is available on the group's website, www.firstrand.co.za.

The following table illustrates the core competencies which are part of the group's risk management processes across key risk types and risk components.

CORE RISK COMPETENCIES AND KEY RISKS



Risk limits established across all risk types form an integral part of managing risk and are instrumental in constraining risk taking within acceptable risk appetite levels. The risks, and the roles and responsibilities of each stakeholder in business, support and the various control functions in the management of these risks are described in the group's business performance and risk management framework (BPRMF).



RISK PROFILE

The following table provides a high-level overview of FirstRand's risk profile in relation to the group's risk appetite. Refer to page 10 for a detailed discussion of the group's risk appetite.

Normalised ROE

22.9%

December 2015: 23.4% June 2016: 24.0%

Long-term target 18% - 22%

Normalised earnings growth

+7%

December 2015: +9% June 2016: +7%

Long-term target

Normal GDP +3% - 5%

Capital adequacy

17.3%

December 2015: 16.6% June 2016 16.9%

Target >14%

Tier 1

14.8%

December 2015: 14.4% June 2016: 14.6%

Target >12%

CET1

14.1%

December 2015: 13.7% June 2016: 13.9%

Target 10% - 11%

Leverage ratio

8.4%

December 2015: 8.3% June 2016: 8.4%

Target >5%

Liquidity coverage ratio

95%

December 2015: 71% June 2016: 96% Minimum requirement **70%**

Normalised NPLs

2.37%

December 2015: 2.3% June 2016: 2.45%

Normalised credit loss ratio

0.86%

December 2015: 0.77% June 2016: 0.86%

Long-run average 100 - 110 bps

Market risk 10-day ETL

R363 million

December 2015: R224 million June 2016: R345 million

Equity investment risk exposure as % of Tier 1

11.6%

December 2015: 12.3% June 2016: 10.5%

NII sensitivity downward 200 bps

-R1.9 billion

December 2015: -R3.2 billion June 2016: -R2.3 billion

upward 200 bps

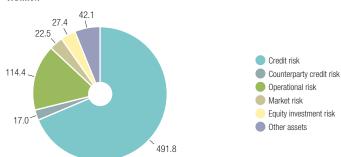
R1.4 billion

December 2015: R2.7 billion June 2016: R1.9 billion

Note: Capital and leverage ratios include unappropriated profits.

RISK WEIGHTED ASSETS





RISK PROFILE ANALYSIS

Return on equity and earnings growth

The quality of the group's operating franchises' growth strategies and disciplined allocation of financial resources has over time enabled the group to deliver on its earnings growth and return targets. The Analysis of financial results for the six months ended 31 December 2016 booklet provides an overview of the group's financial position and performance for the six months ended 31 December 2016.

Capital adequacy

• FirstRand has maintained its strong capital position. The group continues to actively manage capital composition and, to this end, issued R4.9 billion Basel III-compliant Tier 2 instruments in the domestic market during the past 12 months. This results in a more efficient composition which is closely aligned with the group's internal targets.

• The Basel III leverage ratio is a supplementary measure to the risk-based capital ratio and greater emphasis has been placed on monitoring leverage.

For a detailed analysis of capital adequacy and leverage refer to page 26 of this report.

Funding and liquidity

Liquidity buffers are actively managed via high quality, highly liquid assets that are available as protection against unexpected events or market disruptions. The group exceeded the 70% minimum liquidity coverage ratio (LCR) as set out by the BCBS with an LCR measurement of 95%. The group's high quality liquid asset (HQLA) holdings amounted to R173 billion.

• The group continues to build its deposit franchise through innovative and competitive products and pricing, while also improving the risk profile of its institutional funding. The deposit franchise increased 7% from December 2015 relative to institutional funding growth of 5%.

For a detailed analysis of funding and liquidity risk refer to page 36 of this report.

Credit risk

 Group credit loss ratios stabilised following recent increases, with overall performance in line with expectations and well within risk appetite.

• The macroeconomic environment remains challenging and will continue to exert pressure on credit performance, although there has recently been some improvement in certain key macroeconomic drivers.

• Credit origination strategies are aligned to the group's macroeconomic outlook.

For a detailed analysis of credit risk refer to page 49 of this report.

Market risk in the trading book

• The traded interest rate risk asset class represents the most significant market risk in the trading book exposure at December 2016. The group's market risk profile remained within risk appetite. For a detailed analysis of market risk in the trading book refer to page 125 of this report.

Equity investment risk

The period was characterised by a few acquisitions with no significant disposals. The quality of the investment portfolio remains acceptable and within risk appetite. For a detailed analysis of equity investment risk refer to page 141 of this report.



CURRENT AND EMERGING CHALLENGES

Identifying and monitoring challenges emerging in the wider operating environment and risk landscape, both domestically (where the group has a dominant position) and in the rest of Africa, are integral to the group's approach to risk management. Challenges in the global environment are also monitored to identity possible impacts on the group's operating environment.

South Africa and the rest of Africa

- Significant downward pressure on revenues given low GDP growth in South Africa.
- Higher probability of a sovereign ratings downgrade.
- Increasing cost and scarcity of financial resources.
- Ongoing introduction of new regulations and legislation (particularly in banking activities), which could impact profitability over the medium to long term.
- Intensifying competition in banking profit pools from non-traditional competitors (specifically those with low cost infrastructures) and insurance players.
- Increase in political risk.
- Pising regulatory and macroeconomic risks in the rest of Africa.

Global landscape

- Rising income and wealth disparity.
- On the back of election surprises in 2016 the global societal trends of deepening social and cultural polarisation, and intensifying national sentiment.
- Deteriorating job prospects, and the impact of rapid economic and technological change on global labour markets.
- Importance of protecting and strengthening global cooperation in light of countries withdrawing from international cooperation agreements and the effect of migration.
- Environmental-related risks include extreme weather conditions, failure of climate change mitigation and a possibility of a water crisis.
- Rising cyber dependency, increasing incidence of data fraud/theft as well as large-scale cyberattacks.

Responses

These challenges and associated risks are continuously identified, potential impacts determined, reported to and debated by appropriate risk committees and management. Developments in South Africa and other key markets are monitored with appropriate responses, strategic adjustments and proactive financial resource management implemented where required. Credit origination and funding strategies are assessed and adjusted in light of macroeconomic conditions and market liquidity. Actions are in place to ensure a resilient funding model. Significant investment in people, systems, processes and data projects are made to:

- manage the risks emanating from the large number of regulatory requirements;
- address possible control weaknesses and improve system security; and
- improve data management aggregation and reporting.

RISK APPETITE

FirstRand is expected, at a defined confidence level, to deliver on its commitments to its stakeholders. The management of financial resources, defined as capital, funding and liquidity, is critical to the achievement of FirstRand's stated growth and return targets, and is driven by the group's overall risk appetite. As such, the group sets financial and prudential targets through different business cycles and scenarios. The management of the group's financial resources is executed through Group Treasury and is independent of the operating franchises. This ensures the required level of discipline is applied in the allocation and pricing of financial resources. This also ensures that Group Treasury's mandate is aligned with the operating franchises' growth, return and volatility targets in order to deliver shareholder value.

The group's risk appetite enables organisational decision-making and is integrated with FirstRand's strategic objectives. Business and strategic decisions are aligned to the risk appetite measures to ensure these are met during a normal cyclical downturn. At a business unit level, strategy and execution are managed through the availability and price of financial resources, earnings volatility limits and required hurdle rates and targets.

RISK APPETITE STATEMENT

FirstRand's **risk appetite** is the aggregate level and type of risks the group is willing and able to accept within its overall **risk capacity**, and is captured by a number of qualitative principles and quantitative measures.

The aim is to ensure that the group maintains an appropriate balance between risk and reward. Risk appetite limits and targets are set to ensure the group achieves its overall strategic objectives, namely:

- create long-term franchise value;
- deliver superior and sustainable economic returns to shareholders within acceptable levels of volatility; and
- maintain balance sheet strength.

The group's strategic objectives and financial targets frame its risk appetite in the context of risk, reward and growth, and contextualise the level of reward the group expects to deliver to its stakeholders under normal and stressed conditions for the direct and consequential risks it assumes in the normal course of business.

Risk capacity is the absolute maximum level of risk the group can technically assume given its current available financial resources, i.e. earnings and capital. The group views earnings as the primary defence against adverse outcomes. Risk capacity provides a reference for risk appetite and is not intended to be reached under any circumstances.

Risk appetite states what proportion of the group's financial resources should be utilised in the execution of its strategy and is determined through consideration of a number of filters, including:

- overall strategic objectives;
- growth, volatility and return targets, and;
- meeting the group's commitments to all stakeholders including regulators, depositors, debtholders and shareholders.

Risk appetite is captured through both quantitative measures and qualitative principles, which include set objectives for the level of earnings volatility, and minimum levels of capital and liquidity to be maintained over defined time horizons in normal and stressed environments.

Risk limits are clearly defined risk boundaries for different measures per risk type and are also referred to as thresholds, tolerances or triggers. Actual performance/losses are measured against limits/thresholds for management purposes.



PROCESS FOR DETERMINING RISK APPETITE

FROCESS FO	OR DETERMINING RISK AFFETTIE		
Risk capacity	EARNINGS	CAPITAL	
Filters	Strategic objectives and growth, return and volatility targets		
Filt	Constraints based on stakeholder commitments		



QUANTITATIVE MEASURES EARNINGS GROWTH, RETURN AND VOLATILITY TARGETS MINIMUM CAPITAL AND LEVERAGE RATIO TARGETS MINIMUM LIQUIDITY TARGETS AND TARGETED CREDIT RATING **ROE** Capital Liquidity Normal business cycles CET1: 10% - 11% To exceed minimum regulatory 18% to 22% requirements with appropriate buffers **Earnings growth** Basel III leverage Credit rating* > 5% Equal to highest in SA banking Nominal GDP +3% to 5% industry

^{*} Refers to a rating agency's measure of a bank's intrinsic creditworthiness before considering external factors and relates to FirstRand Bank Limited.

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QUALITATIVE PRINCIPLES			
Always act with a fiduciary mindset.	Limit concentrations in risky asset classes or sectors.		
Comply with prudential regulatory requirements.	Avoid reputational damage.		
Comply with the spirit and intention of accounting and regulatory requirements.	Manage the business on a through-the-cycle basis to ensure sustainability.		
Build and maintain a strong balance sheet which reflects conservatism and prudence across all disciplines.	Identify, measure, understand and manage the impact of downturn and stress conditions.		
Do not take risk without a deep understanding thereof.	Strive for operational excellence and responsible business conduct.		
Comply with internal targets in various defined states to the required confidence interval.	Ensure the group's sources of income remain appropriately diversified across business lines, products, markets and regions.		
Do not implement business models with excessive gearing through either on- or off-balance sheet leverage.			

The risk appetite statement aims to drive the discipline of balancing risk, return and growth across all portfolios. It is in this process that the group ultimately seeks to achieve an optimal trade-off between its ability to take on risk and the sustainability of returns delivered to shareholders.

Application of the risk/reward framework

Risk appetite, targets and limits are used to monitor the group's risk/reward profile on an ongoing basis. The risk/reward profile should be measured point-in-time and forward-looking. Risk appetite should influence business plans and inform risk-taking activities and strategies in every business.

The risk/reward framework provides a structured approach to define risk appetite, targets and limits that apply to each key resource as well as the level of risk that can be assumed in this context. The framework drives the allocation of financial resources, including risk-taking capacity. Although different commitments are made to various stakeholders, these are monitored collectively.

The group cascades overall appetite into targets and limits at risk type, franchise and subsequent activity level, and these represent the constraints the group imposes to ensure its commitments are attainable. Management of risk is the responsibility of everybody across all levels of the organisation, supported through the three lines of control outlined in the business performance and risk management framework.

The franchises are responsible for maximising risk-adjusted returns on a sustainable basis, within the limits of the group's risk appetite. Shifts in the macroeconomic environment are also critical to strategic adjustments. FirstRand manages its business based on the group's houseview, which is used for budgeting, forecasting and business origination strategies. The houseview focuses on the key macroeconomic variables that impact the balance sheet and income statement. The macroeconomic outlook for South Africa and a number of other jurisdictions where the group operates is reviewed

on a monthly basis and spans a three-year forecast horizon. Other jurisdictions with less data are updated less frequently, but at least quarterly. Business plans for the next three years are captured in the budget and forecasting process. Scenario planning is then used to assess whether the desired profile can be delivered and whether the business stays within the constraints it has set itself. The scenarios are based on changing macroeconomic variables, plausible event risks and regulatory and competitive changes.

The group employs a comprehensive, consistent and integrated approach to stress testing and scenario planning. The impact of risk scenarios on the business is evaluated and the need for adjustments to origination is considered and appropriate actions are taken. More severe scenarios are run less frequently, but are critical to support or test capital buffers, capital and liquidity planning, validate existing quantitative risk models and provide an understanding of required management actions/responses.

The strategy, risk and financial resource management processes inform the capital and funding plans of the group. A thorough analysis and understanding of the value drivers, markets and macroeconomic environment also inform portfolio optimisation decisions and the price and allocation of financial resources.

Through the risk appetite framework and processes, the group continues to refine its processes to align and cascade earnings growth, return and volatility targets of the overall risk appetite statement into limits and thresholds at risk type and franchise level. Through this process, the group aims to align the bottom up aggregation of franchise risk reward statements to the group's risk appetite statement, as well as test the limit structures with reference to the group's risk appetite statement.

RISK MEASUREMENT APPROACHES

The following approaches are adopted by the group for the calculation of risk weighted assets (RWA).

Risk type	FRB domestic operations	SARB approval date	Remaining FirstRand subsidiaries and FRB foreign operations	
Credit risk	Advanced internal ratings-based (AIRB) approach and the standardised approach for certain portfolios	January 2008	Standardised approach	
Counterparty credit risk	Standardised method	May 2012	Current exposure method	
Market risk in the trading book	Internal model approach	July 2007	Standardised approach	
Equity investment risk	Market-based approach: Simple risk-weighted method**	June 2011	Market-based approach: Simple risk-weighted method**	
Operational risk*	Advanced measurement approach (AMA)	January 2009	Remaining subsidiaries and FRB foreign operations: The standardised approach (TSA) FRIHL entities: Basic indicator approach (BIA), TSA, AMA FirstRand Investment Management Holdings (FRIM) entities: BIA	
Other assets	Standardised approach	January 2008	Standardised approach	

^{*} All entities were included in the approval for use of AMA (from January 2009) and TSA (from January 2008). Some entities were moved to FRIHL (unregulated prior to 2010) with a subsequent legal entity restructure. All other entities in FRIHL adopted BIA in 2010.

^{**} Subject to the threshold rules as per Regulation 38(5).



Credit risk

The calculation of credit RWA for FRB domestic operations is based on internally-developed, quantitative models in line with the AIRB approach. The three credit risk measures, namely probability of default (PD), exposure at default (EAD) and loss given default (LGD), are used along with prescribed correlations (dependent on the asset class) and estimates of maturity, where applicable, to derive credit RWA. Quantitative models also adhere to the AIRB requirements related to annual validation.

For the remaining entities, credit RWA is based on the standardised approach where regulatory risk weights are prescribed per asset class. Even though the remaining entities do not have regulatory approval to use the AIRB approach, internally-developed, quantitative models are used for internal assessment of credit risk.

Securitisations

Capital against securitisation exposures is based on the appropriate approach under the Regulations. Where a public rating is available by an eligible external credit assessment institution (ECAI) for the notes in issue, the ratings-based approach is used, otherwise the supervisory formula approach or a look-through to the underlying assets is applied. Capital calculated under these approaches is limited to the capital that would have been held had the assets remained on-balance sheet.

The ratings-based approach uses external ratings assigned to the securitisation tranches by an ECAI. Credit risk weightings are based on the rating assigned to the specific tranche as well as its seniority relative to other notes.

Under the supervisory formula approach, the capital requirement for any retained securitisation exposure is determined using the credit parameters of the underlying assets. Capital is determined using a standard formula taking into account the size of the tranche and credit enhancement.

Counterparty credit risk

The regulatory capital approach for counterparty credit risk is driven by the overall approach to credit risk, i.e. AIRB for domestic entities and standardised approach for the remainder of the group's entities. Similar to credit risk, the three risk measures used are PD, LGD and EAD, which are calculated using the approaches specified below depending on the entity. In addition, capital is held for credit value adjustment (CVA) risk. CVA refers to the fair value adjustment to reflect counterparty credit risk in the valuation of derivative contracts. In essence, it is the mark-to-market adjustment required to account for credit quality deterioration experienced by a derivative counterparty. CVA capital, for all entities, both domestic and foreign, is computed in accordance with the standardised approach. Regulatory capital serves as a proxy for economic capital.

There are three EAD approaches to measure the exposure of derivative transactions.

Current exposure method (CEM)	CEM is the simplest approach and is based on a replacement cost plus add-on formula dependent on potential future exposure that accounts for the potential change in the value of the contract until a hypothetical default of the counterparty. This method is applied to all FirstRand entities with the exception of FRB.
Standardised method	The standardised method is applied for FRB (SA). This method is more sophisticated than the CEM approach as it factors in the non-linearity features of derivatives, risk sensitivity such as PVO1s and is based on the concept of a hedge set. EAD under the standardised method is quantified by scaling either the current credit exposure less collateral or the net potential future exposure by a factor of 1.4.
Internal model method	The internal model method is the third and most complex method and is not applied by the group.

Market risk in the trading book

Regulatory capital for domestic trading units is based on the internal Value-at-Risk (VaR) model supplemented with a stressed VaR (sVaR). Both VaR and sVAR are calculated at a 99%, 10-day actual holding period level using 250 scenarios for each. VAR is calculated using the last 260 days' data and sVaR using 260 days' data during a predefined static stress period (2008/2009). For internal risk reporting purposes, an expected shortfall methodology calculated at a 99%, 10-day actual holding period is used over the same periods as VaR and sVaR. One-day VaR calculations are also used as an additional tool in the assessment of market risk.

The subsidiaries in the rest of Africa and the bank's foreign branches are measured using the standardised approach for regulatory capital and an internal stress loss methodology for internal measurement of risk. Capital is calculated for general market risk using the duration methodology. In addition to general market risk, specific risk capital is held, based on the Basel III standardised approach duration method

Equity investment risk

The simple risk weighted method under the market-based approach (300% (listed) or 400% (unlisted)) is applied with a scalar for the quantification of regulatory capital. In terms of Regulation 38, a specific risk weight is applied to investments in financial, banking and insurance institutions (threshold rules). This is dependent on the size of the shareholding of the investments in relation to the group's qualifying CET1 capital. Economic and regulatory capital calculations are augmented by regular stress tests of market values and underlying drivers of valuations including assessments of stress resulting from portfolio concentrations.

Where price discovery is reliable, the risk of listed equity investments is measured based on a 90-day expected tail loss (ETL) calculated using RMB's internal market risk model for economic capital quantification. The ETL risk measure is supplemented by a measure of the specific (idiosyncratic) risk of individual securities per the specific risk measurement methodology.

Operational risk

The group applies AMA for its domestic FRB operations. Offshore subsidiaries and operations use TSA for operational risk and all previously unregulated entities (prior to 2010) in FRIHL use BIA. FRIM entities also follow BIA. Under AMA, FirstRand uses a sophisticated statistical model for the calculation of capital requirements, which enables more accurate, risk-based measures of capital for business units on this approach. Operational risk scenarios and internal loss data (operational risk measurement tools) are used as direct inputs into this model, while risk- and control assessments, key risk indicators and external data are used to inform the operational risk scenario analysis process. TSA and BIA capital calculations are based on a multiplication factor applied to gross income, as specified by BCBS and SARB regulations. No risk-based information is used in these capital calculations and allocations.

Other assets

FirstRand applies the standardised approach to property, plant and equipment, accounts receivable and other assets. Deferred tax assets relating to temporary differences are also included under other assets and are risk weighted at 250%, subject to meeting the threshold requirements.

RISK MITIGATION

The group is exposed to a number of risks inherent in its operations and uses a range of techniques and strategies to actively mitigate these risks.

Interest rate risk in the banking book

The internal funds transfer pricing process is used to transfer interest rate risk in the banking book (IRRBB) from the franchises to Group Treasury. This process allows this risk to be managed centrally and holistically in line with the group's macroeconomic outlook.

The two key drivers of IRRBB, the endowment effect and the fixed-rate book, are managed by Group Treasury through balance sheet optimisation or the use of derivatives.

Endowment effect	The endowment effect is the most significant driver of IRRBB and is a result of the use of large proportions of the low/non-rate liabilities to fund variable rate assets. Consequently the group's margins expand in a rate-hiking cycle and contract in a rate-cutting cycle. Group Treasury actively monitors the macroeconomic environment to assess the stage of the cycle and hedges this risk to stabilise earnings.
	Derivative instruments used are mainly interest rate swaps, for which a liquid market exists. Where possible, hedge accounting is used to minimise accounting mismatches, thus ensuring that amounts deferred in equity are released to the income statement at the same time as movements attributable to the underlying hedged asset/liability.
Fixed-rate book	The remaining portion stems from the fixed-rate book. Interest rate risk from the fixed-rate book is managed to low levels with remaining risk stemming from timing mismatches and basis risk.

Group Treasury is mandated by the board to protect and enhance the group's IRRBB and operates within a set of risk limits aligned to the group's risk appetite. The exposures against these limits are monitored daily with oversight by FCC Risk Management and the asset, liability and capital committee (ALCCO). All hedges transacted for IRRBB are subject to the hedge effectiveness test and the vast majority are classified as cash flow hedges.

Credit risk mitigation

Since taking and managing credit risk is core to its business, the group aims to optimise the amount of credit risk it takes to achieve its return objectives. Mitigation of credit risk is an important component of this, beginning with the structuring and approval of facilities for only those clients and within those parameters that fall within risk appetite.

Although, in principle, credit assessment focuses on the counterparty's ability to repay debt, credit mitigation instruments are used where appropriate to reduce the group's lending risk, resulting in security against the majority of exposures. These include financial or other collateral, netting agreements, guarantees or credit derivatives. The collateral types are driven by portfolio, product or counterparty type.

Credit risk mitigation instruments

- Mortgage and instalment sale finance portfolios in FNB HomeLoans, FNB Wealth and WesBank are secured by the underlying assets financed.
- FNB commercial credit exposures are secured by the assets of the SME counterparties and commercial property finance deals are secured by the underlying property and associated cash flows.
- Structured facilities in RMB are secured as part of the structure through financial or other collateral, including guarantees, credit derivative instruments and assets.
- Credit risk in RMB is mitigated through the use of netting agreements and financial collateral.
- Personal loans, overdrafts and credit card exposures are generally unsecured or secured by guarantees and sureties.
- Working capital facilities in RMB corporate banking are unsecured.



The group employs strict policies governing the valuation and management of collateral across all business areas. Collateral is managed internally to ensure that title is retained over collateral taken over the life of the transaction. Collateral is valued at inception of the credit agreement and subsequently, where necessary, through physical inspection or index valuation methods. For corporate and commercial counterparties, collateral is reassessed during the annual review of the counterparty's creditworthiness to ensure that proper title is retained over collateral. For mortgage portfolios, collateral is revalued on an ongoing basis using an index model and physical inspection is performed in the event of default at the beginning of the recovery process.

Concentrations in credit risk mitigation types, such as property, are monitored and managed in the three credit portfolios. FNB HomeLoans, Housing Finance and Wealth monitor exposure to a number of geographical areas, as well as within loan-to-value bands. Collateral is taken into account for capital calculation purposes through the determination of LGD. Collateral reduces LGD, and LGD levels are determined through statistical modelling techniques based on historical experience of the recovery processes.

Counterparty credit risk

The group uses various instruments to mitigate the potential exposure to certain counterparties. These include financial or other collateral in line with common credit risk practices, as well as netting agreements, guarantees and credit derivatives. In addition, the group has set up a function to clear OTC derivatives centrally as part of risk mitigation.

The group uses International Swaps and Derivatives Association (ISDA) and International Securities Market Association agreements for the purpose of netting derivative transactions and repurchase transactions, respectively. These master agreements as well as associated Credit Support Annexes (CSA) set out internationally accepted valuation and default covenants, which are evaluated and

applied daily, including daily margin calls based on the approved CSA thresholds.

The effectiveness of the hedges and mitigants in place are monitored by a combination of counterparty risk limits and market risk limits. The setting of these limits is defined in accordance with the wholesale credit risk framework and the market risk limit framework. The counterparty credit risk team in RMB Global Markets are the custodians of the policies that set collateral requirements for counterparties and portfolios. The business units are responsible for executing these policies and the RMB Business Resource Management desk is responsible for the overall management of the funding costs/benefits of the collateral. Client and portfolio exposures, concentrations and effectiveness of collateral and hedges are monitored on an ongoing basis via the relevant derivative risk and Global Markets' credit risk committees in RMB.

Collateral, in the form of cash and/or cash equivalents, is the primary credit risk mitigant employed against counterparty credit risk. Collateral arises from margin arrangements which are stipulated within netting agreements and is also a function of providing market access to clients across certain business lines. The liquid nature of the collateral taken makes it effective as a mitigant in that its valuation, where applicable, is easily observable in the market and in that lower regulatory haircuts apply.

Risk insurance

The group's insurance-buying philosophy is to protect itself against insurable catastrophic risks through the use of retention through its risk financing programme as well as third-party insurance providers. The insurance programme includes, *inter alia*, cover for key insurable operational risk exposures, such as professional indemnity, directors' and officers' liability, crime, public and general liability, assets, etc. The group does not consider insurance as a mitigant in the calculation of capital for operational risk purposes.

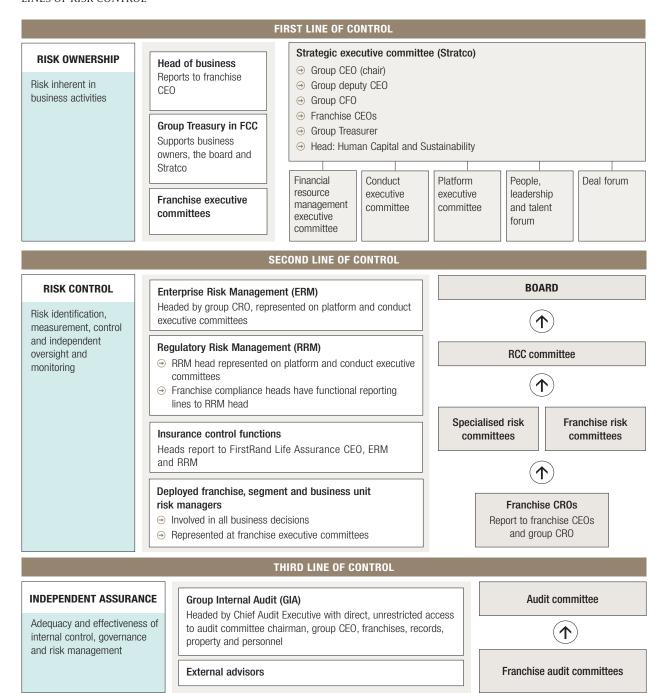
RISK GOVERNANCE

The group believes that effective risk management is supported by effective governance structures, robust policy frameworks and a risk-focused culture. Strong governance structures and policy frameworks foster the embedding of risk considerations in business processes and ensure that consistent standards exist across the group. In line with the group's corporate governance framework, the board retains ultimate responsibility for providing strategic direction, setting risk appetite and ensuring that risks are adequately identified, measured, monitored, managed and reported on.

Risk governance framework

The group's BPRMF describes the group's approach to risk management. Effective risk management requires multiple points of control or safeguards that should be consistently applied at various levels throughout the organisation. The BPRMF recognises three lines of control across the group's operations. The following diagram illustrates the three lines of risk control.

LINES OF RISK CONTROL





The responsibilities of the lines of risk control are described below.

- **deal forum** assists in the evaluation and coordination of

potential acquisitions.

First line of control responsibilities

Heads of business	Group Treasury	
 act in accordance with mandates approved by the board or its delegated authority; identify, quantify and monitor key risks to business under normal and stress conditions; implement strategy within approved risk appetite parameters; design business processes to appropriately manage risk; ensure that board-approved risk policies, frameworks, standards, processes, methodologies and risk tools are implemented; specify and implement early warning measures, associated reporting, management and escalation processes through governance structures; implement risk mitigation and response strategies; implement timeous corrective actions and loss control measures as required; and ensure staff understand and implement responsibilities for risk management. 	 Group Treasury provides an integrated approach to financial resource management; optimises the group's portfolio to deliver sustainable returns within an acceptable level of risk; performs scenario analyses and stress testing; manages the group's liquidity, funding, interest rate and market risk in the banking book, and foreign exchange mismatch; performs capital management and planning; and advises senior management on potential capital actions, dividend strategy and other capital management developments. 	
Strategic executive committee	Franchise executive committees	
 sets group strategic framework (subject to approval by the board); assisted by subcommittees in the execution of its duties: financial resource management executive committee ensures the optimal use and allocation of financial resources (capital, funding and liquidity, and risk appetite) and assesses the group's risk and balance sheet capacity; platform executive committee defines, manages and enhances the group's operating model; conduct executive committee acts as the custodian of the group's conduct and ensures that the group treats its customers fairly and that market integrity remains; people, leadership and talent forum focuses on differentiated leadership and talent management practices aimed at delivering a compelling employee value proposition, thus helping to attract and retain the best talent available; and 	 formulate and approve franchises' strategy with respect to products, markets, clients, people and culture, brand and marketing, and reputation; approve the franchises' core committee and governance structures and mandates; monitor the macroeconomic environment in South Africa as well as other relevant jurisdictions and the associated impact on the franchises' strategies and business plans; and review and approve policies relating to business processes and employees. 	

Second line of control responsibilities

ERM	Deployed risk management functions
 sets frameworks, policies, standards and risk governance structures; develops and communicates risk management strategy, and challenges risk profiles; monitors adequate and effective implementation of risk management processes; reports risk exposures and performance to management and governance structures; supports management in risk aspects of business decisions; ensures appropriate risk management skills and culture; performs risk measurement validation; and manages risk regulatory relationships. 	 support management in identifying and quantifying key risks; ensure that board-approved risk policies, frameworks, standards, methodologies and tools are adhered to; approve design of business risk processes to ensure appropriate risk management; identify process flaws and risk management issues, and initiates and monitors corrective action; ensure timeous risk management and loss containment activities; and compile, analyse and escalate risk reports on performance, risk exposures and corrective actions, through governance structures in appropriate format and frequency.
RRM	Insurance control functions
monitors consistency of business practices, policies, frameworks and approaches with applicable laws and regulations.	 actuarial function provides assurance to the board on appropriateness of insurance liability assumptions and capital adequacy; and risk management and compliance functions conduct risk and compliance assessments, and implement improvements.

Third line of control responsibilities

GIA

- monitors risk management infrastructure and practices;
- reviews reliability and integrity of financial and operational information;
- reviews significant systems established by management to ensure compliance with laws and regulations;
- reviews safeguarding and existence of assets;
- ullet assesses whether resources are economically acquired, and used efficiently and effectively;
- reviews operations or programmes for consistency with established goals and objectives;
- evaluates and assesses significant changes in functions, systems, services, processes, operations and controls;
- provides an assessment of the adequacy and effectiveness of internal control system (including financial controls) and risk management to audit committee; and
- conducts work in accordance with international internal audit practices and its activities are considered annually by external auditors.



Risk governance structure

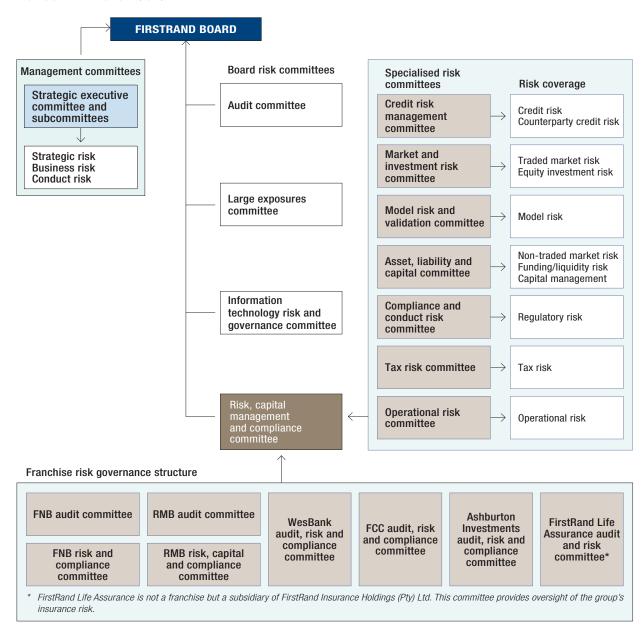
The risk management structure is set out in the group's BPRMF. As a policy of the board, the BPRMF delineates the roles and responsibilities of key stakeholders in business, support and control functions across the various franchises and the group.

The primary board committee overseeing risk matters across the group is the FirstRand risk, capital management and compliance (RCC) committee. It has delegated responsibility for a number of specialist topics to various subcommittees. Further detail on the roles and responsibilities of the RCC committee and its subcommittees relating to each particular risk type is provided in the major risk sections of this report.

Additional risk, audit and compliance committees exist in each franchise, the governance structures of which align closely with that of the group, as illustrated in the risk governance structure. The governance structures are in place to ensure a common understanding of the challenges businesses face and how these are addressed across the group. The franchise audit, risk and compliance committees support the board risk committees and RCC subcommittees in the third line of control.

The following diagram illustrates how the risk committees fit into the board committee structure and the risk coverage of each committee. The strategic executive committee ensures alignment of franchise strategies, sets risk appetite and is responsible for optimal deployment of the group's financial and non-financial resources.

RISK GOVERNANCE STRUCTURE



BOARD RISK COMMITTEES' RESPONSIBILITIES

Committee	Responsibility		
Audit committee	 assists the board with its duties relating to the safeguarding of assets, operation of adequate systems and controls, assessment of going concern status and ensuring that relevant compliance and risk management processes are in place; oversees and reviews work performed by the external auditors and internal audit function; and oversees financial risks and internal financial controls including the integrity, accuracy and completeness of the annual integrated report, which is provided to shareholders and other stakeholders. 		
Risk, capital management and compliance committee	 approves risk management policies, frameworks, strategies and processes; monitors containment of risk exposures within the risk appetite framework; reports on assessment of the adequacy and effectiveness of risk appetite, risk management, internal capital adequacy assessment process (ICAAP) and compliance processes to the board; monitors the implementation of the risk management strategy, risk appetite limits and effectiveness of risk management; initiates and monitors corrective action, where appropriate; monitors that the group takes appropriate action to manage its regulatory and supervisory risks, and complies with applicable laws, rules, codes and standards; approves regulatory capital models, risk and capital targets, limits and thresholds; and monitors capital adequacy and ensures that a sound capital management process exists. 		
Large exposures committee (LEC)	 approves credit applications or renewals in excess of 10% of the group's qualifying capital and reserves; approves credit applications or renewals in excess of 25% of the group's capital and reserves prior to submission to the SARB for approval; delegates the mandate for approval of group and individual facilities to the LEC subcommittees as appropriate. These include the FirstRand wholesale credit approval committee, commercial credit approval committee and the FirstRand retail credit policy, risk appetite and mandate approval committee as appropriate; and approval of specific related-party exposures/transactions. 		
Information technology risk and governance committee	 approves and monitors the implementation of IT risk and governance principles, policies, standards, frameworks and plans; monitors the availability, security and continuity of IT services, as well as the remediation of identified key IT risks, and initiates corrective action, where required; and ensures that IT has appropriately skilled risk and management resources to deliver on the business mandate. 		



RESPONSIBILITIES OF THE SUBCOMMITTEES OF THE RCC COMMITTEE

RCC subcommittee	Responsibility
Credit risk management committee	 approves credit risk management and risk appetite policies as well as forward-looking credit risk indicators developed by retail, commercial and corporate portfolio management; monitors the credit risk profile including performance relative to credit risk appetite thresholds, quality of the in-force business and business origination in terms of the group's view of credit economic outlook; monitors scenario and sensitivity analysis, stress tests, credit economic capital utilisation, credit pricing and credit concentrations; ensures uniform interpretation of credit regulatory requirements and credit reporting; and monitors corrective actions where appropriate.
Market and investment risk committee	 approves market and investment risk management policies, standards and processes; monitors the market and investment risk profile and the effectiveness of market and investment risk management processes; and approves market and investment risk-related limits.
Model risk and validation committee	approves or recommends for approval by the RCC committee, all material aspects of model validation work including credit ratings and estimations, internal models for market risk and advanced measurement operational risk models for regulatory capital calculations.
Asset, liability and capital committee	 approves and monitors effectiveness of management policies, assumptions, limits and processes for liquidity and funding risk, capital and non-traded market risk; monitors the group's funding management; monitors capital management including level, composition, supply and demand of capital, and capital adequacy ratios; and approves frameworks and policies relating to internal funds transfer pricing for the group.
Compliance and conduct risk committee	 approves regulatory risk, and anti-money laundering (AML) and combating the financing of terrorism management, frameworks, plans, risk management policies and standards; monitors the effectiveness of regulatory risk management across the group and initiates corrective action where required; monitors compliance with the Regulations and supervisory requirements relating to banks; and reviews regulatory compliance matters relating to financial crime, market conduct, prudential regulations, anti-bribery and corruption.
Tax risk committee	 sets tax strategy and tax risk appetite; approves the tax management frameworks and policies; and monitors tax risk assessments and profiles, compliance tax risks, corrective actions and escalation to the RCC committee, where required.
Operational risk committee	 provides governance, oversight and coordination of relevant operational risk management practices, and initiates corrective action, where required; recommends the group's operational risk appetite for approval by RCC committee; monitors the group and franchise operational risk profiles against operational risk appetite; and approves the operational risk management framework and all its subpolicies/frameworks, including fraud risk, legal risk, business resilience, information governance, information technology and physical security.

Combined assurance

The audit committee oversees formal enterprise-wide governance structures for enhancing the practice of combined assurance at group and franchise levels. The primary objective is for the assurance providers to work together with management to deliver the appropriate assurance cost effectively. Assurance providers in this model include GIA, senior management, ERM, RRM and external auditors. The combined outcome of independent oversight, validation and audit tasks performed by the assurance providers ensure a high standard across methodological, operational and process components of the group's risk and financial resource management.

Combined assurance results in a more efficient assurance process through the elimination of duplication, more focused risk-based assurance against key control areas and heightened awareness of emerging issues, resulting in the implementation of appropriate preventative and corrective action plans.

Risk information reporting

Process of risk reporting

The group's robust and transparent risk reporting process enables key stakeholders (including the board and strategic executive committee) to get an accurate, complete and reliable view of the group's financial, non-financial and risk profile and to make appropriate strategic and business decisions.

Reporting of risk information follows the governance structure as illustrated on page 19. Specialised risk committees and franchise audit, risk and compliance committees report to the RCC committee and its subcommittees, as well as to relevant executive committees on risk profile, material risk exposures, risk-adjusted business performance and key risk issues. The RCC committee submits its reports and findings to the board and highlights control issues to the audit committee.

Regular risk reporting enables the board, senior management, RCC committee and relevant subcommittees to evaluate and understand the level and trend of material risk exposures and their impact on the group's capital adequacy, and to make timely adjustments to the group's future capital requirements and strategic plans.

The RCC committee, in turn, submits reports to the board on:

- the group's risk profile, significant issues, key risk exposures, risk rating trends, board risk appetite principles and board risk limits;
- effectiveness of processes relating to corporate governance, risk management, capital management and capital adequacy;
- level of compliance or non-compliance with laws and regulations and supervisory requirements;
- internal control and regulatory material malfunction;
- contravention of codes of conduct or ethics, personal trading, or unethical behaviour by any of the directors; and
- limits, authorities and delegations granted to the RCC committee.

GIA provides a written assessment regarding the adequacy and effectiveness of the system of internal controls (including financial controls) and risk management to the audit committee. This enables the board to report on the effectiveness of the system of internal controls in the annual integrated report.

Scope and main content of risk reporting

Risk reports to the board, board risk committees, franchise risk and audit committees, and senior management include the following:

- risk exposure and risk-adjusted business performance;
- feedback on the implementation and monitoring of risk management processes:
- comparison of risk management performance against risk appetite, limits and indicators;
- periodical review of process against and deviation from the risk management plan;
- changes in the external and internal environment and its possible impact on the risk profile;
- impact of environmental changes on the strategic risk profile of the company;
- assessment that risk responses are effective and efficient in both design and operation;
- tracking the implementation of risk responses;
- analysing and learning lessons from changes, trends, successes, failures and events; and
- identifying emerging risks.

Challenge of current practice

As part of the reporting, interrogation and control process, ERM drives the implementation of more sophisticated risk assessment methodologies through the design of appropriate policies and processes, including the deployment of skilled risk management personnel in each of the franchises.

ERM and GIA ensure that all pertinent risk information is accurately captured, evaluated and escalated appropriately and timeously. This enables the board and its designated committees to retain effective control over the group's risk position.

Risk culture

The group recognises that effective risk management requires the maintenance of an appropriate risk culture. The group distinguishes between corporate culture (how values are lived in the group) and risk culture (support for and attitudes towards risk management). Significant determinants are ethical leadership, flow of information, reporting integrity and customer focus.

The group's risk culture is intended to ensure effective risk management and controls. It places the primary responsibility for risk management on the first line of control (risk ownership), while designating specific risk management-related duties and responsibilities to the second (risk control) and third (independent assurance) lines of risk control.



The group believes its risk culture is underpinned by the following:

- competent and ethical leadership in setting strategy, risk appetite and a positive attitude towards applying appropriate risk practices;
- robust risk governance structures to ensure risk policy frameworks are visible and implemented, and that appropriate committee memberships and structures exist;
- best practice risk identification, measurement, monitoring, management and reporting; and
- a broader organisational culture which drives appropriate business ethics practices and supports risk goals, and which provides a balance between skills and ethical values and ensures accountability for performance.

In support of a sound risk culture, the group manages three conduct risk programmes with appropriate levels of staff training and communication to ensure responsible banking conduct. The programmes are described further in the *conduct risk* section.

THEMES

The group has established clear parameters to assess its culture risk rating. This is outlined in the following diagram.

RISK CULTURE ASSESSMENT FRAMEWORK

 Accurate and timely flow of information with appropriate disclosure Ethical treatment of clients and ethical clients 			
	PARAM	METERS	
Tone from the top	Setting risk goals	Providing resources and sound platforms	Aligning measurement and rewards
	ACTIV	/ITIES	
 ensuring an ethical and competent leadership pipeline – recruitment, promotion and dismissal; develop management structures and forums that encourage openness; and zero tolerance for unethical conduct or whistle-blower victimisation. 	 ensure risk management goals, policies and standards are set and communicated throughout the group; and ensure that ethics and accountability to risk management parameters are acknowledged to be as important as efficiency, innovation and profit. 	 ensure risk management goals are attainable by adequately staffing risk management functions; apply fit-and-proper tests for key risk roles; and embed risk controls in business platforms. 	 ensure accurate and relevant performance metrics; and ensure risk metrics are incorporated in the performance management framework.

STRESS TESTING AND SCENARIO PLANNING

Stress testing and scenario planning serve a number of regulatory and internal business purposes, and are conducted for the group and the bank across different risk types, factors and indicators. Stress tests are also conducted for other group legal entities. The various stress test processes are supported by a robust and holistic framework and underpinned by principles and sound governance, which are aligned to regulatory requirements and best practice.

Stress testing and scenario analysis provide the board and management with useful insight on the group's financial position, level of earnings volatility, risk profile, and future capital position. Results are used to challenge and review certain of the group's risk appetite measures, which will, over time, influence the allocation of financial resources across franchises and business units and impact performance measurement.

From a regulatory perspective, the stress tests and scenario planning process feeds into the group's annual ICAAP and recovery plan. The ICAAP stress test is an enterprise-wide macroeconomic stress test covering material risks that the group is exposed to. It typically covers a three-year horizon, with separate ICAAP submissions completed for the group's regulated banking entities which are subject to Basel II requirements. The severity of the macroeconomic scenarios range from mild downturn to severe stress scenarios. In addition to macroeconomic scenarios, the group incorporates event risk and reverse stress test scenarios that highlight contagion between risk types. Techniques and methodologies range from multi-factor and regression analyses for macroeconomic stress tests to single-factor sensitivities and qualitative impact analysis for event risk and reverse stress tests.

The group's recovery plan builds on its ICAAP. The scenarios defined for ICAAP are extended and incorporate the following scenarios:

- systemic;
- idiosyncratic;
- fast moving; and
- slow moving.

The results of the ICAAP and recovery plan process are submitted to the SARB annually and are key inputs into:

- the determination of capital buffer requirements and capital targets;
- dividend proposals;
- the group's earnings volatility measures; and
- performance management requirements.

The group regularly runs additional *ad hoc* stress tests for both internal and regulatory purposes. Internally, the risk-specific stress tests may utilise various techniques depending on the purpose (e.g. limit setting or risk identification). From a regulatory perspective, the group expects to be subject to more frequent supervisory stress tests covering a range of objectives.

Recovery and resolution regime

Financial Services Board (FSB) member countries are required to have recovery and resolution plans in place for all systemically significant financial institutions as per *Key Attributes of Effective Resolution Regimes*. The SARB has adopted this requirement and has, as part of the first phase, required South African domestically significant banking institutions to develop their own recovery plans. Improving the stability of the banking system by strengthening banks' ability to manage themselves through a potentially severe stress situation is of

national importance. Guidance issued by the FSB and SARB has been incorporated into the group's comprehensive recovery plan.

Recovery planning

The purpose of the recovery plan is to document how FirstRand's board and management, including its franchises and key subsidiary, FirstRand Bank, will recover from a severe stress event/scenario that threatens the group's commercial viability. The recovery plan:

- analyses the potential for severe stress in the group that could cause material disruption to the South African financial system;
- considers the type of stress event(s) that would be necessary to trigger its activation;
- analyses how the group might potentially be affected by the event(s):
- lists a menu of potential recovery actions available to the board and management to counteract the event(s); and
- assesses how the group might recover from the event(s) as a result of those actions.

The recovery plan forces the group to perform an extensive self-assessment exercise to determine if there are any potential idiosyncratic vulnerabilities that it may be exposed to, and then reconcile these exposures to its own risk appetite and strategy. Strategies to optimise the balance sheet structure and preserve the group's critical functions to support the recovery from a severe stress event with the least negative impact are considered. This process enables banks to better understand what functions are critical for its customers and for the financial system, as well as which assets are most marketable to facilitate recovery. Where inefficiencies are identified, these can be amended to make the group more streamlined, adaptable and resilient to stress.

To date FirstRand has submitted four annually-revised versions of its recovery plan to the SARB, the most recent in December 2016.

Resolution framework

The South African regulatory architecture is currently undergoing significant transformation in order to create a regulatory framework that will support an effective resolution regime. South Africa is in the process of adopting a twin peaks supervisory framework model that will reduce the number of agencies involved in supervision with the establishment of two new regulatory agencies: the Prudential Authority (PA) in the SARB, and a Market Conduct Authority (MCA) that will replace the FSB. The PA/SARB is responsible for monitoring and enhancing financial stability as part of its explicit financial stability mandate. The SARB is responsible for assisting with the prevention of systemic events by being the designated Resolution Authority (RA).

The RA/SARB will be responsible for bank resolution, however, the exact details of the legislative framework that will support the resolution regime and the resolution authorities' respective powers are not yet finalised. Initial outlines of the resulting resolution planning requirements for South African systemically important banks were issued in a draft proposal in August 2015. These resolution plans will allow the PA to plan for an event from which the group's recovery actions have failed or are deemed likely to fail. Bank resolution plans will be owned and maintained by RA, but will require a significant amount of bilateral engagement and input from the individual banks to enable the PA to develop a customised plan that is most appropriate to each bank.



BASIS OF CONSOLIDATION

Consolidation of all group entities for accounting purposes is in accordance with IFRS and for regulatory purposes in accordance with the requirements of the Regulations. There are some differences in the manner in which entities are consolidated for accounting and regulatory purposes. The following table provides the basis on which the different types of entities are treated for regulatory purposes.

REGULATORY CONSOLIDATION TREATMENT

	Regulatory				
Shareholding	Banking, security firm, financial	Insurance	Commercial	IFRS	
Less than 10%	Tier 2): amount exceeding 10% CE against corresponding com up to 10% – risk weight ba and measurement approac	Aggregate of investments (CET1, Additional Tier 1 (AT1) and Tier 2): amount exceeding 10% CET1 capital – deduction against corresponding component of capital; and up to 10% – risk weight based on nature of instrument and measurement approach. Standardised approach: minimum risk weight of 100%. Internal rating-based approach: maximum risk weight of 1250%.		Financial assets at fair value (held for trading, designated at fair value through profit or loss or available-for-sale). Where the substance of the transaction indicates that the group is able to exercise significant influence or joint control over the entity, equity accounting is applied.	
Between 10% and 20%	CET1 capital: individual investments in ey deduction against CET1 ca individual investments up to AT1 and Tier 2: deduct against correspondi	pital; and o 10% apply threshold rules.			
Between 20% and 50%	Legal or <i>de facto</i> support (other significant shareholder): • proportionately consolidate. No other significant shareholder: • apply threshold rules.	 Apply deduction methodology, with 100% derecognition of IFRS net asset value (NAV). Cost of investment subject to threshold rules. 	Standardised and internal rating based approach: individual investment greater than 15% of CET1, AT1 and Tier 2: risk weight at 1250%. individual investment up to 15% of CET1, AT1 and Tier 2: risk weight at no less than 100%.	Equity accounting where the substance of the transaction indicates that the group has the ability to exercise significant influence or joint control, but does not control the entity.	
Greater than 50%	Entity conducting trading activities/other bank, security firm or financial entity: • consolidate.		 aggregate of investments exceeding 60% of CET1, AT1 and Tier 2: excess risk weighted at 1250% (standardised only). 	Consolidate, unless the substance of the transaction indicates that group does not control the entity, in which case equity accounting will apply.	

Threshold rules

As per Regulation 38(5), investments are aggregated as part of threshold deductions (significant investments and deferred tax assets relating to temporary differences). Aggregate investments up to 15% of CET1 capital are risk weighted at 250% and amounts exceeding 15% are deducted against CET1 capital. For entities conducting trading activities or other bank, security firms or financial entities in which the group has a greater than 50% shareholding, threshold rules would apply to financial entities acquired through realisation of security in respect of previously contracted debt (held temporarily), subject to materially different rules and regulations and non-consolidation required by law.

Insurance entities

Under the insurance category, material, wholly-owned insurance subsidiaries incorporated in South Africa include FirstRand Life Assurance Limited (December 2016: R957 million NAV) and FirstRand Insurance Services Company Limited (FRISCOL) (December 2016: R354 million NAV).

CAPITAL MANAGEMENT

INTRODUCTION AND OBJECTIVES

The overall capital management objective is to maintain sound capital ratios and a strong credit rating to ensure confidence in the group's solvency and quality of capital during calm and turbulent periods in the economy and financial markets. The group, therefore, maintains capitalisation ratios aligned to its risk appetite and appropriate to safeguard operations and stakeholder interests.

The group focuses on the following areas to safeguard operations and stakeholder interests.

KEY FOCUS AREAS AND CONSIDERATIONS

Optimal level and composition of capital is determined after taking into account:					
 business units' organic growth plans; rating agencies' considerations; investor expectations (including debtholders); targeted leverage levels; future business plans; stress testing scenarios; 	 economic and regulatory capital requirements; issuance of additional capital instruments; regulatory and accounting changes; and the board's risk appetite. 				

Dividend policy included in overall capital plan

- sustainable dividend cover based on normalised earnings;
- dividend policy caters for the following factors:
 - volatile earnings brought on by fair value accounting;
 - anticipated earnings yield on capital employed;
 - organic growth requirements;
 - safety margin for unexpected fluctuations in business plans;
 - current target range (1.8x to 2.2x) to protect shareholders from any unnecessary volatility in dividends; and
- annual assessment of appropriate level of payout considers the following inputs:
 - actual performance;
 - forward-looking macros;
 - demand for capital; and
 - potential regulatory and accounting changes.

Effective allocation of resources (including capital and risk capacity)

aligned to risk appetite to maximise value for shareholders.



CAPITAL ADEQUACY AND PLANNING

The following diagram defines the main components of capital and leverage as per the Regulations.

QUALIFYING CAPITAL AND LEVERAGE COMPONENTS

TIER 1 CAPITAL TIER 2 CAPITAL CET1 CAPITAL subordinated debt instruments; → general provisions under standardised approach; share capital and premium; → surplus of provisions over expected losses; and retained earnings (appropriated); → instruments issued out of consolidated subsidiaries other reserves; and to third parties. non-controlling interests. **FOTAL QUALIFYING CAPITAL AND RESERVES Deductions Deductions** goodwill and intangibles; investments in financial, banking and insurance deferred tax assets (other than temporary differences); institutions* (Tier 2 instruments); and investment in own shares; surplus third-party capital. shortfall of expected losses over provisions; + ego cash flow hedging reserve; investments in financial, banking and insurance institutions*: surplus minority and third-party capital; and other. **AT1 CAPITAL** NCNR preference shares; and instruments issued out of consolidated subsidiaries to third parties. **Deductions** o investments in financial, banking and insurance institutions* (AT1 instruments); and surplus third-party capital. **CAPITAL MEASURE TOTAL EXPOSURE** → accounting value for on-balance sheet, nonderivative exposures (net of provisions): - no netting of loans and deposits; **EVERAGE** \odot derivative exposures using the replacement cost and potential future exposure; **TIER 1 CAPITAL** → securities financing transaction exposures including a measure of counterparty credit risk; adjusted off-balance sheet exposures.

As per Regulation 38(5) threshold rules. The full deduction method is applied to insurance entities, i.e. NAV for insurance entities is derecognised from consolidated IFRS NAV.

Period under review

The capital planning process ensures that the total capital adequacy and CET1 ratios remain within or above targets across economic and business cycles. Capital is managed on a forward-looking basis, and the group remains appropriately capitalised under a range of normal and severe stress scenarios, which includes ongoing regulatory developments, expansion initiatives and corporate transactions. The group aims to back all economic risk with loss absorbing capital and remains well capitalised in the current environment.

The Basel III leverage ratio is a supplementary measure to the risk-based capital ratio and greater emphasis has been placed on monitoring this ratio.

FirstRand comfortably operated above its capital and leverage targets during the period. The following table summarises the group's capital and leverage ratios.

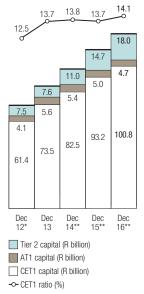
CAPITAL ADEQUACY AND LEVERAGE POSITION

	As at 31 December 2016				
	Capital				
%	CET1	Tier 1	Total	Total	
Regulatory minimum*	6.9	8.1	10.4	4.0	
Internal target	10.0 - 11.0	>12.0	>14.0	>5.0	
Actual					
 Including unappropriated profits 	14.1	14.8	17.3	8.4	
 Excluding unappropriated profits 	11.9	12.6	15.1	7.2	

^{*} Excludes the bank-specific individual capital requirement and add-on for domestic systemically important banks.

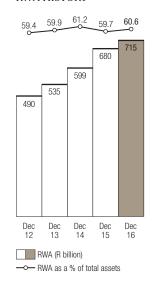
The graphs below show the historical overview of capital adequacy, RWA and leverage for FirstRand.

CAPITAL ADEQUACY



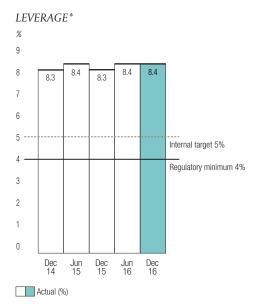
* 2012 is on a Basel II basis, 2013 onwards is on a Basel III basis.

RWA HISTORY



^{**} Includes unappropriated profits.





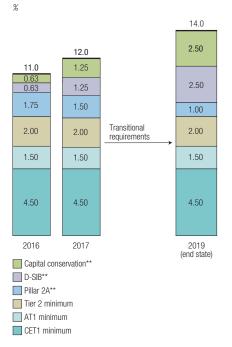
* Includes unappropriated profits.

Regulatory update

South Africa

Effective 1 January 2016, the SARB minimum capital requirement was adjusted for the capital conservation buffer, add-on for domestic systemically important banks (D-SIB) and the countercyclical buffer. Currently the SARB has not implemented any countercyclical buffer requirement for South African exposures. The capital conservation buffer and D-SIB add-on will be phased in until 1 January 2019.

$TRANSITIONAL\ MINIMUM\ REQUIREMENTS^*$



^{*} Assuming a maximum D-SIB add-on.

The group's internal targets have been aligned to the end-state minimum requirements and are subject to ongoing review and consideration of various stakeholder requirements. No changes have been made to the current targets.

^{**} Pillar 2A and D-SIB met with all capital types; capital conservation buffer met solely with CET1 capital.

BCBS

The BCBS issued various consultative documents, including revisions to the RWA framework, capital floors and leverage framework. These papers are at different stages of testing, finalisation and implementation, and the actual impact on banks remains unclear. The group continues to participate in the BCBS quantitative impact studies to assess and incorporate, where relevant, the effect of these standards.

The SARB has delayed the implementation of the following Basel standards:

- Standardised approach for measuring counterparty credit risk exposures (SA-CCR).
- Bank exposures to central counterparties.
- Margin requirements for non-centrally cleared derivatives.
- Capital requirements for banks' equity investments in funds.

The current consultative documents issued by the BCBS are summarised in the following table.

SUMMARY OF CONSULTATIVE DOCUMENTS

	Objectives	Impact assessment
Revisions to the standardised approach for credit risk	 To balance simplicity and risk sensitivity. Enhanced comparability across jurisdictions. The standardised approach is a methodology for calculating minimum risk-based capital requirements and should in no way be seen as a substitute for prudent risk management. 	 High-level impact assessments performed. Proposed calibration and implementation timeline not yet finalised.
Standardised measurement approach for operational risk	 Estimation of operational risk capital using a single method, with financial statement items and historical losses as input into the calculation. 	 Finalisation is expected in 2017 with possible implementation between 2019 and 2021. Incorporated in existing quantitative impact studies.
Constraints on the use of internal model approaches	 Reduce the complexity of the regulatory framework. Enhanced comparability across jurisdictions. Address variability in capital requirements for credit risk for banks using internal ratings based approaches. 	 High-level impact assessments performed. Proposed calibration and implementation timeline not yet finalised.
Revisions to the leverage ratio framework	Areas subject to the proposed revision include: measurement of derivative exposures; treatment of regular-way purchases and sales of financial assets; treatment of provisions; credit conversion factors for off-balance sheet items; and additional requirements for global systemically important banks.	Final designs and calibrations will be informed by a comprehensive quantitative impact study.

ICAAP

ICAAP is key to the group's risk and capital management processes as it is an integral tool in meeting the capital management objectives of the group. ICAAP allows and facilitates:

- the link between business strategy, risk introduced and capital required to support strategy;
- embedding a responsible risk culture at all levels in the organisation;
- the development of recognised stress tests to provide useful information, which serve as early warnings/triggers, so that contingency plans can be implemented;
- the determination of capital management strategy and how the group will manage its capital during business-as-usual and periods of stress from both a regulatory and economic perspective;
- effective allocation and management of capital in the group in proportion to risks inherent in the various businesses; and
- a board-approved capital plan.

These processes are under ongoing review and refinement, and continue to determine the targeted buffer over the minimum capital requirement. The group continues to refine its approach to economic capital, which includes strategic capital planning, risk measurement and portfolio management.



COMPOSITION OF CAPITAL

Supply of capital

The tables below summarise FirstRand's qualifying capital components and related movements.

COMPOSITION OF CAPITAL ANALYSIS

	As at 31	As at 30 June	
R million	2016	2015	2016
Including unappropriated profits			
– CET1	100 844	93 168	97 283
– Tier 1	105 556	98 189	101 970
- Total qualifying capital	123 546 112 849		117 811
Excluding unappropriated profits			
- CET1	85 322 83 883		86 954
- Tier 1	90 034 88 904		91 641
- Total qualifying capital	108 024 103 564 1		

Movement: December 2016 versus December 2015							
CET1	AT1	Tier 2					
1	↓	1					
• Internal capital generation through earnings.	Additional 10% haircut on NCNR preference shares not compliant with Basel III, partly offset by movements in third-party capital.	● Issuance of Basel III-compliant subordinated debt instruments totalling R4.9 billion: - FRB18, FRB19 and FRB20 issued in April 2016: R2.6 billion; - FRB21 issued in November 2016: R1 billion; and - FRB22 issued in December 2016: R1.25 billion. ● Redemption of FRB08 in June 2016: R100 million. ● Additional 10% haircut applied to instruments not compliant with Basel III.					

DEMAND FOR CAPITAL

RWA

The following table provides the RWA per risk type and associated minimum capital requirements.

OV1: OVERVIEW OF RWA

		RWA			Minimum capital requirements [†]
R m	aillion	As at 31 December 2016	As at 31 December 2015	As at 30 June 2016	As at 31 December 2016
1.	Credit risk (excluding counterparty credit risk)*	468 064	452 597	462 235	48 561
2.	– Standardised approach	103 310	109 876	106 563	10 718
	– AIRB	364 754	342 721	355 672	37 843
12.	Securitisation exposures in banking book	23 712	16 952	17 496	2 461
13.	 IRB ratings-based approach 	17	57	57	2
14.	IRB supervisory formula approach	1 432	1 940	2 333	149
15.	- Standardised approach/simplified supervisory formula approach	22 263	14 955	15 106	2 310
	Total credit risk	491 776	469 549	479 731	51 022
4.	Counterparty credit risk*,**	17 002	20 341	21 378	1 764
5.	- Standardised approach	17 002	20 341	21 378	1 764
6.	- Internal model method	_	_	_	_
11.	Settlement risk	_	_	_	
7.	Equity positions in banking book under market-based approach#	27 407	31 459	27 993	2 843
16.	Market risk	22 463	16 615	17 402	2 330
17.	 Standardised approach 	5 296	6 841	4 269	549
18.	– Internal model approach	17 167	9 774	13 133	1 781
19.	Operational risk	113 231	99 311	110 143	11 748
20.	Basic indicator approach	8 652	8 800	8 754	898
21.	 Standardised approach 	20 471	17 330	19 611	2 124
22.	– Advanced measurement approach	84 108	73 181	81 778	8 726
23.	Amounts below the thresholds for deduction (subject to 250% risk weight)	12 640	9 625	12 683	1 311
24.	Floor adjustment	1 206	4 600	_	125
	Other assets	29 515	28 900	29 402	3 062
25.	Total	715 240	680 400	698 732	74 205

^{*} Restated due to refinement of calculation methodology.

^{**} The current exposure and standardised methods are applied to counterparty credit risk. The BCBS standard on the standardised approach for measuring counterparty credit risk exposures has not been implemented yet. The group does not apply the internal model method to counterparty credit risk (row 6).

^{*} The simple risk weighted method is applied to equity investment risk. The BCBS standard on equity investment in funds has not yet been implemented, rows 8 – 10 have, therefore, been excluded from this table.

[†] Capital requirement calculated at 10.375% of RWA (excluding the bank specific individual capital requirement and D-SIB add-on).



The following table analyses RWA movements.

RWA ANALYSIS

Risk type	Year-on-year movement	Key drivers
Credit risk	1	Organic growth, model recalibrations and regulatory refinement.
Counterparty credit risk	↓	Volumes, mark-to-market movements and increased collateralisation.
Operational risk	1	 Higher risk scenario values for certain portfolios subject to the advanced measurement approach. Increase in gross income for entities on the standardised approach.
Market risk	1	Volume and mark-to-market movements.
Equity investment risk	V	Disposals of investments, partly offset by investment in African Bank Holdings Limited.
Other assets*	1	 Increase in deferred tax assets relating to temporary differences. Increase in property and equipment.

^{*} Includes investment in financial, banking and insurance entities, and deferred tax assets relating to temporary differences, which are subject to the threshold rules as per Regulation 38 and risk weighted at 250%.

Further detailed analysis on credit risk RWA is provided in the following table.

OVERVIEW OF CREDIT RISK RWA

	Advanced approach	Other approaches	Total*	Capital requirement*
R million		As at 31 Dec	ember 2016	
Corporate, banks and sovereigns	159 755	38 130	197 885	20 531
- Small and medium enterprises (SMEs)	54 577	25 694	80 271	8 328
Residential mortgages	56 916	7 290	64 206	6 661
Qualifying revolving retail	24 445	6 442	30 887	3 205
– Other retail	69 061	25 754	94 815	9 837
- Securitisation exposure	1 449	22 263	23 712	2 460
Total credit risk	366 203	125 573	491 776	51 022

^{*} Capital requirement calculated at 10.375% of RWA (excluding the bank specific individual capital requirement and D-SIB add-on).

RWA AND CAPITAL ADEQUACY POSITIONS FOR THE GROUP, ITS REGULATED SUBSIDIARIES AND THE BANK'S FOREIGN BRANCHES

The group's registered banking subsidiaries must comply with SARB regulations and those of the respective in-country regulators, with primary focus placed on Tier 1 capital and total capital adequacy ratios. Based on the outcome of detailed stress testing, each entity targets a capital level in excess of the regulatory minimum. Adequate controls and processes are in place to ensure that each entity is adequately capitalised to meet local and SARB regulatory requirements. Capital generated by subsidiaries/branches in excess of targeted levels is returned to FirstRand, usually in the form of dividends/return of profits. No restrictions were experienced on the repayment of such dividends or profits to the group during the period.

The RWA and capital adequacy positions of FirstRand, its regulated subsidiaries and the bank's foreign branches are set out below.

RWA AND CAPITAL ADEQUACY POSITIONS OF FIRSTRAND, ITS REGULATED SUBSIDIARIES AND THE BANK'S FOREIGN BRANCHES

	RWA R million	Tier 1 %	Total capital adequacy %	Total capital adequacy %	Total capital adequacy %
		As at 31 December 2016		As at 31 December 2015	As at 30 June 2016
Basel III					
FirstRand*	715 240	14.8	17.3	16.6	16.9
FirstRand Bank South Africa*	537 830	14.5	17.5	16.6	16.9
FirstRand Bank London	32 677	12.1	20.2	16.1	17.4
FirstRand Bank India	2 737	24.3	24.7	29.9	24.3
FirstRand Bank Guernsey**	68	36.2	36.2	43.5	43.9
Basel II (local regulations)					
FNB Namibia	24 881	13.5	17.2	15.8	17.8
FNB Mozambique	2 550	11.8	12.3	11.3	14.6
RMB Nigeria	1 721	54.6	54.6	75.2	91.7
FNB Botswana#	20 711	14.3	18.5	20.2	16.4
Basel I (local regulations)					
FNB Swaziland	3 006	26.2	27.3	21.9	25.0
FNB Lesotho	1 034	12.3	15.5	15.4	16.9
FNB Zambia	4 255	17.8	22.8	20.4	19.2
FNB Tanzania	1 229	52.0	52.0	78.4	66.1
First National Bank Ghana	210	>100	>100	>100	>100

^{*} Includes unappropriated profits.

^{**} Trading as FNB Channel Islands.

[#] Implemented Basel II on 1 January 2016.



COMMON DISCLOSURES

Directive 3/2015 (capital) and Directive 4/2014 (leverage) requires the following additional common disclosure in line with Regulation 43 of the Regulations:

- composition of capital;
- reconciliation of IFRS financial statements to regulatory capital and reserves;
- main features of capital instruments; and
- leverage common disclosure templates.

Directives 6/2014 and 11/2014 require the group to provide its LCR disclosure in a standardised template.

Refer to www.firstrand.co.za/investorcentre/pages/commondisclosures.aspx for further detail on the capital, leverage and LCR common disclosures.



Scan with your smart device's QR code reader to access the common disclosure templates on the group's website.

FUNDING AND LIQUIDITY RISK

INTRODUCTION AND OBJECTIVES

The group strives to fund its activities in a sustainable, diversified, efficient and flexible manner, underpinned by strong counterparty relationships within prudential limits and requirements. The objective is to maintain natural market share and also to outperform at the margin, which will provide the group with a natural liquidity buffer.

Given the liquidity risk introduced by its business activities, the group's objective is to optimise its funding profile within structural and regulatory constraints to enable its franchises to operate in an efficient and sustainable manner.

Compliance with the Basel III liquidity ratios influences the group's funding strategy, in particular as it seeks to restore the correct risk-adjusted pricing of liquidity. The group is actively building its deposit franchise through innovative and competitive products and pricing, while also improving the risk profile of its institutional funding. This

continues to improve the funding and liquidity profile of the group.

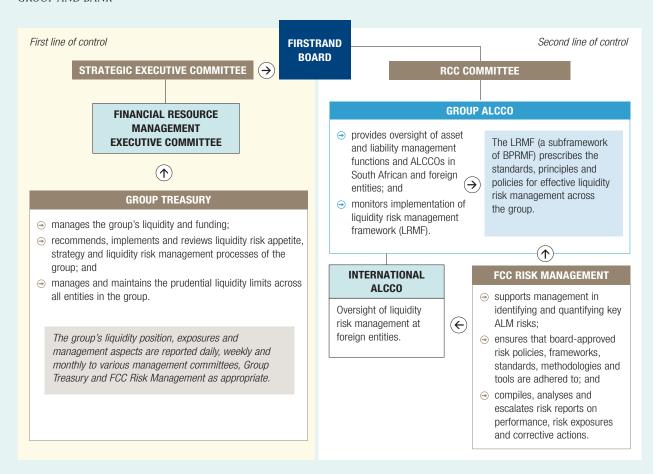
Given market conditions and the regulatory environment, the group increased its holdings of available liquidity in line with risk appetite over the period. The group utilised new market structures, platforms and the SARB committed liquidity facility to efficiently increase available liquidity holdings.

At 31 December 2016, the group exceeded the 70% minimum LCR requirement with an LCR measurement of 95% (December 2015: 71%; June 2016: 96%). The bank's LCR was 104% (December 2015: 74%: June 2016: 102%).

At 31 December 2016, the group's available HQLA sources of liquidity per the LCR amounted to R173 billion, with an additional R9 billion of management liquidity available.

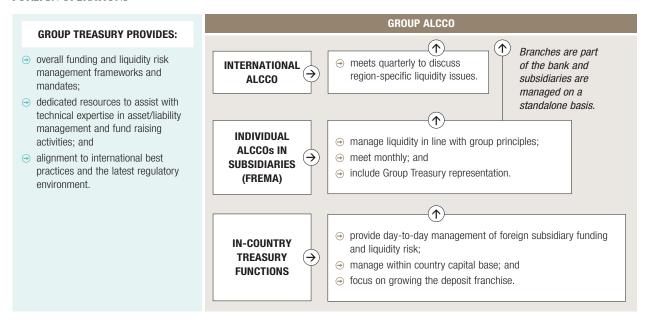
ORGANISATIONAL STRUCTURE AND GOVERNANCE

GROUP AND BANK





FOREIGN OPERATIONS

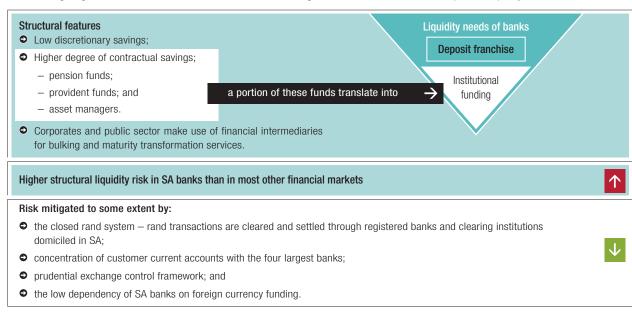


FirstRand Bank's London branch is categorised in the UK as a non-EEA branch. FRB is authorised by the Prudential Regulation Authority (PRA) and subject to regulation by the Financial Conduct Authority and limited regulation by the PRA.

The PRA places reliance on the Home State Supervisor (HSS) of FirstRand (i.e. SARB through its Bank Supervision Department) for all reporting and monitoring of capital adequacy, trading and investment risk and liquidity risk. Up until the December 2016 reporting period, the PRA required six-monthly updates on the liquidity position of FirstRand Bank Limited reported to it in the PRA's standardised format. Going forward, the PRA requires non-EEA branches to submit liquidity information at the whole-firm level (FirstRand Bank Limited including foreign branches), based on data reported to the HSS, including LCR-related data and, in particular, the completed LCR template and any other additional liquidity reports submitted to the HSS. The reporting cycle will remain six monthly.

FUNDING MANAGEMENT

The following diagram illustrates the structural features of the banking sector in South Africa and its impact on liquidity risk.



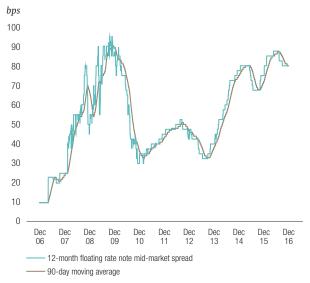
Liquidity demanded by banks as a consequence of money supply constraints introduced by the LCR and the central bank's open market operations without a commensurate increase in savings flows, resulted in higher liquidity costs. In light of the structural features discussed above, focus remains on achieving a better risk-adjusted diversified funding profile which also supports the Basel III requirements.

The group's aim is to fund the balance sheet in the most efficient manner, taking into account the liquidity risk management framework, as well as regulatory and rating agency requirements.

To ensure maximum efficiency and flexibility in accessing funding opportunities, a range of debt programmes have been established. The group's strategy for domestic vanilla public issuances is to create actively-traded benchmarks, which facilitate secondary market liquidity in both domestic and offshore markets. The value of this strategy is that it assists in identifying cost-effective funding opportunities whilst ensuring a good understanding of market liquidity.

The following graph is a representation of the market cost of liquidity, which is measured as the spread paid on NCDs relative to the prevailing swap curve for that tenor. The liquidity spread graph is based on the most actively-traded money market instrument issued by banks, namely 12-month NCDs. The graph shows that liquidity spreads remain elevated.

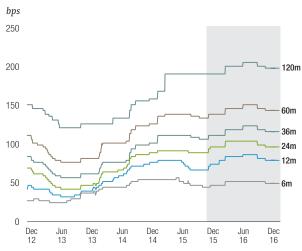
12-MONTH FLOATING RATE NOTE MID-MARKET SPREAD



Source: Bloomberg (RMBP screen) and Reuters.

The following graph shows that long-term funding spreads remain elevated from a historical perspective and still appear to be reflecting a high liquidity premium. The liquidity spreads for instruments with maturities less than 12 months in particular are still high.

LONG-TERM FUNDING SPREADS



Source: Bloomberg (RMBP screen) and Reuters.

Funding measurement and activity

FirstRand Bank, FirstRand's wholly-owned subsidiary and debt issuer, generates a larger proportion of its funding from deposits compared to the South African aggregate, however, its funding profile also reflects the structural features described previously.

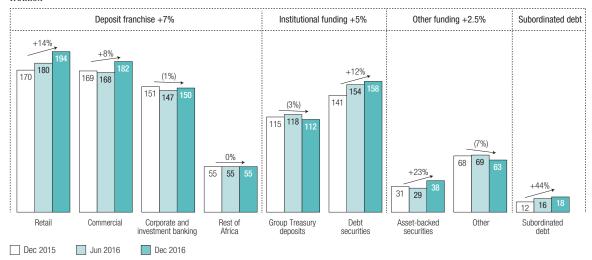
The group manages its funding structure by source, counterparty type, product, currency and market. The deposit franchise is the most efficient source of funding and represented 60% of total group funding liabilities as at 31 December 2016 (December 2015: 60%; June 2016: 59%). The group continued to focus on growing its deposit franchise across all segments, with increasing emphasis on savings and investment products. Progress continues to be made in developing suitable products to attract a greater proportion of clients' available liquidity with improved risk-adjusted pricing for source and behaviour. To fund operations, the group accesses the domestic money markets daily and, from time to time, capital markets. The group issues various capital and funding instruments in the capital markets on an auction and reverse-enquiry basis with strong support from investors, both domestically and internationally. Given elevated domestic funding spreads, the group has not actively sought to issue senior securities in benchmark size.



The following graph provides a segmental analysis of the group's funding base and illustrates the success of its deposits franchise focus.

FUNDING PORTFOLIO GROWTH

R billion

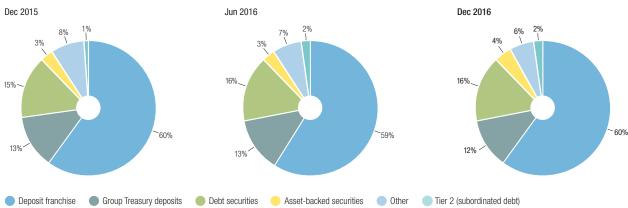


Note 1: Percentage growth is based on actual, not rounded numbers shown in the bar graphs.

Note 2: The above graph is completed using the group segmental reporting split based on the funding product type. The deposit franchise as reported in the above finance segment and product view differs from the risk counterparty view on page 41 which is segment and product agnostic. These views highlight primarily the group's strength in raising deposits through the segments, as well as the diversification of the bank's funding from a counterparty perspective.

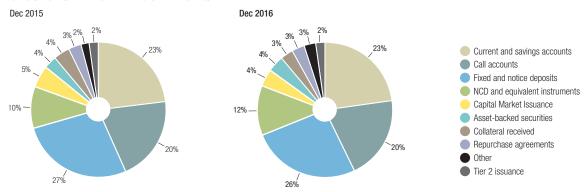
The graphs below show that the group's funding mix has remained stable over the last 12 months.

FUNDING MIX



The following chart illustrates the group's funding instruments by type, including senior debt and securitisations.

GROUP'S FUNDING ANALYSIS BY INSTRUMENT TYPE



As a result of the group's focus on growing its deposit and transactional banking franchise, a significant proportion of funds are contractually short-dated. As these deposits are anchored to clients' service requirements and given the balance granularity created by individual clients' independent activity, the resultant liquidity risk profile is improved.

The table below provides an analysis of the bank's funding sources per counterparty type as apposed to the FirstRand segment view.

FUNDING SOURCES OF FIRSTRAND BANK (EXCLUDING FOREIGN BRANCHES)

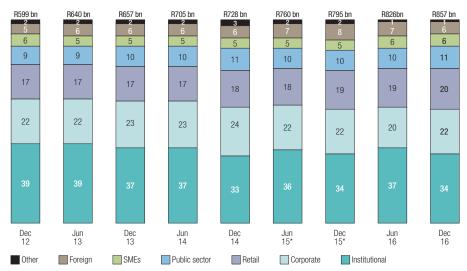
		As Decemb	As at December 2015	As at June 2016		
% of funding liabilities	Total	Short term	Medium term	Long term	Total	Total
Institutional funding	34.2	11.8	6.4	16.0	33.2	37.0
Deposit franchise	65.8	50.5	8.4	6.9	66.8	63.0
Corporate	22.4	19.1	2.2	1.1	22.2	20.1
Retail	19.9	15.0	3.2	1.7	19.1	19.2
SME	5.5	4.5	0.7	0.3	5.4	5.5
Government and parastatals	10.5	8.5	1.1	0.9	9.5	10.2
Foreign	6.3	3.3	1.2	1.8	7.8	6.9
Other	1.2	0.1	-	1.1	2.8	1.1
Total	100.0	62.3	14.8	22.9	100.0	100.0

Source: BA900 for FirstRand Bank SA.



The following graph provides an analysis of the bank's funding analysis by source.

FUNDING ANALYSIS BY SOURCE OF FIRSTRAND BANK (EXCLUDING FOREIGN BRANCHES)



Source: SARB BA900 returns.

Dec 2015

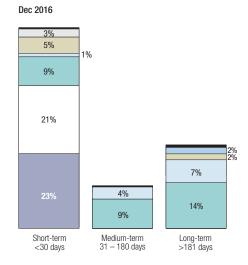
<30 days

The following chart illustrates a breakdown of the group's funding liabilities by instrument and term.

GROUP'S FUNDING LIABILITIES BY INSTRUMENT TYPE AND TERM

6% 9% 21% 5% 14% 9% Long-term >181 days Short-term Medium-term 31 – 180 days

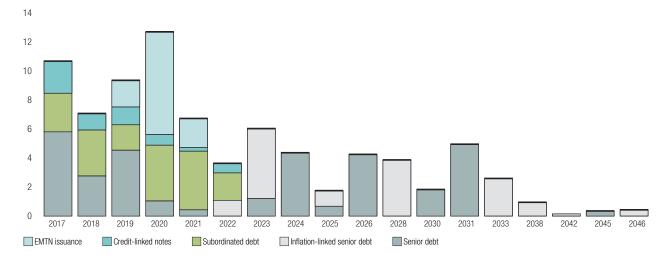




^{*} Restated to account for adjustments made to BA900 reporting.

The maturity profile of all issued capital markets instruments is shown in the following chart. The group does not have concentration risk in any one year and seeks to efficiently issue across the curve considering investor demand.

MATURITY PROFILE OF CAPITAL MARKET INSTRUMENTS OF THE BANK (EXCLUDING FOREIGN BRANCHES) R billion



Funding structure of foreign operations

In line with the group's strategy to build strong deposit franchises in all its operations, foreign operations are categorised in terms of their stage of development from greenfields start-ups to mature subsidiaries and can be characterised from a funding perspective as follows:

- Mature deposit franchises all assets are largely funded incountry. The pricing of funding is determined via in-country funds transfer pricing, which is already in place.
- Growing deposit franchises assets are first funded in-country at attendant funds transfer pricing rates. Any excess over and above in-country capacity would be funded by the group's USD funding platforms. This is a temporary arrangement, which allows these entities to develop adequate in-country deposit bases.
- No deposit franchises all activities would be funded by the group's USD funding platforms.

In all categories, the pricing of funding is determined from established in-country funds transfer pricing.

Group funding support

Any funding provided by the group is constrained by the appetite set independently by the credit risk management committee or the board. In arriving at limits, the credit risk management committee considers the operating jurisdiction and any sovereign risk limits that should apply. Group Treasury, therefore, must ensure that any resources availed to the foreign entities are priced appropriately.

Funds transfer pricing

The group operates a funds transfer pricing framework which incorporates liquidity costs and benefits as well as regulatory friction costs into product pricing and performance measurement for all on- and off-balance sheet activities. Franchises are incentivised to:

- preserve and enhance funding stability;
- ensure that asset pricing is aligned to liquidity risk;
- reward liabilities in accordance with behavioural characteristics and maturity; and
- manage contingencies with respect to potential funding drawdowns.



FOREIGN CURRENCY BALANCE SHEET

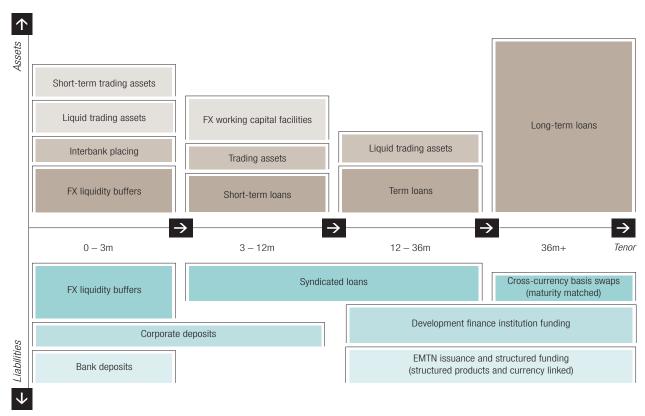
Given that the group continues to grow its businesses in the rest of Africa, and given the size of MotoNovo (UK), the active management of foreign currency liquidity risk continues to be a strategic focus. The group seeks to avoid exposing itself to undue liquidity risk and to maintain liquidity risk within the risk appetite approved by the board and risk committee. The SARB via *Exchange Control Circular 6/2010* introduced macroprudential limits applicable to authorised dealers. The group utilises its own foreign currency balance sheet measures based on economic risk and has set internal limits below those allowed by the macro-prudential limits framework.

FirstRand's foreign currency activities, specifically lending and trade finance, have steadily increased over the past five years. It is, therefore, important to have a sound framework for the assessment and management of foreign currency external debt, given the inherent vulnerabilities and liquidity risks associated with cross-border financing. This limit includes the bank's exposure to branches, foreign currency assets and guarantees.

Philosophy on foreign currency external debt

A key determinant in an institution's ability to fund and refinance in currencies other than its domestic currency is the sovereign risk and associated external financing requirement. The group's framework for the management of external debt takes into account sources of sovereign risk and foreign currency funding capacity, and the macroeconomic vulnerabilities of South Africa. To determine South Africa's foreign currency funding capacity, the group considers the external debt of all South African entities (private and public sector, financial institutions) as all these entities utilise the South African system's capacity, namely, confidence and export receipts. The group employs a self-imposed structural borrowing limit and a liquidity risk limit more onerous than required in terms of regulations.

GRAPHICAL REPRESENTATION OF THE FOREIGN CURRENCY BALANCE SHEET



LIQUIDITY RISK MANAGEMENT

Overview

The group acknowledges liquidity risk as a consequential risk that may be caused by other risks as demonstrated by the reduction in liquidity in many international markets as a consequence of the 2008/9 global credit crisis. The group is, therefore, focused on continuously monitoring and analysing the potential impact of other risks and events on the funding and liquidity position of the group to ensure business activities preserve and improve funding stability. This ensures the group is able to operate through periods of stress when access to funding is constrained.

The group recognises two types of liquidity risk:

Funding liquidity risk – the risk that a bank will not be able to effectively meet current and future cash flow and collateral requirements without negatively affecting its normal course of business, financial position or reputation.

Market liquidity risk – the risk that market disruptions or lack of market liquidity will cause a bank to be unable (or able, but with difficulty) to trade in specific markets without affecting market prices significantly.

Mitigation of market and funding liquidity risks is achieved via contingent liquidity risk management. Buffer stocks of high quality highly liquid assets are held either to be sold into the market or provide collateral for loans to cover any unforeseen cash shortfall that may arise.

The group's approach to liquidity risk management distinguishes between structural, daily and contingency liquidity risk management across all currencies, and various approaches are employed in the assessment and management of these on a daily, weekly and monthly basis as illustrated in the following table.

LIQUIDITY RISK MANAGEMENT APPROACHES

Structural liquidity risk	Daily liquidity risk	Contingency liquidity risk	
Managing the risk that structural, long-term, on- and off-balance sheet exposures cannot be funded timeously or at reasonable cost.	Ensuring that intraday and day-to-day anticipated and unforeseen payment obligations can be met by maintaining a sustainable balance between liquidity inflows and outflows.	Maintaining a number of contingency funding sources to draw upon in times of economic stress.	
 liquidity risk tolerance; liquidity strategy; ensuring substantial diversification over different funding sources; assessing the impact of future funding and liquidity needs taking into account expected liquidity shortfalls or excesses; setting the approach to managing liquidity in different currencies and from country to country; ensuring adequate liquidity ratios; ensuring an appropriate structural liquidity gap; and maintaining a funds transfer pricing methodology and process. 	 managing intraday liquidity positions; managing daily payment queue; monitoring net funding requirements; forecasting cash flows; performing short-term cash flow analysis for all currencies (individually and in aggregate); management of intragroup liquidity; managing central bank clearing; managing net daily cash positions; managing and maintaining market access; and managing and maintaining collateral. 	 managing early warning and key risk indicators; performing stress testing including sensitivity analysis and scenario testing; maintaining product behaviour and optionality assumptions; ensuring that an adequate and diversified portfolio of liquid assets and buffers are in place; and maintaining the contingency funding plan. 	



Stress testing and scenario analysis

Regular and rigorous stress tests are conducted on the funding profile and liquidity position as part of the overall stress testing framework with a focus on:

- quantifying the potential exposure to future liquidity stresses;
- analysing the possible impact of economic and event risks on cash flows, liquidity, profitability and solvency position; and
- proactively evaluating the potential secondary and tertiary effects of other risks on the group

Liquidity contingency planning

Frequent volatility in funding markets and the fact that financial institutions can, and have, experienced liquidity problems even during benign economic conditions highlight the importance of quality liquidity risk and contingency management processes.

The group's ability to meet all of its daily funding obligations and emergency liquidity needs is of paramount importance and, in order to ensure that this is always adequately managed, the group maintains a liquidity contingency plan.

The objective of liquidity contingency planning is to achieve and maintain funding levels in a manner that allows the group to emerge from a potential funding crisis with its reputation intact and to maintain its financial condition for continuing operations. The plan is expected to:

- support effective management of liquidity and funding risk under stressed conditions;
- establish clear roles and responsibilities in the event of a liquidity crisis; and
- establish clear invocation and escalation procedures.

The liquidity contingency plan provides a pre-planned response mechanism to facilitate swift and effective responses to contingency funding events. These events may be triggered by financial distress in the market (systemic) or bank-specific events (idiosyncratic) which may result in the loss of funding sources.

The plan is reviewed annually and tested regularly via a group-wide liquidity stress simulation exercise to ensure the document remains up to date, relevant and familiar to all key personnel within the group that have a role to play should it ever experience an extreme liquidity stress event.

REGULATORY UPDATE



BASEL III LIQUIDITY RATIOS



COVERAGE RATIO



DISCLOSURE REQUIREMENTS

NET STABLE



RESOLUTION FRAMEWORK

The BCBS framework for sound liquidity risk management seeks to address two aspects:

- LCR addresses short-term liquidity risk; and
- Net stable funding ratio (NSFR) addresses the structural liquidity risk of the balance sheet.

The LCR has been fully adopted by the SARB with the inclusion of a committed liquidity facility (CLF). Phasing in of the LCR commenced in 2015 and banks are required to be fully compliant by 2019. The minimum LCR requirement is currently 70%, with 10% incremental step-ups each calendar year to 100% on 1 January 2019.

The SARB issued *Guidance Note 6/2016* significantly increasing the cost for contracting a CLF. The group remains focused on building a diversified pool of available HQLA, which is constrained by the limited availability of these assets in the SA market.

The BCBS published the liquidity coverage ratio disclosure standards in March 2014 with the objective to reduce market uncertainty around liquidity positions. The standardised templates are completed semi-annually.

These disclosures reveal industry reporting inconsistencies which are being addressed via the Banking Association South Africa, with SARB and the South African Institute of Chartered Accountants (SAICA).

The NSFR is considered as a structural balance sheet ratio focusing on promoting a more resilient banking sector. The ratio calculates the amount of available stable funding relative to the amount of required stable funding.

In line with *Directive 4/2016*, banks have been submitting a monthly NSFR monitoring template since August 2016 to enable the SARB to assess the readiness of banks to comply with the 100% NSFR requirement from 1 January 2018. Banks have been engaging on a bilateral basis on interpretive matters relating to this form. Additionally, the industry is seeking guidance in terms of group NSFR requirements and whether assets eligible for the committed liquidity facility for LCR purposes will receive differentiated treatment for the NSFR.

The SARB has applied its discretion on the treatment of deposits with maturities of up to six months received from financial institutions. The NSFR framework assigns a 0% available stable funding (ASF) factor to these funds, whereas the SARB has elected to apply a 35% factor.

It is anticipated that this change will significantly assist the South African banking sector in meeting NSFR requirements. On a *pro forma* basis, FirstRand expects to exceed the minimum requirements.

In September 2015, the SARB and the FSB published for public comment a discussion document, *Strengthening South Africa's Resolution Framework for Financial Institutions*. The paper sets out the motivation, principles and policy proposals for such a strengthened framework and is intended to solicit public comment and serve as a basis for further industry discussions in preparation for the drafting of a special resolution bill.

The paper introduces the concept of total loss-absorbing capacity (TLAC) to explicitly subordinate specified instruments in order to make these loss absorbing at resolution phase. TLAC, in the context of the paper, does not necessarily have the same characteristics as the proposed TLAC requirements applicable to global systemically important banks (G-SIBs) and have been identified as:

- ordinary shares;
- preference shares; and
- pre-identified, loss-bearing instruments.



LIQUIDITY RISK POSITION

The following table provides details on the available sources of liquidity by Basel LCR definition and management's assessment of the required buffer.

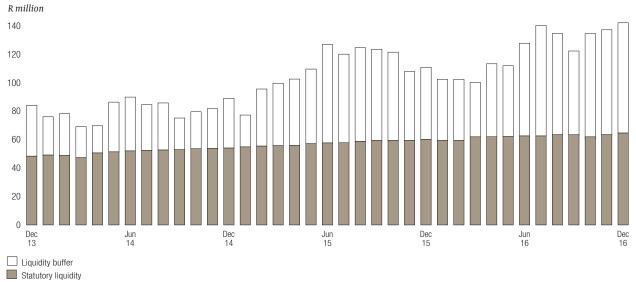
GROUP'S COMPOSITION OF LIQUID ASSETS

	Marketable assets		HQLA Basel III view after haircut*				Management view after haircuts		
R billion	Total December 2016*	Level 1	Level 2	Total December 2016	Total December 2015	Total June 2016	Total December 2016	Total December 2015	Total June 2016
Cash and deposits with central banks	37	34	_	34	32	32	34	32	32
Government bonds and bills	112	108	_	108	73	83	108	80	89
Other liquid assets	53	-	31	31	33	42	40	38	53
Total	202	142	31	173	138	157	182	150	174

^{*} The surplus high quality liquid assets holdings by subsidiaries and foreign branches in excess of the minimum required LCR of 70% (2015: 60%), have been excluded in the calculation of the consolidated group LCR.

Liquidity buffers are actively managed via high quality highly liquid assets that are available as protection against unexpected events or market disruptions. The quantum and composition of the available sources of liquidity are defined by the behavioural funding liquidity-at-risk and the market liquidity depth of available liquidity resources. In addition, adaptive overlays to liquidity requirements are derived from stress testing and scenario analysis of the cash inflows and outflows related to business activity.

$LIQUIDITY\ BUFFER\ AND\ STATUTORY\ LIQUIDITY\ REQUIREMENTS\ OF\ THE\ BANK\ EXCLUDING\ FOREIGN\ BRANCHES$

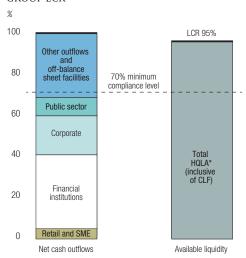


The group's LCR increased due to an increase in HQLA holdings of R35 billion and a reduction in net cash outflows of R12 billion. This is as a result of targeted strategies to raise more funding from stable sources and increase liquid asset holdings. In addition, certain components of the LCR have now been clarified by the SARB and industry working groups, which has allowed FirstRand to align its methodology with other sector players, resulting in a structural uplift in its LCR.

The following graph illustrates the group's LCR position of 95% as at 31 December 2016 (December 2015: 71%) and demonstrates the group's compliance with the 70% minimum requirement. FirstRand Bank's LCR was 104% at 31 December 2016 (December 2015: 74%).

Funding from institutional clients is a significant contributor to the group's net cash outflows as measured under the LCR. Other significant contributors to cash outflows include corporate funding and off-balance sheet facilities granted to clients. The group has strategies in place to increase funding sourced through its deposit franchise and to reduce reliance on less efficient institutional funding sources, as well as to offer facilities more efficiently.

GROUP LCR



^{*} HQLA held by subsidiaries and foreign branches in excess of the required LCR minimum of 70% have been excluded on consolidation as per Directive 11 of 2014.



CREDIT RISK

INTRODUCTION AND OBJECTIVES

Credit risk is the risk of loss due to the non-performance of a counterparty in respect of any financial or other obligation. For fair value portfolios, the definition of credit risk is expanded to include the risk of losses through fair value changes arising from changes in credit spreads. Credit risk also includes credit default risk, pre-settlement risk, country risk, concentration risk and securitisation risk.

Credit risk management across the group is split into three distinct portfolios, which are aligned to customer profiles. These portfolios are retail, commercial and corporate:

- retail credit is offered by FNB and WesBank to individuals and SMEs with a turnover of up to R7.5 million;
- o commercial credit focuses on relationship banking offered by FNB and WesBank to companies that are mainly single-banked; and
- corporate credit is offered by RMB to large corporate multi-banked customers.

As advances are split across the operating franchises, default risk is allocated to the income-receiving portfolio.

The goal of credit risk management is to maximise the group's measure of economic profit, NIACC, within acceptable levels of earnings volatility by maintaining credit risk exposure within acceptable parameters.

Credit risk is one of the core risks assumed as part of achieving the group's business objectives. It is the most significant risk type in terms of regulatory and economic capital requirements. Credit risk management objectives are two-fold:

Risk control: Appropriate limits are placed on the assumption of credit risk and steps taken to ensure the accuracy of credit risk assessments and reports. Deployed and central credit risk management teams fulfil this task.

Management: Credit risk is taken within the constraints of the risk appetite framework. The credit portfolio is managed at an aggregate level to optimise the exposure to this risk. Business units and deployed risk functions, overseen by the group credit risk management function in ERM and relevant board committees, fulfil this role.

Based on the group's credit risk appetite, as measured on a ROE, NIACC and volatility-of-earnings basis, credit risk management principles include holding the appropriate level of capital and pricing for risk on an individual and portfolio basis. The scope of credit risk identification and management practices across the group, therefore, spans the credit value chain, including risk appetite, credit origination strategy, risk quantification and measurement as well as collection and recovery of delinquent accounts.

Credit risk is managed through the implementation of comprehensive policies, processes and controls to ensure a sound credit risk management environment with appropriate credit granting, administration, measurement, monitoring and reporting of credit risk exposure.

Credit risk appetite measures are set in line with overall risk appetite. The aim of the credit risk appetite is to deliver an earnings profile that will perform within acceptable levels of earnings volatility determined by the group's overall risk appetite. In setting credit risk appetite measures:

- the group's credit risk appetite is aligned to the overall group risk appetite:
- credit risk appetite is determined using both a top-down group credit risk appetite and an aggregated bottom-up assessment of the business unit level credit risk appetites; and

stress testing is used to enable the measurement of the financial performance and the credit volatility profile of the different credit business units at a portfolio, segment, franchise and ultimately a diversified group-wide basis.

Formulated, business unit-level credit risk appetite statements are annually reviewed and approved, and risk limits are reported quarterly to and monitored by business unit credit or executive committees and the relevant portfolio credit policy and risk appetite approval committees (subcommittee of the group credit risk management committee). In the credit risk appetite process ERM group credit risk management is responsible to:

- set the requirements in the credit risk appetite framework;
- articulate a top-down group credit risk appetite statement;
- assess alignment between the top-down statement with aggregation of the individual business unit credit risk appetite statements;
- jointly with credit portfolio heads report risk appetite breaches to the FirstRand credit risk management committee; and
- jointly with the franchise CRO, report risk appetite breaches to the RCC committee.

Credit risk limits include the following:

Business unit limits					
Counterparty limits	Borrower's risk grades are mapped to the FirstRand rating scale.				
Collateral limits	For secured loans, limits are based on collateral profiles, e.g. loan-to-value bands.				
Capacity limits	Measures of customer affordability.				
Concentration limits	Limits for concentrations to, e.g. customer segments or high collateral risk.				

Portfolio-level limits

Additional limits for subportfolios subject to excessive loss volatility.

Period under review and focus areas

Period under review Risk management focus areas • Continue to monitor the effect of economic conditions on consumer Aligned credit origination strategies to the group's macroeconomic outlook with particular reference to consumer indebtedness, indebtedness, interest rates, growth and commodity prices and relatively higher interest rates, low economic growth, a depressed adjust credit origination strategies as well as credit portfolio commodity price cycle and regulatory amendments to interest management activities accordingly. rate pricing. Ongoing reviews to ensure alignment of bottom-up and top-down Assessed credit portfolio performance considering stressed credit risk appetite assessments. scenarios to the group's outlook to confirm resilience of credit Continue to refine credit risk appetite approaches to assess credit portfolios within risk appetite under stressed conditions. Assessed adequacy of impairments given current economic Focus on debt counselling trends as the South African consumer conditions. continues to experience strain due to low economic growth. Continued rollout of the group's IFRS 9 programme and refined Continue to rollout the group IFRS 9 programme and related model initial IFRS 9 credit models on pilot products to inform impact development. analysis and optimise approaches prior to implementation. Continue to invest in people, systems and processes related to • Implemented amendments for revised affordability assessment credit model risk management to ensure appropriate governance criteria of the NCA. with increasing model complexity. Continued implementation of Directive 7/2015 requirements on Continue to rollout data architecture refinements related to restructured credit exposures. BCBS 239. Removed impact of implicit support assumptions on regulatory borrower risk ratings. Completed the wholesale rest of Africa credit review.

Credit risk reporting

Reporting of credit risk information follows the credit governance structure illustrated on the next page. The credit portfolio committees (retail, commercial and corporate) report to the FirstRand credit risk management committee on the risk profile of the advances in each portfolio on a biannual basis. These reports include a review of portfolio trends and quality of new business originated to enable an aggregated credit portfolio view for the group.

ERM quarterly provides an aggregated credit risk profile report of each portfolio to the RCC committee with inputs from credit portfolio reports and franchise CRO reports and include:

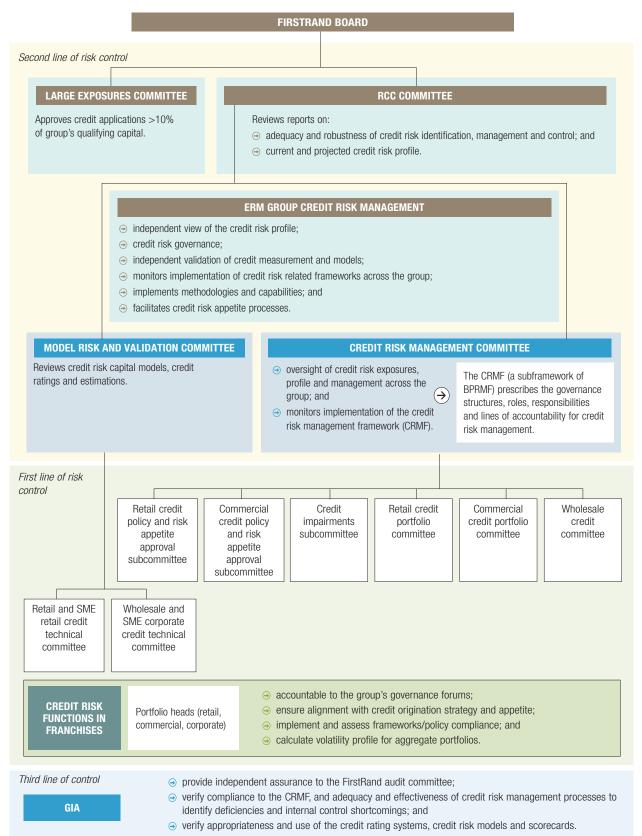
- overview of key credit financial indicators;
- significant credit observations from the respective credit portfolios, such as risk appetite breaches; and
- significant regulatory and credit model related issues.

Franchise CROs report quarterly on the credit risk profile including a high level overview of advances split by portfolio to franchise risk and executive committees.



ORGANISATIONAL STRUCTURE AND GOVERNANCE

CREDIT RISK GOVERNANCE STRUCTURE



At December 2016, the group restated IFRS advances to include certain debt investment securities and credit fair value impairments which previously formed normalisation adjustments. Comparatives have been restated accordingly.

CREDIT ASSETS

CREDIT ASSETS BY TYPE, SEGMENT AND SARB APPROACH

		AIRB approach	Standardised approach subsidiaries			
R million	As at 31 December 2016 Total	FirstRand Bank (SA)	Regulated bank entities in Africa	Other subsidiaries	As at 31 December 2015 Total	As at 30 June 2016 Total
On-balance sheet exposures	1 054 486	888 616	79 106	86 764	972 959	1 015 005
Cash and short-term funds	54 872	41 215	9 812	3 845	51 005	55 785
Money at call and short notice	29 353	21 316	4 350	3 687	27 716	31 768
Balances with central banks	25 519	19 899	5 462	158	23 289	24 017
Gross advances*	880 322	749 020	58 336	72 966	844 271	867 562
Less: impairments	16 151	13 719	1 282	1 150	15 738	16 157
Net advances	864 171	735 301	57 054	71 816	828 533	851 405
Debt investment securities (excluding non-recourse investments)	135 443	112 100	12 240	11 103	93 421	107 815
Off-balance sheet exposures	166 697	151 931	12 016	2 750	163 652	149 718
Total contingencies	46 635	41 290	4 520	825	42 941	42 072
- Guarantees	40 317	35 952	3 664	701	34 304	34 733
- Letters of credit**	6 318	5 338	856	124	8 637	7 339
Irrevocable commitments	115 382	105 961	7 496	1 925	114 413	101 392
Credit derivatives	4 680	4 680	_	_	6 298	6 254
Total	1 221 183	1 040 547	91 122	89 514	1 136 611	1 164 723

^{*} The franchise split of gross advances is provided in the following table.

CREDIT QUALITY OF ASSETS

The following tables provide the credit quality of advances in the in-force portfolio.

CR1: ANALYSIS OF GROSS ADVANCES, DEBT INVESTMENT SECURITIES AND OFF-BALANCE SHEET EXPOSURES

		As at 31 December 2016*							
			Gross exp	osures*					
			Non-d	efaulted exposu	ıres**				
		Net	Neither						
		defaulted	past	One	Two				
		exposures	due nor	instalment	instalments		Allowances/		
R i	million	(NPLs)	impaired	past due	past due	Total	impairments	Net value	
1.	Gross advances	20 851	840 509	11 428	7 534	880 322	16 571	863 751	
	FNB	11 356	346 227	6 131	3 763	367 477	7 429	360 048	
	– Retail	7 221	230 183	3 901	2 225	243 530	4 678	238 852	
	– Commercial	2 235	77 452	204	473	80 364	1 577	78 787	
	Rest of Africa	1 900	38 592	2 026	1 065	43 583	1 174	42 409	
	WesBank	7 136	181 668	5 286	2 647	196 737	4 042	192 695	
	RMB investment banking#	2 288	230 841	10	1 124	234 263	3 707	230 556	
	RMB corporate banking	71	40 645	1	-	40 717	889	39 828	
	FCC (including Group Treasury)	_	41 128	-	_	41 128	504	40 624	
2.	Debt investment securities	_	135 443	-	-	135 443	-	135 443	
3.	Off-balance sheet exposures	_	166 697	-	_	166 697	_	166 697	
4.	Total	20 851	1 142 649	11 428	7 534	1 182 462	16 571	1 165 891	

^{*} The analysis of gross advances, debt investment securities and off-balance sheet exposures was disclosed from June 2016.
** Gross exposures exclude recoverable loan commitments.

^{**} Includes acceptances.

[#] Impaired advances for RMB investment banking include cumulative credit fair value adjustments on the non-performing book.



CR1: ANALYSIS OF GROSS ADVANCES, DEBT INVESTMENT SECURITIES AND OFF-BALANCE SHEET EXPOSURES continued

				As	at 30 June 201	6*		
			Gross exp	osures*				
			Non-d	efaulted exposu	ıres**			
R 1	nillion	Net defaulted exposures (NPLs)	Neither past due nor impaired	One instalment past due	Two instalments past due	Total	Allowances/impairments	Net value
1.	Gross advances	21 282	829 379	11 472	5 429	867 562	16 577	850 985
	FNB	10 973	341 721	5 951	3 129	361 774	7 000	354 774
	– Retail	7 269	226 658	3 988	2 293	240 208	4 575	235 633
	- Commercial	1 941	75 785	129	102	77 957	1 436	76 521
	- Rest of Africa	1 763	39 278	1 834	734	43 609	989	42 620
	WesBank	6 739	184 915	5 483	2 160	199 297	3 847	195 450
•••••	RMB investment banking#	3 440	225 195	38	140	228 813	4 127	224 686
• • • • • • • • • • • • • • • • • • • •	RMB corporate banking	130	36 040	_	_	36 170	849	35 321
	FCC (including Group Treasury)	_	41 508	_	_	41 508	754	40 754
2.	Debt investment securities		150 548	_	_	150 548	28	150 520
3.	Off-balance sheet exposures	84	149 660	_	_	149 744	26	149 718
4.	Total	21 366	1 129 587	11 472	5 429	1 167 854	16 631	1 151 223

^{*} The analysis of gross advances, debt investment securities and off-balance sheet exposures is new disclosure from June 2016.

CR2: CHANGES IN STOCK OF DEFAULTED ADVANCES, DEBT SECURITIES AND OFF-BALANCE SHEET EXPOSURES

R n	nillion	Total
1.	Defaulted credit exposures at 30 June 2016	21 366
2.	Advances defaulted since 30 June 2016	10 744
3.	Return to not defaulted status	(5 205)
4.	Amounts written off	(4 510)
5.	Other changes	(1 544)
6.	Defaulted credit exposures at 31 December 2016	20 851

Past due exposures

Advances are considered past due in the following circumstances:

loans with a specific expiry date (e.g. term loans and vehicle and asset finance (VAF)) and consumer loans repayable by regular instalments (e.g. mortgage loans and personal loans) are treated as overdue where one full instalment is in arrears for one day or more and remains unpaid as at the reporting date; or

- loans payable on demand (e.g. credit cards) are treated as overdue where a demand for repayment was served on the borrower, but repayment has not been made in accordance with the stipulated requirements; or
- revolving facilities are treated as past due when the actual exposure is in excess of approved limits.

In these instances, the full outstanding amount is disclosed as overdue even if part is not yet due.

Past due but not specifically impaired

Advances past due but not specifically impaired include accounts in arrears by one or two full repayments. For the period ended 31 December 2016 exposures to technical and partial arrears of R5.2 billion (December 2015: R8.4 billion and June 2016: R8.2 billion) were classified as neither past due nor impaired in accordance with FirstRand's impairment methodology, primarily driven by retail exposures. There are no past due exposures (more than 90 days) that are not considered to be impaired.

Age analysis of credit exposures

A past due analysis is performed for advances with specific expiry or instalment repayment dates. The analysis is not applicable to overdraft products or products where no specific due date is determined. The level of risk on these types of products is assessed and reported with reference to the counterparty ratings of the exposures. The following tables provide the age analysis of loans and advances, debt securities and off-balance items for the group.

^{**} Gross exposures excludes recoverable loan commitments.

[#] Impaired advances for RMB investment banking include cumulative credit fair value adjustments on the non-performing book.

AGE ANALYSIS OF CREDIT EXPOSURES

		As at 31 December 2016								
		Past due b specifically i								
R million/%	Neither past due nor impaired	One full instalment past due	Two full instalments past due	Impaired (NPLs)	Total					
FNB	346 227	6 131	3 763	11 356	367 477					
- Retail	230 183	3 901	2 225	7 221	243 530					
- Commercial*	77 452	204	473	2 235	80 364					
- Rest of Africa**	38 592	2 026	1 065	1 900	43 583					
WesBank	181 668	5 286	2 647	7 136	196 737					
RMB investment banking	230 841	10	1 124	2 288	234 263					
RMB corporate banking	40 645	1	-	71	40 717					
FCC (including Group Treasury)	41 128	_	-	-	41 128					
Total	840 509	11 428	7 534	20 851	880 322					
Percentage of total book	95.4	1.3	0.9	2.4	100.0					

^{*} Includes public sector.

^{**} Includes FNB's activities in India.

	As at 31 December 2015							
		Past due specificall						
R million/%	Neither past due nor impaired	One full instalment past due	Two full instalments past due	Impaired (NPLs)	Total			
FNB	333 463	3 635	2 187	9 280	348 565			
– Retail	224 448	2 377	1 525	6 041	234 391			
- Commercial*	70 347	101	169	1 663	72 280			
- Rest of Africa**	38 668	1 157	493	1 576	41 894			
WesBank	184 388	5 112	2 246	6 111	197 857			
RMB investment banking	218 034	38	99	3 881	222 052			
RMB corporate banking	45 920	31	_	137	46 088			
FCC (including Group Treasury)	29 709	_	_	_	29 709			
Total	811 514	8 816	4 532	19 409	844 271			
Percentage of total book	96.2	1.0	0.5	2.3	100.0			

^{*} Includes public sector.

^{**} Includes FNB's activities in India.



AGE ANALYSIS OF CREDIT EXPOSURES continued

		As at 30 June 2016						
		Past due specifically						
R million/%	Neither past due nor impaired	One full instalment past due	Two full instalments past due	Impaired (NPLs)	Total			
FNB	341 721	5 951	3 129	10 973	361 774			
- Retail	226 658	3 988	2 293	7 269	240 208			
- Commercial*	75 785	129	102	1 941	77 957			
- Rest of Africa**	39 278	1 834	734	1 763	43 609			
WesBank	184 915	5 483	2 160	6 739	199 297			
RMB investment banking	225 195	38	140	3 440	228 813			
RMB corporate banking	36 040	-	_	130	36 170			
FCC (including Group Treasury)	41 508	-	_	_	41 508			
Total	829 379	11 472	5 429	21 282	867 562			
Percentage of total book	95.6	1.3	0.6	2.5	100.0			

^{*} Includes public sector.

Impairment of financial assets

Adequacy of impairments is assessed through the ongoing review of the quality of credit exposures in line with the requirements of the related accounting standard (IAS 39). Individual advances are classified on at least a monthly basis into one of the following three categories:

- past due
- defaulted (also referred to as NPLs); or
- neither past due nor impaired with associated criteria and impairment assessments as illustrated in the following table.

IMPAIRMENT CLASSIFICATION

Type of advance	Past due	Defaulted
Loans repayable by regular instalments (e.g. mortgage loans and personal loans)	More than one instalment in arrears as at reporting date.	Three or more instalments in arrears as at reporting date.
Loans payable on demand (e.g. credit cards)	Repayment has not been made in accordance with the stipulated requirements for more than 30 days.	Repayment has not been made in accordance with the stipulated requirements for more than 90 days.
Revolving facilities	Exposure is in excess of approved limits for more than 30 days.	Exposure is in excess of approved limits for more than 90 days.

Advances are also categorised as defaulted where there are material indicators of unlikeliness to pay, e.g. the counterparty is under judicial management or declared insolvent. This classification is consistently used for both accounting and regulatory purposes. All defaulted exposures are considered impaired.

^{**} Includes FNB's activities in India.

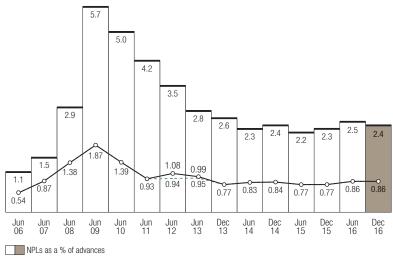
IMPAIRMENT ASSESSMENT

Impairment classification	Description
Defaulted	Exposure is in default, hence an account-level specific impairment is raised. This is based on the difference between the exposure and the net present value of expected recoveries.
Past due	Exposures reflect objective evidence of the occurrence of an impairment event, hence a portfolio specific impairment is raised. This is based on a pooled level assessment (by grouping homogeneous pools), considering the proportion of exposure that is expected to subsequently default and the associated net present value of expected recoveries.
Neither defaulted nor past due	Exposures do not reflect objective evidence of the occurrence of an impairment event, however, historical analysis indicates that an impairment event has incurred on some exposures, with an associated loss expected. An associated pooled level incurred-but-not-reported (IBNR) impairment is, therefore, calculated. This considers the proportion of exposures expected to migrate to either a past due or defaulted state over an emergence period with subsequent allowance for required impairments once in a past due or defaulted state.

Income statement impairment charge

Impairments are recognised through the creation of an impairment reserve and an impairment charge in the income statement. Exposures considered uncollectable are written off against the reserve for loan impairments. Subsequent recoveries against these facilities decrease the credit impairment charge in the income statement in the year of recovery. The following chart shows the history of the NPL ratio and income statement impairment charge.

NPLs AND IMPAIRMENT HISTORY ON A NORMALISED BASIS



Oradit less ratio (/

—o— Credit loss ratio %

---- Credit loss ratio % (excluding merchant acquiring event)



Sector and geographical analysis of defaulted advances

The sector and geographical analysis of defaulted exposures are based on where the credit risk originates, i.e. the geography and sector of operation.

SECTOR DEFAULTED ADVANCES

		As at 31 Dec	ember 2016	
R million	Defaulted advances before write-offs	Less: write-offs excluding interest in suspense	Defaulted advances net of write-offs	Specific impairments
Agriculture	682	6	676	130
Banks	_	_	_	_
Financial institutions	135	13	122	50
Building and property development	1 550	32	1 518	765
Government, Land Bank and public authorities	14	_	14	7
Individuals	16 354	2 726	13 628	5 089
Manufacturing and commerce	1 876	82	1 794	891
Mining	2 475	1 488	987	125
Transport and communication	296	11	285	156
Other services	1 979	152	1 827	769
Total	25 361	4 510	20 851	7 982

		As at 30 Ju	une 2016*	
R million	Defaulted advances before write-offs	Less: write-offs excluding interest in suspense	Defaulted advances net of write-offs	Specific impairments
Agriculture	591	17	574	115
Banks	45	_	45	10
Financial institutions	127	35	92	43
Building and property development	1 767	313	1 454	235
Government, Land Bank and public authorities	14	2	12	7
Individuals	19 639	5 968	13 671	4 927
Manufacturing and commerce	1 739	185	1 554	827
Mining	2 064	40	2 024	155
Transport and communication	352	64	288	167
Other services	1 814	246	1 568	666
Total	28 152	6 870	21 282	7 152

^{*} Sector defaulted advances is new disclosure from June 2016.

GEOGRAPHIC DEFAULTED ADVANCES*

	As at 31 December 2016				
R million	Defaulted advances before write-offs	Less: write-offs excluding interest in suspense	Defaulted advances net of write-offs	Specific impairments	
South Africa	21 047	3 487	17 560	6 984	
Rest of Africa	3 471	756	2 715	658	
UK	526	234	292	175	
Other Europe	64	_	64	55	
North America	119	33	86	15	
Australasia	1	_	1	1	
Asia	133	_	133	94	
Total	25 361	4 510	20 851	7 982	

^{*} There were no defaults in South America during the period.

	As at 30 June 2016**				
R million	Defaulted advances before write-offs	Less: write-offs excluding interest in suspense	Defaulted advances net of write-offs	Specific impairments	
South Africa	23 492	6 381	17 111	6 173	
Rest of Africa	3 650	81	3 569	622	
UK	625	378	247	150	
Other Europe	113	_	113	58	
North America	129	30	99	52	
Australasia	1	_	1	1	
Asia	142	_	142	96	
Total	28 152	6 870	21 282	7 152	

^{*} There were no defaults in South America during the period.

^{**} Geographic defaulted advances included in disclosure from June 2016.



SECTOR AND GEOGRAPHIC DEFAULTED DEBT INVESTMENT SECURITIES AND OFF-BALANCE SHEET EXPOSURES*

	As at 30 June 2016**		
R million	Defaulted advances before write-offs	Less: write-offs excluding interest in suspense	Defaulted exposures net of write-offs
Debt investment securities			
Sector – other services	50	50	_
Geography – South Africa	50	50	_
Off-balance sheet items			•
Sector	84	_	84
- Manufacturing and commerce	36	_	36
- Mining	48	_	48
Geography — South Africa	84		84

^{*} There were no defaulted debt investment securities and off-balance sheet items during the current period.

Restructured exposures

A restructure is defined as any formal agreement between the customer and the group to amend contractual amounts due (or the timing thereof). This can be initiated by the customer, the group or a third-party (e.g. debt management companies). A restructure is defined as a distressed restructure where it is entered into:

- from a position of arrears;
- where an account was in arrears at any point during the past six months; or
- from an up-to-date position, in order to prevent the customer from going into arrears.

Distressed restructuring is regarded as objective evidence of impairment. Classification of distressed restructures adheres to the relevant and regulatory requirements. Restructured exposures shown below are applicable to South African operations. Retail restructured exposures include loans under debt review of R6.5 billion. Unimpaired restructures include those that are considered performing and not distressed.

RESTRUCTURED EXPOSURE SPLIT BETWEEN IMPAIRED AND NOT IMPAIRED*

	As	at 31 December 20	16
R million	Impaired	Not impaired	Total
Advances	5 609	5 696	11 305

	As at 30 June 2016		
R million	Impaired	Not impaired	Total
Advances	5 991	4 879	10 870

^{*} This disclosure is in terms of Directive 7: restructured exposures which was implemented by the group in May 2016.

^{**} Sector and geographic defaulted debt investment securities and off-balance sheet exposures are included in disclosure from June 2016.

Monitoring of weak exposures

Credit exposures are actively monitored throughout the life of transactions. Portfolios are formally reviewed by portfolio committees either monthly or quarterly to assess levels of individual counterparty risk, portfolio risks and to act on any early warning indicators. The performance and financial condition of borrowers is monitored based on information from internal sources, credit bureau, borrowers and publicly-available information. The frequency of monitoring and contact with the borrower is determined from the borrower's risk profile. Reports on the overall quality of the portfolio are monitored at business unit level, portfolio level and in aggregate for the group.

Management of concentration risk

Credit concentration risk is the risk of loss to the group arising from an excessive concentration of exposure to a single counterparty, industry, market, product, financial instrument or type of security, country or region, or maturity. This concentration typically exists when a number of counterparties are engaged in similar activities and have similar characteristics that would cause their ability to meet contractual obligations to be similarly affected by changes in economic or other conditions.

Concentration risk is managed based on the nature of the credit concentration within each portfolio. The group's credit portfolio is well diversified, achieved through setting maximum exposure guidelines to individual counterparties. The group constantly reviews its concentration levels and sets maximum exposure guidelines for these. Excesses are reported to the RCC committee.

Geographic, industry and residual maturity concentration risk

Geographically, most of the group's exposures are in South Africa. The following tables provide the geographical, industry and residual maturity split of gross advances after deduction of interest in suspense and debt investment securities (excluding non-recourse investments and off-balance sheet exposures).

BREAKDOWN OF EXPOSURES ACROSS GEOGRAPHICAL AREAS

	As at 31 December 2016		As at 31 Dec	As at 31 December 2015		As at 30 June 2016	
R million	Gross advances and debt investment securities*	Off-balance sheet exposures**	Gross advances and debt investment securities*	Off-balance sheet exposures**	Gross advances and debt investment securities*	Off-balance sheet exposures**	
South Africa	835 916	139 748	762 721	127 665	795 293	120 023	
Rest of Africa	96 670	15 352	98 518	20 790	95 742	16 567	
United Kingdom	54 093	5 494	53 700	620	54 228	7 451	
Other Europe	5 850	2 741	6 850	3 847	7 284	2 789	
North America	12 199	424	4 751	430	9 973	452	
South America	16	_	1 156	24	952	-	
Australasia	1 845	125	1 279	2 463	2 411	140	
Asia	9 176	2 813	8 717	1 515	9 494	2 296	
Total	1 015 765	166 697	937 692	157 354	975 377	149 718	

^{*} Debt investment securities excludes non-recourse investments.

^{**} Significant off-balance sheet exposures. December 2015 off-balance sheet exposures exclude credit derivatives.



BREAKDOWN OF EXPOSURES ACROSS INDUSTRIES

	As at 31 Dec	As at 31 December 2016		ıne 2016#
R million	Gross advances and debt investment securities*	Off-balance sheet exposures**	Gross advances and debt investment securities*	Off-balance sheet exposures**
Agriculture	32 369	2 543	31 351	858
Banks and financial services	123 031	32 023	122 738	25 303
Building and property development	53 300	4 982	49 997	2 861
Government, Land Bank and public authorities	140 984	11 475	120 699	8 104
Individuals	403 357	42 270	417 638	50 000
Manufacturing and commerce	104 428	22 515	100 515	17 381
Mining	19 097	16 296	19 823	17 483
Transport and communication	19 038	10 346	21 447	4 658
Other services	120 161	24 247	91 169	23 070
Total	1 015 765	166 697	975 377	149 718

^{*} Debt investment securities exclude non-recourse investments.

BREAKDOWN OF EXPOSURES PER RESIDUAL MATURITY

	As at 31 Dece	As at 31 December 2016		As at 30 June 2016#	
R million	Gross advances and debt investment securities*	Off-balance sheet exposures**	Gross advances and debt investment securities*	Off-balance sheet exposures**	
Less than one year (including call)	363 919	162 496	362 011	144 613	
Between 1 year and 5 years	359 605	3 079	346 460	1 766	
Over 5 years	272 631	1 122	242 582	3 339	
Non-contractual amounts	19 610	_	24 324	_	
Total	1 015 765	166 697	975 377	149 718	

^{*} Debt investment securities exclude non-recourse investments.

^{**} Significant off-balance sheet exposures.

[#] The breakdown of exposures across industries for debt investment securities and off-balance sheet items disclosed from June 2016.

^{**} Significant off-balance sheet exposures.

[#] The breakdown of exposures per residual maturity of debt investment securities and off-balance sheet exposures disclosed from June 2016.

CREDIT RISK MITIGATION

The group's credit risk mitigation approach is described on page 14.

Furthermore, it is the group's policy that all items of collateral are valued at the inception of a transaction and at various points throughout the life of a transaction, either through physical inspection or indexation methods, as appropriate. For corporate and commercial portfolios, the value of collateral is reviewed as part of the annual facility review. For mortgage portfolios, collateral valuations are updated on an ongoing basis through statistical indexation models. In the event of default, however, more detailed reviews and valuations of collateral are performed, which yields a more accurate financial effect.

Limited on- and off-balance sheet netting is used within the group in the process of determining exposure to credit risk. RMB and FNB apply netting for corporate, SME corporate, banks, securities firms, public sector and sovereign exposures based on facility type, natural set off, net exposure determination rules and ceding rules. The policies followed are documented and strictly governed by the applicable regulatory clauses.

CR3: CREDIT RISK MITIGATION TECHNIQUES

	As at 31 December 2016 Exposures				
	Unsecured	Secured by collateral			ncial guarantees
R million	carrying value	Carrying value	Secured amount	Carrying value	Secured amount
Total advances and debt securities	215 633	783 981	783 981	6 048	5 426
Of which defaulted:	4 259	8 610	8 610	_	_

	As at 30 June 2016**						
	Exposures*						
	Unsecured	Secured b	y collateral	Secured by financial guarantees			
R million	carrying value	Carrying value	Secured amount	Carrying value	Secured amount		
Total advances and debt securities	178 141	781 078	781 078	5 532	5 532		
Of which defaulted:	2 417	11 713	11 713	_			

^{*} No exposures were secured by credit derivatives during the period.

^{**} Credit risk mitigation techniques disclosed from June 2016.



CREDIT RISK UNDER THE ADVANCED INTERNAL RATINGS-BASED (AIRB) APPROACH

Credit risk is one of the core risks assumed in pursuit of the group's business objectives and is the most significant risk type in terms of regulatory and economic capital requirements. The use of quantitative models is crucial to the successful management of credit risk, with models being applied across the credit value chain to drive business decisions and to measure and report on credit risk.

Technical requirements for the development of credit risk models are captured in model-type specific model development frameworks, while model governance, validation and implementation requirements are articulated in the group's model risk management framework for credit risk. Where applicable, independent validation of credit risk models is performed according to requirements articulated in model-type specific independent validation frameworks.

Credit risk models are widely employed in the assessment of capital requirements, origination, pricing, impairment calculations and stress testing of the credit portfolio. All of these models are built on a number of client and facility rating models, in line with the SARB AIRB approach requirements and the group's model building frameworks. Credit risk approaches employed across the group are shown in the following table.

Basel approach	FirstRand Bank SA	Remaining FirstRand entities
AIRB	✓	
Standardised approach		✓

The credit risk approaches shown translate into the following composition per major portfolio within the group, based on total credit extended.

EAD% per portfolio	AIRB	Standardised approach
Retail	86	14
Commercial	81	19
Corporate	89	11

Even though the remaining subsidiaries do not have regulatory approval to use the AIRB approach, the same or similar models are applied for the internal assessment of credit risk on the standardised approach. The models are used for the internal assessment of the three primary credit risk components:

- probability of default (PD);
- exposure at default (EAD); and
- loss given default (LGD).

Management of the credit portfolio is reliant on these three credit risk measures. PD, EAD and LGD are inputs into the portfolio and group-level credit risk assessment where the measures are combined with estimates of correlations between individual counterparties, industries and portfolios to reflect diversification benefits across the portfolio.

Probability of defa	ult
Definition	The probability of a counterparty defaulting on any of its obligations over the next 12 months. A measure of the counterparty's ability and willingness to repay facilities granted.
Dimensions	Time-driven: counterparty is in arrears for more than 90 days or three instalments. Event-driven: there is reason to believe that the exposure will not be recovered in full and has been classified as such.
Application	 All credit portfolios. Recognition of NPLs for accounting.
PD measures	Through-the-cycle (TTC) PD measures reflect long-term, average default expectations over the course of the economic cycle. TTC PDs are inputs in economic and regulatory capital calculations.
	Point-in-time (PIT) PD measures reflect default expectations in the current economic environment and thus tend to be more volatile than TTC PDs. PIT PDs are used in credit portfolio management, including risk appetite and portfolio monitoring.
Measure application	Management of exposure to credit risk.

The group employs a granular, 100-point master rating scale, which has been mapped to the continuum of default probabilities, as illustrated in the following table. These mappings are reviewed and updated on a regular basis. The group currently only uses mapping to S&P Global Ratings (S&P) rating scales.

MAPPING OF FIRSTRAND (FR) GRADES TO RATING AGENCY SCALES

FR rating	Midpoint PD	International scale mapping	
1 – 14	0.06%	AAA, AA, A	FR 1 is the lowest PD and FR 100 the highest.
15 – 25	0.29%	BBB	External ratings have also been mapped to the master rating scale
26 – 32	0.77%	BB+, BB	for reporting purposes.
33 – 39	1.44%	BB-	
40 - 53	2.52%	B+	
54 - 83	6.18%	В	
84 – 90	13.68%	B-	
91 – 99	59.11%	Below B-	
100	100%	D (defaulted)	

Exposure at default	
Definition	The expected exposure to a counterparty through a facility should the counterparty default over the next 12 months. It reflects commitments made and facilities granted that have not been paid out and may be drawn over the period under consideration (i.e. off-balance sheet exposures). It is also a measure of potential future exposure on derivative positions.
Application	A number of EAD models, which are tailored to the respective portfolios and products employed, are in use across the group. These have been developed internally and are calibrated to historical default experience.

Loss given default	
Definition	The economic loss on a particular facility upon default of the counterparty is expressed as a percentage of exposure outstanding at the time of default.
Dependent on	 Type, quality and level of subordination. Value of collateral held compared to the size of overall exposure. Effectiveness of the recovery process and timing of cash flows received during the workout or restructuring process.
Application	 All credit portfolios. Recognition of NPLs for accounting.
Distinctions	Long-run expected LGDs (long-run LGDs). LGDs reflective of downturn conditions: more conservative assessment of risk, incorporating a degree of interdependence between PD and LGD that can be found in a number of portfolios, i.e. instances where deteriorating collateral values are also indicative of higher default risk; and used in the calculation of regulatory capital estimates.

Expected loss (EL)

EL, the product of the primary risk measures PD, EAD and LGD, is a forward-looking measure of portfolio or transaction risk. It is used for a variety of purposes along with other risk measures. EL is not directly comparable to impairment levels, as EL calculations are based on the regulatory parameters, TTC PD and downturn LGD, whilst impairment calculations are driven by IFRS requirements.



Credit risk model development and approval

Requirements for the model development and validation process, including governance requirements, implementation requirements and associated roles and responsibilities, are articulated in the group's model risk management framework for credit risk and apply to all credit risk models used across the group.

Roles and responsibilities related to the model risk management process, as well as model governance and validation requirements, are defined in this framework with reference to the stages of the credit risk model life cycle. Governance and validation requirements for new model developments also apply to significant model changes which are defined as changes to the structure of a model or model rating factors.

The following roles are defined to ensure that model risk is adequately managed across the credit value chain and throughout the credit risk model life cycle.

- Model owner responsible for the overall performance of the model, including ensuring that the model is implemented correctly and used appropriately. The model owner should be the head of credit for the portfolio within which the model will be applied, unless model ownership has been delegated to an appropriate central function.
- Model developer responsible for the development of the model, using appropriate methodologies that align with the intended model use and for producing appropriate model documentation. The model developer should be a senior analyst in the business unit in which the model will be used, unless model development has been outsourced to an appropriate central function.
- Model validator sets the framework against which the model will be validated and performs the independent validation of the model in accordance with the relevant approved model validation framework. The model validator should be in ERM, unless independent validation has been delegated to another function or area that is independent from the model owner and model developer.
- Model approver responsible for the final approval of the model for its intended use. Model approval is the responsibility of the RCC committee or its designated subcommittee and the final model approver is dependent on model type and model risk classification.
- GIA responsible for monitoring adherence to the requirements of the model risk management framework for credit risk and other related policies and frameworks.

The model governance and validation process for each stage of the credit risk model life cycle is described in the following table. This is applicable to new model developments and significant model changes.

MODEL GOVERNANCE AND VALIDATION IN THE CREDIT MODEL LIFE CYCLE

LIFE CYCLE STAGE	DESCRIPTION	MODEL GOVERNANCE AND VALIDATION	
Model development	New models, updates and calibrations.	Model and documentation sign off by model owner. Approval by retail/wholesale technical committee.	
Independent validation	Independent review of model, underlying methodology and results.	In line with requirements of regulatory capital model validation frameworks.	
Model approval	Final approval indicating model may be implemented and used as intended.	Approval by: MRVC; RCC committee (for material models); and SARB (if required by SARB communication policy).	
Model implementation	Into production environment.	Model owner sign off.	
Post-implementation review	Confirmation of successful model implementation.	Model owner sign off. Noted at MRVC. Material models noted at RCC committee.	
Ongoing monitoring and validation	Confirmation of continued model relevance and accuracy.	Model owner, technical committee sign off results. Annual independent validation noted at: MRVC; RCC committee (material models); and SARB (if required by SARB communication policy).	

AIRB models

AIRB models are developed to align with regulatory requirements for development of regulatory capital models. Retail portfolio models are developed using methodologies described in the retail AIRB model development and validation framework. Corporate models are developed using statistical, expert judgement, hybrid and simulation approaches, with the approach selected according to the characteristics of the exposures modelled.

Regulatory required parameter floors are applied to the models as follows:

- **●** PDs 0.3%;
- ◆ residential mortgage LGDs 10%; and
- EADs 100% of drawn exposure.

The table below gives an overview of the key AIRB models used for regulatory capital calculation within each portfolio, including a breakdown of the individual models applied and a description of the modelling methodologies.

Portfolio	Number of models	Model type	Model description
Large corporate portfolios (RMB and WesBank) Private sector counterparties including corporates and securities firms, and public sector counterparties. Products include loan facilities,	14	PD	 Internally developed statistical rating models using internal and external data covering full economic cycles are used and results supplemented with qualitative assessments based on international rating agency methodologies. All ratings (and associated PDs) are reviewed by the wholesale credit committee and, if necessary, final adjustments made to ratings to reflect information not captured by the models.
structured finance facilities, contingent products and derivative instruments.		LGD	■ LGD estimates are based on modelling a combination of internal and suitably adjusted international data with the wholesale credit committee responsible for reviewing and approving LGDs. The LGD models consider the type of collateral underlying the exposure.
		EAD	● EAD estimates are based on suitably adjusted international data. The credit conversion factor approach is typically used to inform the EAD estimation process. The same committee process responsible for reviewing and approving PDs is applied to the review and approval of EADs.
Low default portfolios: sovereign and bank exposures South African and non-South African banks, local and foreign currency sovereign and sub-sovereign exposures.	10	PD	 PDs are based on internally-developed statistical and expert judgement models, which are used in conjunction with external rating agency ratings and structured peer group analysis to determine final ratings. PD models are calibrated using external default data and credit spread market data. All ratings (and associated PDs) are reviewed by the wholesale credit committee, and, if necessary, final adjustments made to ratings to reflect information not captured by the model.
		LGD	● LGD estimates are based on modelling a combination of internal and suitably adjusted international data which are reviewed by the same committee process responsible for reviewing and approving PDs. The LGD models consider the type of collateral underlying the exposure.
		EAD	Estimation is based on regulatory guidelines with credit conversion factors being used as appropriate. External data and expert judgement are used due to the low default nature of the exposures.



Portfolio	Number of models	Model type	Model description
Specialised lending portfolios (RMB, FNB Commercial) Exposures to private-sector counterparties for the financing of	4	PD	The rating systems are based on hybrid models using a combination of statistical cash flow simulation models and qualitative scorecards calibrated to a combination of internal data and external benchmarks.
project finance, high volatility commercial real estate, and income-producing real estate.			 All ratings (and associated PDs) are reviewed by the wholesale credit committee and, if necessary, final adjustments made to ratings to reflect information not captured by the models.
		LGD	The LGD estimation process is similar to that followed for PD with simulation and expert judgement used as appropriate.
		EAD	EAD estimates are based on internal as well as suitably adjusted external data. The credit conversion factor approach is typically used to inform the EAD estimation process.
Commercial portfolios (FNB Commercial) Exposures to SME corporate and	12	PD	SME corporate – counterparties are scored using financial statement information in addition to other internal risk drivers, the output of which is calibrated to internal historical default data.
retail clients. Products include loan facilities, contingent products and term lending products.			SME retail – the SME retail portfolio is segmented into homogeneous pools and subpools through an automated scoring process using statistical models that incorporate product type, customer behaviour and delinquency status. PDs are estimated for each subpool based on internal product level history associated with the respective homogeneous pools and subpools.
		LGD	● SME corporate — recovery rates are largely determined by collateral type and these have been set with reference to internal historical loss data, external data and Basel guidelines.
			● SME retail — LGD estimates are applied on a portfolio level, estimated from internal historical default and recovery experience.
		EAD	• SME corporate – portfolio-level credit conversion factors are estimated on the basis of the group's internal historical experience and benchmarked against international studies.
			● SME retail — EAD estimates are applied on a portfolio level, estimated from internal historical default and recovery experience.
Residential mortgages (FNB HomeLoans, One Account, FNB Housing Finance and Wealth (RMB Private Bank and FNB Private	15	PD	Portfolios/products are segmented into homogeneous pools and subpools through an automated scoring process using statistical models that incorporate product type, loan characteristics, customer behaviour, application data and delinquency status.
Clients)) Exposures to individuals for financing of residential properties.			PDs are estimated for each subpool based on internal product level history associated with the respective homogeneous pools and subpools.
		LGD	● LGD estimates are based on subsegmentation with reference to collateral or product type, time in default and post-default payment behaviour. Final estimates are based on associated analyses and modelling of historical internal loss data.
		EAD	EAD estimates are based on subsegmentation with reference to product-level analyses and modelling of historical internal exposure data.

Portfolio	Number of models	Model type	Model description
Qualifying revolving retail exposures (FNB Card, FNB Value Banking Solutions and Wealth (RMB Private Bank and FNB Private Clients)) Exposures to individuals providing a revolving limit through credit card or	9	PD	 Portfolios/products are segmented into homogeneous pools and subpools through an automated scoring process using statistical models that incorporate product type, loan characteristics, customer behaviour, application data and delinquency status. PDs are estimated for each subpool based on internal product level history associated with the respective homogeneous pools and subpools.
overdraft facility.		LGD	● LGD estimates are based on subsegmentation with reference to product type. Final estimates are based on associated analyses and modelling of historical internal loss data.
		EAD	◆ EAD measurement plays a significant role in the assessment of risk due to the typically high level of undrawn facilities characteristic of these product types. EAD estimates are based on actual historic EAD, segmented appropriately, e.g. straight versus budget in the case of credit cards.
Other exposures (FNB personal loans, WesBank loans and VAF)	15	PD	Portfolios/products are segmented into homogeneous pools and subpools through an automated scoring process using statistical models that incorporate product type, loan characteristics, customer behaviour, application data and delinquency status.
			PDs are estimated for each subpool based on internal product- level history associated with the respective homogeneous pools and subpools.
		LGD	● LGD estimates are based on subsegmentation with reference to collateral (in the case of WesBank VAF) or product type and time in default. Final estimates are based on associated analyses and modelling of historical internal loss data.
		EAD	EAD estimates are based on subsegmentation with reference to product-level analyses and modelling of historical internal exposure data.

Use of credit risk measures

The following credit risk management actions and measures are used extensively in the group's credit risk processes:

- credit approval;
- pricing;
- limit setting/risk appetite;
- reporting;
- provisioning;
- capital calculations and allocation;
- profitability analysis;
- stress testing;
- $\ensuremath{\bullet}$ risk management and credit monitoring; and
- performance measurement.



The following table describes the use of credit risk actions and measures across a number of key areas and business processes related to the management of the credit portfolio.

USE OF CREDIT RISK MANAGEMENT ACTIONS AND MEASURES IN THE CREDIT LIFE CYCLE

	Corporate	Retail
Determination of portfolio and client acquisition strategy	 Assessment of overall portfolio credit risk determined by PD, EAD and LGD. Acquisition and overall strategy set in terms of appropriate limits and group risk appetite. 	 Same measures as for corporate. Credit models determine loss thresholds used in setting of credit risk appetite.
Determination of individual and portfolio limits	 Industry and geographical concentrations. Ratings. Risk-related limits on the composition of portfolio. Group credit risk appetite. 	 Same measures as for corporate. Modelled versus actual experience is evaluated in setting of risk appetite.
Profitability analysis and pricing decisions	PD, EAD and LGD used to determine pricing.Economic profit used for profitability.	Same measures as for corporate.
Credit approval	 Consideration of application's ratings. Credit risk appetite limits. Projected risk-adjusted return on economic capital (PD, EAD and LGD are key inputs in these measures). 	 Automated based on application scorecards (scorecards are reflective of PD, EAD and LGD). Assessment of client's affordability.
Credit monitoring and risk management	 Risk assessment based on PD, EAD and LGD. Counterparty FR grades updated based on risk assessment. Additional capital for large transactions that will increase concentration risk. 	 Same measures as for corporate. Monthly analysis of portfolio and risk movements used in portfolio management and credit strategy decisions.
Impairments	 PD and LGD used in assessment of impairments and provisioning. Judgemental assessment to determine adequacy of provisions. 	Loss identification period PD, LGD and roll rates used for specific, portfolio and incurred but not reported provisions.
Regulatory and economic capital calculation	Primary credit risk measures, PD, EAD and LGD are the most important inputs.	Primary credit risk measures, PD, EAD and LGD are the most important inputs.
Reporting to senior management and board	 Portfolio reports discussed at franchise and business unit risk committee meetings. Quarterly portfolio reports submitted to credit risk management and RCC committees. 	 Portfolio reports discussed at franchise and business unit risk committee meetings. Quarterly portfolio reports submitted to credit risk management and RCC committees.

Credit risk exposures by portfolio and PD range

The following tables provide the main parameters used for the calculation of capital requirements for the exposures in the AIRB models split by asset class and shown within fixed regulatory PD ranges. These exposures are for FirstRand Bank (SA), where AIRB models are applied. The information in the different columns is explained as follows:

- regulatory supplied credit conversion factors (CCF) are used;
- the credit risk mitigation (CRM) measures applied are described on page 14;
- the number of obligors corresponds to the number of counterparties in the PD band;
- the average PD and LGD are weighted by EAD;
- the average maturity is the obligor maturity in years weighted by EAD;
- RWA density is the total RWA to EAD post CRM; and
- provisions are only included on a total basis.

Two model changes were introduced that reduced the overall PDs and EADs for the wholesale credit portfolio, which subsequently led to RWA decreases on the affected exposures.

The PD term structure was updated, which resulted in marginal changes in the applied one-year PDs. New CCFs used in the calculation of EAD were implemented for the unutilised portion of committed facilities in parts of the wholesale credit portfolio. A key result of these changes is that shifts in exposures between PD buckets will be observed when comparing the current book to that reported at June 2016 for corporate, specialised lending and banks portfolios.

CR6: AIRB - FIRSTRAND BANK (SA) CREDIT RISK EXPOSURES BY PORTFOLIO AND PD RANGE

	Total FirstRand Bank (SA) As at 31 December 2016								
PD scale									
	Original on-balance sheet gross exposure R million	Off-balance sheet exposures pre-CCF R million	Average CCF %	EAD post- CRM and post-CCF R million	Average PD %	Number of obligors			
0.00 to < 0.15	133 858	20 576	45.03	139 661	0.02	145 996			
0.15 to < 0.25	115 135	46 636	50.68	121 275	0.18	104 839			
0.25 to < 0.50	111 628	62 687	45.19	136 869	0.38	275 805			
0.50 to < 0.75	55 165	31 110	53.24	71 102	0.70	494 053			
0.75 to < 2.50	270 476	64 418	47.79	293 701	1.67	2 601 114			
2.50 to < 10.00	121 613	16 151	41.51	129 035	5.04	1 827 736			
10.00 to < 100.00	30 366	4 966	24.97	30 957	30.35	1 102 939			
100.00 (default)	16 252	60	1.88	16 224	100.00	1 122 295			
Total	854 493	246 604	47.25	938 824	4.08	7 674 777			

	Total FirstRand Bank (SA)								
PD scale	As at 31 December 2016								
	Average LGD %	Average maturity Years	RWA R million	RWA density %	Expected loss R million	Provisions R million			
0.00 to < 0.15	30.03	2.09	9 057	6.49	11				
0.15 to < 0.25	32.77	1.66	30 438	25.10	65				
0.25 to < 0.50	28.03	1.39	43 329	31.66	142				
0.50 to < 0.75	29.92	1.21	27 314	38.42	146				
0.75 to < 2.50	26.38	0.95	119 042	40.53	1 156				
2.50 to < 10.00	35.83	1.24	87 748	68.00	2 062				
10.00 to < 100.00	39.83	0.98	34 470	111.35	3 459				
100.00 (default)	42.19	1.43	13 356	82.32	6 476				
Total	30.27	1.34	364 754	38.85	13 517	13 287			



	Total FirstRand Bank (SA)							
		As at 30 June 2016						
PD scale	Original on-balance sheet gross exposure R million	Off-balance sheet exposures pre-CCF R million	Average CCF %	EAD post- CRM and post-CCF R million	Average PD %	Number of obligors		
0.00 to < 0.15	202 581	31 089	57.59	157 192	0.07	140 981		
0.15 to < 0.25	46 826	35 929	55.70	80 116	0.21	102 951		
0.25 to < 0.50	88 503	54 821	51.59	110 293	0.37	265 777		
0.50 to < 0.75	52 241	20 910	56.10	63 088	0.61	519 395		
0.75 to < 2.50	271 490	63 381	57.73	293 256	1.46	2 570 708		
2.50 to < 10.00	158 973	21 085	56.08	144 513	4.34	1 919 358		
10.00 to < 100.00	32 786	4 214	31.86	34 168	28.76	1 204 366		
100.00 (default)	16 133	86	79.20	16 123	100.00	1 073 723		
Total	869 533	231 515	55.18	898 749	4.18	7 797 259		

	Total FirstRand Bank (SA)								
	As at 30 June 2016								
PD scale	Average LGD %	Average maturity Years	RWA R million	RWA density %	Expected loss R million	Provisions R million			
0.00 to < 0.15	28.35	1.55	15 489	9.85	53				
0.15 to < 0.25	34.96	1.80	23 127	28.87	43				
0.25 to < 0.50	26.09	1.31	30 452	27.61	98				
0.50 to < 0.75	31.40	0.96	21 326	33.80	111				
0.75 to < 2.50	26.32	0.99	109 919	37.48	1 033				
2.50 to < 10.00	37.19	1.37	100 210	69.34	2 211				
10.00 to < 100.00	38.73	0.85	37 560	109.93	3 788				
100.00 (default)	41.08	1.46	12 204	75.69	6 047				
Total	30.26	1.26	350 287	38.97	13 384	13 157			

CR6: AIRB - FIRSTRAND BANK (SA) CREDIT RISK EXPOSURES BY PORTFOLIO AND PD RANGE continued

		Corporate As at 31 December 2016							
PD scale	Original on-balance sheet gross exposure R million	Off-balance sheet exposures pre-CCF R million	Average CCF %	EAD post- CRM and post-CCF R million	Average PD %	Number of obligors			
0.00 to < 0.15	6 231	2 949	57.88	8 211	0.08	13			
0.15 to < 0.25	62 247	33 459	52.54	73 655	0.17	91			
0.25 to < 0.50	42 570	25 909	52.42	51 640	0.38	132			
0.50 to < 0.75	22 323	17 336	60.19	30 575	0.74	111			
0.75 to < 2.50	25 692	13 973	56.62	32 846	1.80	197			
2.50 to < 10.00	6 042	1 479	56.02	6 767	4.43	81			
10.00 to < 100.00	841	732	52.29	1 187	23.62	52			
100.00 (default)	1 206	-	-	1 174	100.00	6			
Total	167 152	95 837	54.70	206 055	1.41	683			

	Corporate								
	As at 31 December 2016								
PD scale	Average LGD %	Average maturity Years	RWA R million	RWA density %	Expected loss R million	Provisions R million			
0.00 to < 0.15	28.22	1.68	1 136	13.83	3				
0.15 to < 0.25	33.82	1.79	20 495	27.83	42				
0.25 to < 0.50	34.38	1.95	23 262	45.05	67				
0.50 to < 0.75	31.34	1.65	16 323	53.38	72				
0.75 to < 2.50	34.06	2.07	26 381	80.32	191				
2.50 to < 10.00	36.24	1.46	7 593	112.18	106				
10.00 to < 100.00	41.64	1.23	2 350	197.91	114				
100.00 (default)	23.86	2.10	-	-	273				
Total	33.47	1.84	97 540	47.34	868	2 947			



			Corpo	orate				
	As at 30 June 2016							
PD scale	Original on-balance sheet gross exposure R million	Off-balance sheet exposures pre-CCF R million	Average CCF %	EAD post- CRM and post-CCF R million	Average PD %	Number of obligors		
0.00 to < 0.15	37 527	11 639	61.02	11 079	0.16	49		
0.15 to < 0.25	31 942	28 755	59.24	63 157	0.20	63		
0.25 to < 0.50	27 910	20 258	57.79	39 808	0.34	66		
0.50 to < 0.75	15 941	7 294	59.48	18 533	0.55	68		
0.75 to < 2.50	33 481	15 946	59.34	40 917	0.96	198		
2.50 to < 10.00	18 061	6 043	62.57	19 735	3.01	166		
10.00 to < 100.00	926	261	53.99	1 166	19.29	52		
100.00 (default)	1 364	84	81.00	1 379	100.00	9		
Total	167 152	90 280	59.41	195 774	1.52	671		

		Corporate							
			As at 30 J	lune 2016					
PD scale	Average LGD %	Average maturity Years	RWA R million	RWA density %	Expected loss R million	Provisions R million			
0.00 to < 0.15	31.99	2.18	1 768	15.96	17				
0.15 to < 0.25	35.34	1.75	19 404	30.72	34				
0.25 to < 0.50	31.93	1.73	16 582	41.65	39				
0.50 to < 0.75	32.49	1.50	8 982	48.46	34				
0.75 to < 2.50	32.75	1.91	26 294	64.26	129				
2.50 to < 10.00	34.52	1.96	20 027	101.48	225				
10.00 to < 100.00	24.55	0.94	2 305	197.68	102				
100.00 (default)	23.68	2.20	_	_	326				
Total	33.42	1.80	95 362	48.71	906	3 000			

CR6: AIRB - FIRSTRAND BANK (SA) CREDIT RISK EXPOSURES BY PORTFOLIO AND PD RANGE continued

		Specialised lending							
			As at 31 Dece	ember 2016					
PD scale	Original on-balance sheet gross exposure R million	Off-balance sheet exposures pre-CCF R million	Average CCF %	EAD post- CRM and post-CCF R million	Average PD %	Number of obligors			
0.00 to < 0.15	153	-	-	153	0.07	6			
0.15 to < 0.25	8 168	944	57.98	8 249	0.17	25			
0.25 to < 0.50	22 389	2 979	45.41	22 822	0.34	48			
0.50 to < 0.75	6 368	1 212	57.38	7 030	0.73	58			
0.75 to < 2.50	12 192	884	57.99	12 588	1.34	568			
2.50 to < 10.00	2 895	542	55.25	3 166	4.89	183			
10.00 to < 100.00	297	-	-	297	20.96	33			
100.00 (default)	1 043	-	-	1 043	100.00	35			
Total	53 505	6 561	51.94	55 348	2.84	956			

	Specialised lending As at 31 December 2016								
PD scale	Average LGD %	Average maturity Years	RWA R million	RWA density %	Expected loss R million	Provisions R million			
0.00 to < 0.15	21.74	0.95	32	21.02	-				
0.15 to < 0.25	18.80	2.76	1 639	19.87	3				
0.25 to < 0.50	17.84	2.11	5 246	22.99	14				
0.50 to < 0.75	24.09	2.02	3 127	44.48	12				
0.75 to < 2.50	24.55	0.82	10 330	82.07	30				
2.50 to < 10.00	31.26	2.18	5 934	187.40	40				
10.00 to < 100.00	25.54	0.97	447	150.64	7				
100.00 (default)	43.96	4.99	-	-	458				
Total	21.62	1.95	26 755	48.34	564	704			



	Specialised lending							
			As at 30 J	June 2016				
PD scale	Original on-balance sheet gross exposure R million	Off-balance sheet exposures pre-CCF R million	Average CCF %	EAD post- CRM and post-CCF R million	Average PD %	Number of obligors		
0.00 to < 0.15	10 068	966	62.27	10 582	0.06	711		
0.15 to < 0.25	7 226	1 184	_	7 291	0.21	7		
0.25 to < 0.50	18 913	4 358	60.00	19 371	0.34	26		
0.50 to < 0.75	2 035	175	_	2 042	0.70	10		
0.75 to < 2.50	7 782	659	60.05	8 156	0.90	43		
2.50 to < 10.00	4 247	2 084	60.00	5 403	3.37	46		
10.00 to < 100.00	156	-	_	156	10.24	5		
100.00 (default)	1 195	-	100.00	1 195	100.00	37		
Total	51 622	9 426	51.59	54 196	2.89	885		

	Specialised lending								
	As at 30 June 2016								
PD scale	Average LGD %	Average maturity Years	RWA R million	RWA density %	Expected loss R million	Provisions R million			
0.00 to < 0.15	20.13	3.37	4 635	43.80	21				
0.15 to < 0.25	18.00	2.72	1 562	21.42	3				
0.25 to < 0.50	15.99	2.51	4 300	22.20	13				
0.50 to < 0.75	23.06	2.70	885	43.34	4				
0.75 to < 2.50	23.99	2.08	3 906	47.89	18				
2.50 to < 10.00	32.99	2.38	5 413	100.19	62				
10.00 to < 100.00	32.00	2.20	227	145.51	5				
100.00 (default)	41.39	4.77	-	-	460				
Total	20.84	2.68	20 928	38.62	586	503			

CR6: AIRB - FIRSTRAND BANK (SA) CREDIT RISK EXPOSURES BY PORTFOLIO AND PD RANGE continued

		Sovereign							
			As at 31 Dec	ember 2016					
PD scale	Original on-balance sheet gross exposure R million	Off-balance sheet exposures pre-CCF R million	Average CCF %	EAD post- CRM and post-CCF R million	Average PD %	Number of obligors			
0.00 to < 0.15	97 296	-	-	85 960	0.01	3			
0.15 to < 0.25	1 258	259	12.37	1 401	0.17	26			
0.25 to < 0.50	188	13	13.37	195	0.33	43			
0.50 to < 0.75	210	173	6.66	303	0.62	33			
0.75 to < 2.50	417	175	27.31	509	1.81	59			
2.50 to < 10.00	174	66	9.29	208	4.70	5			
10.00 to < 100.00	4	5	1.72	7	32.13	5			
100.00 (default)	-	-	-	-	_	_			
Total	99 547	691	14.38	88 583	0.04	174			

	Sovereign								
	As at 31 December 2016								
PD scale	Average LGD %	Average maturity Years	RWA R million	RWA density %	Expected loss R million	Provisions R million			
0.00 to < 0.15	29.34	2.56	4 856	5.65	3				
0.15 to < 0.25	29.33	3.16	433	30.92	1				
0.25 to < 0.50	25.00	4.86	94	48.31	-				
0.50 to < 0.75	27.74	3.77	180	59.56	1				
0.75 to < 2.50	23.12	3.01	330	64.74	2				
2.50 to < 10.00	38.61	1.19	248	119.16	4				
10.00 to < 100.00	25.39	1.83	9	-	1				
100.00 (default)	-	-	-	-	-				
Total	29.31	2.58	6 150	6.94	12	5			



			Sove	reign				
		As at 30 June 2016						
PD scale	Original on-balance sheet gross exposure R million	Off-balance sheet exposures pre-CCF R million	Average CCF %	EAD post- CRM and post-CCF R million	Average PD %	Number of obligors		
0.00 to < 0.15	82 696	_	_	68 676	0.01	4		
0.15 to < 0.25	626	60	91.78	767	0.18	25		
0.25 to < 0.50	189	_	71.43	196	0.34	5		
0.50 to < 0.75	68	59	78.32	109	0.56	12		
0.75 to < 2.50	338	129	30.51	413	0.99	42		
2.50 to < 10.00	217	37	88.29	245	5.79	63		
10.00 to < 100.00	_	_	_	_	_	_		
100.00 (default)	-	_	_	_	_	_		
Total	84 134	285	60.81	70 406	0.04	151		

			Sove	reign		
			As at 30 J	lune 2016		
PD scale	Average LGD %	Average maturity Years	RWA R million	RWA density %	Expected loss R million	Provisions R million*
0.00 to < 0.15	29.00	1.67	2 651	3.86	2	
0.15 to < 0.25	21.22	0.22	238	31.03	-	
0.25 to < 0.50	25.06	4.70	97	49.49	_	
0.50 to < 0.75	22.21	1.72	53	48.62	_	
0.75 to < 2.50	22.74	2.19	259	62.71	1	
2.50 to < 10.00	40.06	1.10	319	130.20	5	
10.00 to < 100.00	-	-	_	-	-	
100.00 (default)	-	-	_	-	-	
Total	28.90	1.66	3 617	5.14	8	_

^{*} There were no provisions for sovereign during the period.

CR6: AIRB - FIRSTRAND BANK (SA) CREDIT RISK EXPOSURES BY PORTFOLIO AND PD RANGE continued

			Banks and secu	ırities firms		
			As at 31 Decer	nber 2016		
PD scale	Original on-balance sheet gross exposure R million	Off-balance sheet exposures pre-CCF R million	Average CCF %	EAD post- CRM and post-CCF R million	Average PD %	Number of obligors
0.00 to < 0.15	28 163	9 802	41.84	39 349	0.03	82
0.15 to < 0.25	33 211	7 429	53.61	25 321	0.16	63
0.25 to < 0.50	16 700	3 029	53.46	17 634	0.37	61
0.50 to < 0.75	966	77	53.23	396	0.74	25
0.75 to < 2.50	16 929	648	40.48	2 259	2.13	73
2.50 to < 10.00	1 935	781	39.11	1 859	4.92	52
10.00 to < 100.00	870	148	48.99	98	15.93	32
100.00 (default)	_	-	-	-	-	-
Total	98 774	21 914	47.39	86 916	0.32	388

	Banks and securities firms							
			As at 31 Dec	ember 2016				
PD scale	Average LGD %	Average maturity Years	RWA R million	RWA density %	Expected loss R million	Provisions R million*		
0.00 to < 0.15	29.23	1.47	2 782	7.07	3			
0.15 to < 0.25	29.17	0.88	5 311	20.97	11			
0.25 to < 0.50	35.56	0.92	7 712	43.73	22			
0.50 to < 0.75	40.81	1.99	358	90.43	1			
0.75 to < 2.50	57.51	0.91	3 334	147.57	30			
2.50 to < 10.00	36.02	0.68	1 881	101.22	32			
10.00 to < 100.00	37.36	0.91	160	163.59	8			
100.00 (default)	-	-	-	-	-			
Total	31.44	1.16	21 538	24.78	107	-		

^{*} There were no provisions for banks and securities firms during the period.



			Banks and se	ecurities firms		
			As at 30 c	June 2016		
PD scale	Original on-balance sheet gross exposure R million	Off-balance sheet exposures pre-CCF R million	Average CCF %	EAD post- CRM and post-CCF R million	Average PD %	Number of obligors
0.00 to < 0.15	63 998	10 815	62.97	54 706	0.12	103
0.15 to < 0.25	3 723	1 497	99.05	3 269	0.19	32
0.25 to < 0.50	11 583	2 343	52.00	7 603	0.34	35
0.50 to < 0.75	5 073	229	41.00	5 353	0.56	23
0.75 to < 2.50	15 430	144	47.00	708	0.94	50
2.50 to < 10.00	28 390	2 130	43.15	5 697	3.12	85
10.00 to < 100.00	27	244	40.00	105	27.74	29
100.00 (default)	41	_	_	41	100.00	1
Total	128 265	17 402	61.43	77 482	0.49	358

	Banks and securities firms								
	As at 30 June 2016								
PD scale	Average LGD %	Average maturity Years	RWA R million	RWA density %	Expected loss R million	Provisions R million			
0.00 to < 0.15	26.59	1.14	5 300	9.69	10				
0.15 to < 0.25	37.62	1.77	787	24.07	2				
0.25 to < 0.50	36.84	0.59	2 826	37.17	10				
0.50 to < 0.75	42.67	1.09	2 818	52.64	8				
0.75 to < 2.50	44.64	1.40	705	99.58	3				
2.50 to < 10.00	41.45	1.24	3 982	69.90	43				
10.00 to < 100.00	45.00	1.21	201	191.43	11				
100.00 (default)	50.00	1.00	_	_	20				
Total	30.47	1.12	16 619	21.45	107	10			

CR6: AIRB - FIRSTRAND BANK (SA) CREDIT RISK EXPOSURES BY PORTFOLIO AND PD RANGE continued

			SME co	orporate		
			As at 31 Dec	cember 2016		
PD scale	Original on-balance sheet gross exposure R million	Off-balance sheet exposures pre-CCF R million	Average CCF %	EAD post- CRM and post-CCF R million	Average PD %	Number of obligors
0.00 to < 0.15	_	2	44.48	1	0.09	38
0.15 to < 0.25	8 895	428	5.91	9 109	0.37	2 152
0.25 to < 0.50	6 725	5 533	14.11	8 956	0.48	4 156
0.50 to < 0.75	4 605	3 004	16.41	5 963	0.66	1 564
0.75 to < 2.50	30 499	9 191	9.41	35 303	1.80	16 960
2.50 to < 10.00	12 705	3 505	25.71	14 746	5.38	6 744
10.00 to < 100.00	1 706	560	11.14	2 007	22.43	790
100.00 (default)	780	58	1.84	808	100.00	2 426
Total	65 915	22 281	14.05	76 893	3.65	34 830

	SME corporate								
			As at 31 Dec	ember 2016					
PD scale	Average LGD %	Average maturity Years	RWA R million	RWA density %	Expected loss R million	Provisions R million			
0.00 to < 0.15	72.85	1.63	-	29.59	-				
0.15 to < 0.25	39.52	2.22	2 116	23.23	4				
0.25 to < 0.50	29.71	2.35	3 299	36.83	11				
0.50 to < 0.75	26.46	2.45	2 298	38.54	9				
0.75 to < 2.50	29.40	2.39	16 325	46.24	116				
2.50 to < 10.00	27.76	2.42	9 598	65.09	151				
10.00 to < 100.00	30.25	2.19	2 576	128.32	81				
100.00 (default)	53.84	2.76	235	29.03	561				
Total	30.37	2.37	36 447	47.40	933	1 186			



		SME corporate							
		As at 30 June 2016							
PD scale	Original on-balance sheet gross exposure R million	Off-balance sheet exposures pre-CCF R million	Average CCF %	EAD post- CRM and post-CCF R million	Average PD %	Number of obligors			
0.00 to < 0.15	6 354	164	61.29	6 442	0.08	52			
0.15 to < 0.25	1 963	377	6.07	2 151	0.41	794			
0.25 to < 0.50	7 349	3 405	61.17	8 809	0.51	8 632			
0.50 to < 0.75	7 986	4 016	58.16	9 779	0.66	6 176			
0.75 to < 2.50	31 007	10 512	65.85	36 386	1.53	21 816			
2.50 to < 10.00	11 452	2 598	67.09	12 634	5.21	11 962			
10.00 to < 100.00	1 880	570	59.90	2 175	25.59	1 276			
100.00 (default)	762	1	_	762	100.00	2 478			
Total	68 753	21 643	62.60	79 138	3.36	53 186			

	SME corporate								
	As at 30 June 2016								
PD scale	Average LGD %	Average maturity Years	RWA R million	RWA density %	Expected loss R million	Provisions R million			
0.00 to < 0.15	26.86	1.10	897	13.92	1				
0.15 to < 0.25	53.25	3.61	690	32.08	1				
0.25 to < 0.50	34.13	2.09	3 179	36.09	11				
0.50 to < 0.75	30.90	1.73	3 646	37.28	16				
0.75 to < 2.50	29.74	1.99	17 158	47.16	103				
2.50 to < 10.00	38.80	2.00	8 843	69.99	137				
10.00 to < 100.00	33.36	1.61	2 517	115.72	142				
100.00 (default)	46.92	2.17	212	27.82	543				
Total	32.49	1.93	37 142	46.93	954	1 058			

CR6: AIRB - FIRSTRAND BANK (SA) CREDIT RISK EXPOSURES BY PORTFOLIO AND PD RANGE continued

			SME	retail		
			As at 31 Dec	cember 2016		
PD scale	Original on-balance sheet gross exposure R million	Off-balance sheet exposures pre-CCF R million	Average CCF %	EAD post- CRM and post-CCF R million	Average PD %	Number of obligors
0.00 to < 0.15	465	1 114	36.12	1 385	0.08	6 763
0.15 to < 0.25	505	1 107	22.45	1 469	0.25	14 849
0.25 to < 0.50	2 907	3 924	23.69	5 412	0.34	46 568
0.50 to < 0.75	1 979	1 996	20.76	3 648	0.63	80 104
0.75 to < 2.50	22 682	5 695	7.38	27 366	2.09	937 444
2.50 to < 10.00	15 517	921	49.17	16 032	6.60	80 132
10.00 to < 100.00	2 650	87	54.58	2 689	41.71	16 942
100.00 (default)	1 952	2	3.56	1 928	100.00	22 395
Total	48 657	14 846	19.64	59 929	7.89	1 205 197

	SME retail								
			As at 31 Dec	ember 2016					
PD scale	Average LGD %	Average maturity Years	RWA R million	RWA density %	Expected loss R million	Provisions R million			
0.00 to < 0.15	38.90	0.02	124	8.96	-				
0.15 to < 0.25	40.23	0.06	291	-	1				
0.25 to < 0.50	31.49	0.01	1 018	18.82	6				
0.50 to < 0.75	42.98	-	1 362	37.34	10				
0.75 to < 2.50	40.68	0.88	11 624	42.48	151				
2.50 to < 10.00	40.49	1.70	7 422	46.30	187				
10.00 to < 100.00	43.18	1.70	2 150	79.96	285				
100.00 (default)	57.42	0.62	1 913	99.26	1 117				
Total	40.54	0.95	25 904	43.23	1 757	1 045			



	SME retail							
			As at 30 Jur	ne 2016				
PD scale	Original on-balance sheet gross exposure R million	Off-balance sheet exposures pre-CCF R million	Average CCF %	EAD post- CRM and post-CCF R million	Average PD %	Number of obligors		
0.00 to < 0.15	488	979	34.30	1 302	0.08	7 206		
0.15 to < 0.25	537	1 133	20.98	1 493	0.25	17 023		
0.25 to < 0.50	1 980	3 153	24.25	4 031	0.31	36 923		
0.50 to < 0.75	1 590	1 737	18.49	3 128	0.63	88 361		
0.75 to < 2.50	19 969	4 330	7.54	23 815	1.59	882 035		
2.50 to < 10.00	14 253	662	45.40	14 649	3.66	77 819		
10.00 to < 100.00	2 586	64	53.00	2 618	25.99	16 554		
100.00 (default)	1 688	1	7.50	1 663	100.00	10 779		
Total	43 091	12 059	19.24	52 699	6.25	1 136 700		

	SME retail								
			As at 30 J	June 2016					
PD scale	Average LGD %	Average maturity Years	RWA R million	RWA density %	Expected loss R million	Provisions R million			
0.00 to < 0.15	38.81	0.01	116	8.91	-				
0.15 to < 0.25	40.91	_	300	20.09	1				
0.25 to < 0.50	33.62	0.05	775	19.23	4				
0.50 to < 0.75	47.40	0.03	1 283	41.02	9				
0.75 to < 2.50	42.93	0.96	10 649	44.72	139				
2.50 to < 10.00	42.32	1.84	7 049	48.12	177				
10.00 to < 100.00	42.62	1.55	2 090	79.83	266				
100.00 (default)	58.76	0.90	1 769	106.37	666				
Total	42.64	1.06	24 031	45.60	1 262	757			

CR6: AIRB - FIRSTRAND BANK (SA) CREDIT RISK EXPOSURES BY PORTFOLIO AND PD RANGE continued

			Retail m	ortgages					
		As at 31 December 2016							
PD scale	Original on-balance sheet gross exposure R million	Off-balance sheet exposures pre-CCF R million	Average CCF %	EAD post- CRM and post-CCF R million	Average PD %	Number of obligors			
0.00 to < 0.15	675	581	103.72	1 277	0.03	1 776			
0.15 to < 0.25	90	70	44.37	121	0.23	240			
0.25 to < 0.50	16 194	15 910	49.60	24 086	0.39	32 174			
0.50 to < 0.75	14 279	1 009	67.26	14 958	0.66	30 441			
0.75 to < 2.50	108 102	22 081	61.71	121 728	1.54	191 096			
2.50 to < 10.00	32 396	4 138	8.66	32 755	4.70	52 737			
10.00 to < 100.00	7 591	2 877	4.40	7 717	30.46	37 532			
100.00 (default)	3 825	-	_	3 825	100.00	10 773			
Total	183 152	46 666	49.96	206 467	4.74	356 769			

	Retail mortgages*								
			As at 31 Dec	ember 2016					
PD scale	Average LGD %	Average maturity Years	RWA R million	RWA density %	Expected loss R million	Provisions R million			
0.00 to < 0.15	11.59	-	16	1.29	-				
0.15 to < 0.25	10.30	-	6	4.81	-				
0.25 to < 0.50	10.87	-	1 824	7.57	10				
0.50 to < 0.75	13.22	-	1 979	13.23	13				
0.75 to < 2.50	13.89	-	29 483	24.22	264				
2.50 to < 10.00	15.61	-	16 984	51.85	241				
10.00 to < 100.00	15.13	-	6 173	79.99	365				
100.00 (default)	20.88	-	451	11.78	971				
Total	13.92	-	56 916	27.57	1 864	1 838			

^{*} Average maturity not applied for the retail mortgages RWA calculation.



			Retail m	ortgages			
	As at 30 June 2016						
PD scale	Original on-balance sheet gross exposure R million	Off-balance sheet exposures pre-CCF R million	Average CCF %	EAD post- CRM and post-CCF R million	Average PD %	Number of obligors	
0.00 to < 0.15	666	570	103.98	1 259	0.04	1 751	
0.15 to < 0.25	95	78	45.55	130	0.22	274	
0.25 to < 0.50	16 655	16 040	48.64	24 457	0.39	34 328	
0.50 to < 0.75	15 291	1 270	72.13	16 207	0.64	32 415	
0.75 to < 2.50	105 227	20 490	62.26	117 986	1.55	187 594	
2.50 to < 10.00	29 806	3 106	17.62	30 353	4.69	52 959	
10.00 to < 100.00	9 432	2 643	6.16	9 595	28.86	39 010	
100.00 (default)	3 913	-	_	3 913	100.00	11 068	
Total	181 085	44 197	51.62	203 900	4.97	359 399	

			Retail mo	ortgages*		
			As at 30 c	June 2016		
PD scale	Average LGD %	Average maturity Years	RWA R million	RWA density %	Expected loss R million	Provisions R million
0.00 to < 0.15	11.59	-	16	1.27	_	
0.15 to < 0.25	10.18	_	6	4.62	_	
0.25 to < 0.50	10.83	_	1 828	7.47	10	
0.50 to < 0.75	12.62	_	2 007	12.38	13	
0.75 to < 2.50	13.72	_	28 422	24.09	254	
2.50 to < 10.00	15.69	-	15 784	52.00	224	
10.00 to < 100.00	15.11	-	7 770	80.98	425	
100.00 (default)	20.56	-	478	12.22	1 002	
Total	13.76	_	56 311	27.62	1 928	1 452

^{*} Average maturity not applied for the retail mortgages RWA calculation.

CR6: AIRB - FIRSTRAND BANK (SA) CREDIT RISK EXPOSURES BY PORTFOLIO AND PD RANGE continued

			Retail revo	lving					
		As at 31 December 2016							
PD scale	Original on-balance sheet gross exposure R million	Off-balance sheet exposures pre-CCF R million	Average CCF %	EAD post- CRM and post-CCF R million	Average PD %	Number of obligors			
0.00 to < 0.15	855	6 120	40.04	3 305	0.08	137 153			
0.15 to < 0.25	759	2 936	40.45	1 947	0.20	86 774			
0.25 to < 0.50	1 993	5 233	39.78	4 074	0.36	171 232			
0.50 to < 0.75	2 344	5 904	60.38	5 909	0.62	363 256			
0.75 to < 2.50	10 969	11 394	60.20	17 828	1.50	1 041 962			
2.50 to < 10.00	9 451	4 359	71.56	12 571	4.61	1 088 987			
10.00 to < 100.00	3 198	533	81.94	3 634	27.94	713 894			
100.00 (default)	957	-	-	957	100.00	966 432			
Total	30 526	36 479	54.00	50 225	5.73	4 569 690			

	Retail revolving*							
			As at 31 Dec	ember 2016				
PD scale	Average LGD %	Average maturity Years	RWA R million	RWA density %	Expected loss R million	Provisions R million		
0.00 to < 0.15	65.61	-	111	3.35	2			
0.15 to < 0.25	65.69	-	146	7.48	3			
0.25 to < 0.50	65.80	-	487	11.96	10			
0.50 to < 0.75	66.60	-	1 099	18.60	24			
0.75 to < 2.50	66.31	-	6 412	35.97	177			
2.50 to < 10.00	66.21	-	9 889	78.67	384			
10.00 to < 100.00	66.77	-	6 285	172.94	681			
100.00 (default)	66.58	-	15	1.60	700			
Total	66.25	-	24 444	48.67	1 981	1 980		

^{*} Average maturity not applied for the retail revolving RWA calculation.



			Retail revo	olving		
			As at 30 Jur	ne 2016		
PD scale	Original on-balance sheet gross exposure R million	Off-balance sheet exposures pre-CCF R million	Average CCF %	EAD post- CRM and post-CCF R million	Average PD %	Number of obligors
0.00 to < 0.15	755	5 954	39.68	3 117	0.08	130 888
0.15 to < 0.25	688	2 844	40.20	1 832	0.20	83 633
0.25 to < 0.50	1 825	5 112	39.38	3 839	0.36	164 308
0.50 to < 0.75	2 216	5 666	60.04	5 618	0.62	373 832
0.75 to < 2.50	10 936	10 863	58.76	17 320	1.50	1 047 722
2.50 to < 10.00	10 274	4 003	70.67	13 103	4.64	1 174 487
10.00 to < 100.00	3 365	422	85.35	3 725	28.26	780 646
100.00 (default)	967	-	-	967	100.00	935 100
Total	31 026	34 864	53.04	49 521	5.94	4 690 616

		Retail revolving*								
			As at 30 c	June 2016						
PD scale	Average LGD %	Average maturity Years	RWA R million	RWA density %	Expected loss R million	Provisions R million				
0.00 to < 0.15	65.61	_	105	3.37	2					
0.15 to < 0.25	65.69	-	137	7.48	2					
0.25 to < 0.50	65.80	-	460	11.98	9					
0.50 to < 0.75	66.59	_	1 047	18.64	23					
0.75 to < 2.50	66.30	_	6 250	36.09	172					
2.50 to < 10.00	66.18	_	10 341	78.92	402					
10.00 to < 100.00	66.63	_	6 349	170.44	703					
100.00 (default)	66.63	_	20	2.07	705					
Total	66.23	_	24 709	49.90	2 018	1 565				

^{*} Average maturity not applied for the retail revolving RWA calculation.

CR6: AIRB - FIRSTRAND BANK (SA) CREDIT RISK EXPOSURES BY PORTFOLIO AND PD RANGE continued

			Other	retail		
			As at 31 Dec	cember 2016		
PD scale	Original on-balance sheet gross exposure R million	Off-balance sheet exposures pre-CCF R million	Average CCF %	EAD post- CRM and post-CCF R million	Average PD %	Number of obligors
0.00 to < 0.15	20	8	5.72	20	0.03	162
0.15 to < 0.25	2	4	27.83	3	0.23	619
0.25 to < 0.50	1 962	157	56.37	2 050	0.43	21 391
0.50 to < 0.75	2 091	399	57.37	2 320	0.60	18 461
0.75 to < 2.50	42 994	377	74.24	43 274	1.67	412 755
2.50 to < 10.00	40 498	360	120.27	40 931	4.83	598 815
10.00 to < 100.00	13 209	24	460.49	13 321	30.77	333 659
100.00 (default)	6 489	-	_	6 489	100.00	120 228
Total	107 265	1 329	86.09	108 408	12.28	1 506 090

	Other retail*								
			As at 31 Dec	ember 2016					
PD scale	Average LGD %	Average maturity Years	RWA R million	RWA density %	Expected loss R million	Provisions R million			
0.00 to < 0.15	20.14	-	_	2.38	-				
0.15 to < 0.25	75.87	-	1	35.72	-				
0.25 to < 0.50	26.89	-	387	18.86	2				
0.50 to < 0.75	29.90	-	588	25.34	4				
0.75 to < 2.50	26.68	-	14 823	34.25	195				
2.50 to < 10.00	44.03	-	28 199	68.89	917				
10.00 to < 100.00	47.75	-	14 320	107.50	1 917				
100.00 (default)	48.22	-	10 742	165.54	2 396				
Total	37.18	-	69 060	63.70	5 431	3 582			

^{*} Average maturity not applied for other retail RWA calculation.



	Other retail										
	As at 30 June 2016										
PD scale	Original on-balance sheet gross exposure R million	Off-balance sheet exposures pre-CCF R million	Average CCF %	EAD post- CRM and post-CCF R million	Average PD %	Number of obligors					
0.00 to < 0.15	29	2	0.09	29	0.05	217					
0.15 to < 0.25	26	1	50.35	26	0.17	634					
0.25 to < 0.50	2 099	152	53.25	2 179	0.43	21 451					
0.50 to < 0.75	2 041	464	59.77	2 319	0.59	18 284					
0.75 to < 2.50	47 320	308	76.26	47 555	1.66	431 131					
2.50 to < 10.00	42 273	422	99.67	42 694	4.87	601 500					
10.00 to < 100.00	14 414	10	2 057.02	14 628	30.75	366 794					
100.00 (default)	6 203	-	-	6 203	100.00	114 251					
Total	114 405	1 359	89.77	115 633	11.76	1 554 262					

	Other retail*											
	As at 30 June 2016											
PD scale	Average LGD %	Average maturity Years	RWA R million	RWA density %	Expected loss R million	Provisions R million						
0.00 to < 0.15	21.13	_	1	3.45	-							
0.15 to < 0.25	28.32	_	3	11.54	-							
0.25 to < 0.50	26.50	-	405	18.59	2							
0.50 to < 0.75	31.10	_	605	26.09	4							
0.75 to < 2.50	26.70	_	16 276	34.23	214							
2.50 to < 10.00	42.51	-	28 452	66.64	936							
10.00 to < 100.00	48.37	-	16 101	110.07	2 134							
100.00 (default)	48.34	-	9 725	156.78	2 325							
Total	36.52	_	71 568	61.89	5 615	4 812						

^{*} Average maturity not applied for other retail RWA calculation.

Effect on RWA of credit derivatives used as credit risk mitigation techniques

The following table illustrates the effect of credit derivatives on the capital requirement calculation under the AIRB approach. As the group does not apply the foundation internal ratings-based (FIRB) approach, the rows related to this approach have been excluded from CR7. Pre-credit derivatives RWA (before taking credit derivatives' mitigation effect into account) has been selected to assess the impact of credit derivatives on RWA, irrespective of how the credit risk mitigation technique feeds into the RWA calculation.

CR7: AIRB - EFFECT ON RWA OF CREDIT DERIVATIVES USED AS CREDIT RISK MITIGATION TECHNIQUES*

		Pre-credit der	Pre-credit derivatives RWA		
R n	nillion	As at 31 December 2016	As at 30 June 2016		
2.	Sovereign	6 150	3 617		
4.	Banks and securities firms	21 538	16 619		
6.	Corporate	97 540	95 362		
8.	Specialised lending	26 755	20 928		
	SME corporate	36 447	37 142		
9.	Retail revolving	24 444	24 709		
10.	Retail mortgages	56 916	56 311		
11.	SME retail	25 904	24 031		
12.	Other retail	69 060	71 568		
14.	Equity	-	_		
16.	Purchased receivables	-	_		
17.	Total	364 754	350 287		

^{*} No credit derivatives were applied as credit risk mitigation during the period. Foundation internal ratings-based approach is not applied by the group.



RWA flow statement of credit risk exposure under AIRB

The calculation of credit RWA for FRB's domestic operations is based on internally-developed, quantitative models in line with the AIRB approach. The three credit risk measures, namely PD, EAD and LGD, are used along with prescribed correlations (dependent on the asset class) and estimates of maturity, where applicable, to derive credit RWA. The quantitative models also adhere to the AIRB requirements related to annual validation.

For the remaining entities, credit RWA is based on the standardised approach where regulatory risk weights are prescribed per asset class. Even though the remaining entities do not have regulatory approval to use the AIRB approach, internally-developed quantitative models are used for internal assessment of credit risk.

The following table presents a flow statement explaining variations in the credit RWA determined under the AIRB approach.

CR8: RWA FLOW STATEMENT OF CREDIT RISK EXPOSURES UNDER AIRB

R million	RWA amounts
1. RWA at 30 September 2016	353 629
2. Asset size	15 769
3. Asset quality	(519)
4. Model updates	(5 354)
5. Methodology and policy	_
6. Acquisitions and disposals	1 242
7. Foreign exchange movements	_
8. Other	(13)
9. RWA at 31 December 2016	364 754

CREDIT RISK UNDER STANDARDISED APPROACH

For regulatory capital purposes, the group uses the AIRB approach for FirstRand Bank SA exposures, and the standardised approach for the group's other legal entities and the bank's offshore branches. Due to the relatively small size of the subsidiaries and the scarcity of relevant data, the group plans to continue using the standardised approach for the foreseeable future for the majority of these portfolios.

For portfolios using the standardised approach, only S&P ratings are used. As external ratings are not available for all jurisdictions and for certain parts of the portfolio, the group uses its internally developed mapping between FR grades and S&P grades (refer to the table *mapping of FirstRand (FR) grades to rating agency scales* on page 64).

For cases where the bank invests in particular debt issues, the risk weight of claims is based on these assessments. If investment is not in a specific assessed issue then the following factors apply when determining the applicable assessments in accordance with Basel prescriptions:

- borrower's issuer assessment;
- borrower's specific assessment on issued debt;
- and ranking of the unassessed claim; and
- entire amount of credit risk exposure the bank has.

The following table provides the credit risk exposures, credit risk mitigation effects and RWA for standardised approach exposures per asset class. RWA density is the ratio of RWA to exposures post-CCF and CRM.

CR4: STANDARDISED APPROACH-CREDIT RISK EXPOSURE AND CREDIT RISK MITIGATION EFFECTS

		As at 31 December 2016								
		Exposures and	before CCF CRM		post-CCF CRM	RWA and RWA density				
R million	n	On-balance sheet amount	Off-balance sheet amount	On-balance sheet amount	Off-balance sheet amount	RWA amount	RWA density			
Asse	et classes									
1. Sove	ereigns and their central banks	19 461	128	18 201	127	9 662	52.72			
2. Non-	-central government public sector entities	3 731	2 191	2 571	1 194	1 769	46.98			
3. Multi	ilateral development banks	1	21	5	17	2	11.43			
4. Bank	KS .	14 084	298	14 087	506	2 592	17.76			
5. Secu	urities firms	282	_	282	- 1	141	50.00			
6. Corp	porates	19 277	8 588	21 793	3 913	22 808	88.73			
7. Regu	ulatory retail portfolios	29 422	10 590	32 125	4 684	25 686	69.78			
8. Secu	ured by residential property	19 121	2 110	19 120	1 152	7 759	38.28			
9. Secu	ured by commercial real estate	5 731	525	5 726	469	6 195	100.00			
10. Equit	ty	_	_	_	_	-	_			
11. Past	due advances	2 512	151	2 388	30	2 230	92.22			
12. High	er-risk categories	-	-	_	- 1	-	_			
13. Othe	er assets	28 160	-	28 160	_	18 459	65.55			
14. Tota	ıl	141 782	24 602	144 458	12 092	97 303	62.16			

	As at 30 June 2016							
		before CCF CRM		post-CCF CRM	RWA and RWA density			
R million	On-balance sheet amount	Off-balance sheet amount	On-balance sheet amount	Off-balance sheet amount	RWA amount	RWA density %		
Asset classes								
Sovereigns and their central banks	18 582	502	17 705	500	13 759	75.58		
2. Non-central government public sector entities		1 396	2 510	867	1 555	46.05		
3. Multilateral development banks	1	21	5	_	2	40.00		
4. Banks	13 366	756	13 358	726	2 594	18.42		
5. Securities firms	319	_	319	_	159	49.84		
6. Corporates	20 270	11 546	22 543	5 516	24 623	87.75		
7. Regulatory retail portfolios	23 885	9 848	26 418	4 314	21 333	69.42		
8. Secured by residential property	17 600	2 189	17 600	1 360	7 137	37.64		
9. Secured by commercial real estate	5 388	551	5 382	503	5 938	100.90		
10. Equity	_	_	_	_	_	_		
11. Past due advances	1 963	131	1 414	30	1 188	82.27		
12. Higher-risk categories	_	_	-	_	_	_		
13. Other assets	34 728	_	32 995	_	23 272	70.53		
14. Total	140 164	26 940	140 249	13 816	101 560	65.92		



The following tables provide a breakdown of exposures rated through the standardised approach by asset class to show the effect of credit risk mitigation. Further breakdown by risk weight per asset class is shown where the risk weights used are those prescribed in the Regulations and will differ primarily by asset class as well as credit rating.

CR5: STANDARDISED APPROACH – EXPOSURES BY ASSET CLASSES AND RISK WEIGHTS

		As at 31 December 2016									
						Risk weight					Total
R n	nillion	0%	10%	20%	35%	50%	75%	100%	150%	Others	credit exposures amount (post- CCF and post- CRM)
	Asset classes										
1.	Sovereigns and their central banks	1 335	_	5 892	_	5 866	_	4 477	758	_	18 328
2.	Non-central government public sector entities	_	_	_	_	3 765	_	_	_	_	3 765
3.	Multilateral development banks	_	_	_	_	22	_	_	_	_	22
4.	Banks	5 898	_	1 593	_	6 602	–	474	26		14 593
5.	Securities firms	-	-	-	_	282	–	-	_	_	282
6.	Corporates	-	-	952	-	2 548	_	20 990	619	597	25 706
7.	Regulatory retail portfolios	-	-	-	-	_	35 667	1 142	_	_	36 809
8.	Secured by residential property	-	_	-	18 918	_	864	490	_	_	20 272
9.	Secured by commercial real estate	_	_	-	-	_	_	6 195	-	-	6 195
10.	Equity	-	_	-	-	_	–	-	_	_	_
11.	Past due advances	-	-	-	-	931	_	564	923	_	2 418
12.	Higher-risk categories	-	_	_	_	_	–	_	_	-	<u> </u>
13.	Other assets	2 079	_	2 751	_	282	-	2 798	_	20 250	28 160
14.	Total	9 312	_	11 188	18 918	20 298	36 531	37 130	2 326	20 847	156 550

CR5: STANDARDISED APPROACH – EXPOSURES BY ASSET CLASSES AND RISK WEIGHTS continued

			As at 30 June 2016								
						Risk weight					Total
R n	nillion	0%	10%	20%	35%	50%	75%	100%	150%	Others	credit exposures amount (post- CCF and post- CRM)
	Asset classes										
1.	Sovereigns and their central banks	649	_	4 466	_	777	_	11 486	827	_	18 205
2.	Non-central government public sector entities	_	_	_	_	3 377	_	_	_	_	3 377
3.	Multilateral development banks	_	-	_	_	5	_	_	_	_	5
4.	Banks	7 889	_	2 219	_	2 772	_	1 204	_	_	14 084
5.	Securities firms	_	-	-	_	319	_	-	_	-	319
6.	Corporates	_	_	640	_	3 642	_	21 291	895	1 591	28 059
7.	Regulatory retail portfolios	_	_	_	_	_	29 397	1 335	_	_	30 732
8.	Secured by residential property	_	_	_	17 979	86	644	251	_	_	18 960
9.	Secured by commercial real estate	_	_	_	_	_	_	5 780	105	_	5 885
10.	Equity	_	_	_	_	_	_	_	—	_	_
11.	Past due advances	_	_	_	<u> </u>	651	_	287	506	_	1 444
12.	Higher-risk categories	_	_	_	_	_	_	-	_	_	-
13.	Other assets	1 530	-	3 835	_	328	_	2 978	-	24 324	32 995
14.	Total	10 068	_	11 160	17 979	11 957	30 041	44 612	2 333	25 915	154 065



Specialised lending exposures under slotting

The following table provides information relating to specialised lending exposures that are rated through the slotting approach. The exposures are split between regulatory asset classes.

CR10: AIRB SPECIALISED LENDING

		As at 31 December 2016 Other than high-volatility commercial real estate*									
R million			Off-		Е	xposure amour					
Regulatory categories	Remaining maturity	On-balance sheet amount	balance sheet amount	Risk weight	Project finance	Income- producing real estate	Total	RWA	Expected losses		
Strong	Less than 2.5 years	616	54	50%	-	670	670	996	29		
	Equal to or more than 2.5 years	11 979	_	70%	11 979	_	11 979	9 174	53		
Good	Less than 2.5 years	- 1	–	70%	–	_	_	_	–		
***************************************	Equal to or more than 2.5 years	4 979	601	90%	5 580	_	5 580	5 323	45		
Satisfactory		92	297	115%	389	_	389	371	3		
Weak		194	-	250%	-	194	194	514	16		
Default		-	-	-	-	-	-	-	-		
Total		17 860	952		17 948	864	18 812	16 378	146		

^{*} There were no high-volatility commercial real estate exposures during the period. For specialised lending exposures other than high-volatility commercial real estate, there were no exposures to object finance or commodities asset classes during the period.

As at 30 June 2016									
	Other than high-volatility commercial real estate*								
R million			Off-		E:	xposure amou			
Regulatory categories	Remaining maturity	On-balance sheet amount	balance sheet amount	Risk weight	Project finance	Income- producing real estate	Total	RWA	Expected losses
Strong	Less than 2.5 years	161	_	50%	-	161	161	271	2
	Equal to or more than 2.5 years	10 901	17	70%	10 164	755	10 919	8 751	46
Good	Less than 2.5 years	-	_	70%	_	_	_	_	_
	Equal to or more than 2.5 years	6 069	1 016	90%	7 085	_	7 085	6 758	57
Satisfactory		99	_	115%	_	100	100	121	2
Weak		8	_	250%	_	8	8	20	-
Default		-	_	-	-	_	_	_	_
Total		17 238	1 033		17 249	1 024	18 273	15 921	107

^{*} There were no high-volatility commercial real estate exposures during the period. For specialised lending exposures other than high-volatility commercial real estate, there were no exposures to object finance or commodities asset classes during the period.

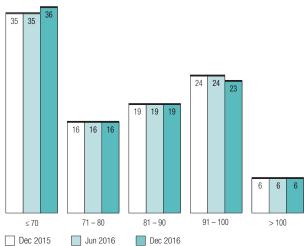
SELECTED RISK ANALYSES

The graphs below provide loan balance-to-value ratios and age distributions of residential mortgages.

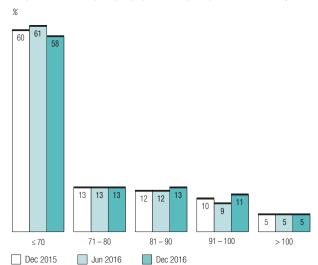
Loan-to-value ratios for new business are an important consideration in the credit origination process. The group, however, places more emphasis on counterparty creditworthiness as opposed to relying only on the underlying security.

RESIDENTIAL MORTGAGES BALANCE-TO-ORIGINAL VALUE

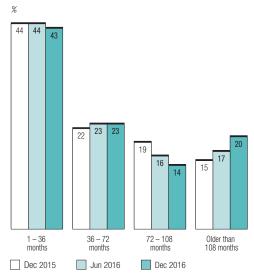
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RESIDENTIAL MORTGAGES BALANCE-TO-MARKET VALUE



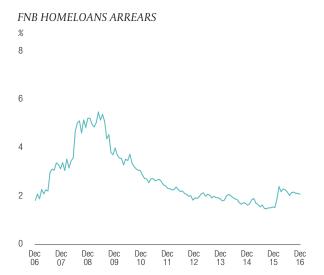
RESIDENTIAL MORTGAGES AGE DISTRIBUTION

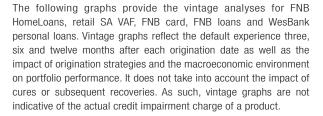




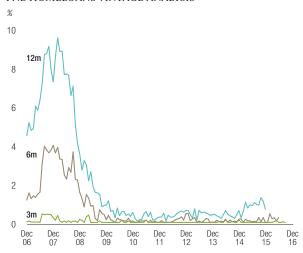
The following graph shows arrears in the FNB HomeLoans portfolio. It includes arrears where more than one full payment is in arrears expressed as a percentage of total advances. The increase over the previous 12 month period reflects the reclassification of restructured debt review as explained in the *Analysis of financial results* booklet.

Vintages in FNB HomeLoans have increased marginally from previous record low levels. The increase is attributed to the interest rate hiking cycle and resultant impact on consumers. Coupled with job losses and other challenges in the macroeconomic environment, this has caused a slight increase in the vintages.





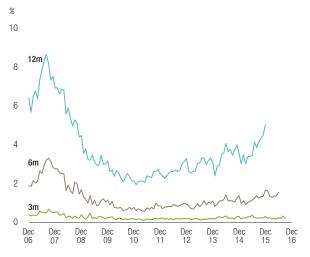
FNB HOMELOANS VINTAGE ANALYSIS



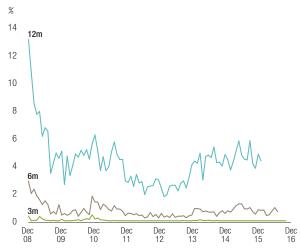
The retail SA VAF cumulative vintage analysis remained well below 2007 levels. More recently, vintages are reflecting continued increases as expected given the challenging macroeconomic environment. Risk appetite has been adjusted, with a continued focus on originating a portfolio weighted towards quality, low-risk business. Vintage deterioration is closely monitored and credit parameters adjusted to ensure that performance remains in line with expectations when considering the credit cycle.

FNB card default rates remain at low levels, even on a through-the-cycle basis. Risk appetite has increased slightly since October 2013, which resulted in more business written in the lower end of the consumer segment at slightly higher default rates. This was subsequently reviewed and adjusted downwards again.

WESBANK RETAIL SA VAF VINTAGE ANALYSIS



FNB CARD VINTAGE ANALYSIS

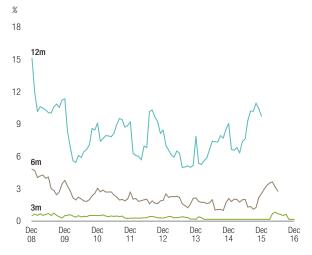




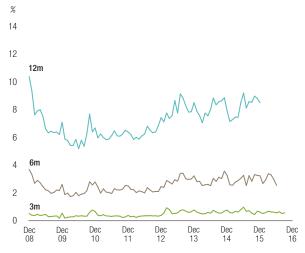
The default experience of the FNB and WesBank personal loans portfolios is within risk appetite. There is continued action to ensure these portfolios remain within risk appetite. As expected, defaults in FNB personal loans have trended upwards from historical low levels as a result of the macroeconomic conditions and strong book growth over the past three years.

WesBank personal loans vintages show a marginal deterioration from 2010 levels. This is expected given the challenging macroeconomic conditions and increased debt review applications. To counter this, credit parameters are continuously adjusted to ensure performance remains in line with expectations. Recent adjustments to credit appetite are proving effective and have assisted in countering macroeconomic conditions.

FNB PERSONAL LOANS VINTAGE ANALYSIS



WESBANK PERSONAL LOANS VINTAGE ANALYSIS



COUNTERPARTY CREDIT RISK

INTRODUCTION AND OBJECTIVES

Counterparty credit risk is the risk of a counterparty to a contract, transaction or agreement defaulting prior to the final settlement of the transaction's cash flows.

Counterparty credit risk measures a counterparty's ability to satisfy its obligations under a contract that has positive economic value to the group at any point during the life of the contract. It differs from normal credit risk in that the economic value of the transaction is uncertain and dependent on market factors that are typically not under the control of the group or the client.

Counterparty credit risk is a risk taken mainly in the group's trading and securities financing businesses. The objective of counterparty credit risk management is to ensure that this risk is appropriately measured, analysed and reported on, and is only taken within specified limits in line with the group's risk appetite framework as mandated by the board.

Period under review and focus areas

Period under review	Risk management focus areas
Focused on integrated assessment of credit, legal, liquidity and market risks of complex counterparty derivative portfolios.	Improve the group's internal counterparty credit risk exposure assessment methodology.
Performed impact assessment of upcoming liquidity, margin and capital regulations on derivative portfolios.	Implement the standardised approach to counterparty credit risk exposure at default measure during the last quarter of the 2017 financial year. The previous effective date of 1 January 2017 has been moved out by at least six months.
	Prepare for the implementation of mandatory clearing for the group's international counterparties under the European Market Infrastructure Regulation.
	Prepare for the implementation of Basel margin requirements for non-cleared derivatives.
	Refine internal derivative credit portfolio reporting.
	Build economic capital capability for counterparty credit risk exposure.

ORGANISATIONAL STRUCTURE AND GOVERNANCE

RMB's credit department is responsible for the overall management of counterparty credit risk. It is supported by RMB's derivative counterparty risk department which is responsible for ensuring that market and credit risk methodologies are consistently applied in the quantification of risk.

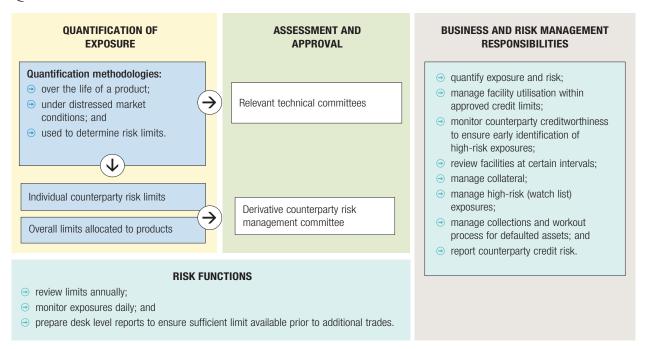
Counterparty credit risk is managed on the basis of the principles, approaches, policies and processes set out in the credit risk management framework for wholesale credit exposures. In this respect, counterparty credit risk governance aligns closely with the group's credit risk governance framework, with mandates and responsibilities cascading from the board through the RCC committee to the respective credit committees and subcommittees, as well as deployed and central risk management functions. Refer to the *risk governance* section and organisational structure and governance in the *credit risk* section for more details.

The derivative counterparty risk committee supports the credit risk management committee and its subcommittees with analysis and quantification of counterparty credit risk for traded product exposures.

ASSESSMENT AND MANAGEMENT

Measurement of counterparty credit risk aligns closely with credit risk measurement practices and is focused on establishing appropriate limits at a counterparty-level and ongoing portfolio risk management. The quantification of risk exposure is described in the following diagram.

QUANTIFICATION OF COUNTERPARTY CREDIT RISK EXPOSURE



The expected tail loss method is applied internally to estimate counterparty credit risk exposure at counterparty and/or portfolio level. These exposures are monitored daily against limits. Excesses and covenant breaches are managed in accordance with the excess approval and escalation mandates.

Counterparty credit risk mitigation

Where appropriate, various instruments are used to mitigate the potential exposure to certain counterparties. These include financial or other collateral in line with common credit risk practices. Collateral, in the form of cash and/or cash equivalents, is the primary credit risk mitigant employed against counterparty credit risk. Collateral arises from margin arrangements which are stipulated in standard agreements and is also a common method of providing market access to clients across certain business lines. The liquid nature of the collateral taken makes it effective as a mitigant in that their valuations, where applicable, are easily observable in the market and, therefore, lower regulatory haircuts apply. In addition, the group has set up a function to clear eligible OTC derivatives centrally, which contributes to risk mitigation through the use of a central counterparty.

The group uses ISDA and Global Master Repurchase Agreements for the purpose of netting derivative transactions and repurchase transactions, respectively. These master agreements as well as associated CSA, set out internationally accepted valuation and default covenants, which are evaluated and applied daily, including daily margin calls based on the approved CSA thresholds.

The effectiveness of the hedges and mitigants in place are monitored by a combination of counterparty risk limits and market risk limits. The setting of these limits is defined in accordance with the wholesale credit risk framework and the market risk limit framework. Global Markets counterparty credit risk team is the custodian of the policies that set collateral requirements for counterparties and portfolios. The business units are responsible for executing these policies and the RMB Business Resource Management desk is responsible for the overall management of funding costs/benefits of the collateral. Client and portfolio exposures, concentrations and effectiveness of collateral and hedges are monitored on an ongoing basis via the relevant derivative risk and Global Market credit risk committees in RMB.

Wrong-way risk exposure

The methods applied in managing counterparty credit limits, exposures and collateral create visibility on portfolio concentrations and exposures, which may be a source of wrong-way risk. These areas are monitored and managed within the relevant exposure mandates.

Credit valuation adjustment (CVA)

CVA refers to the fair value adjustment to reflect counterparty credit risk in the valuation of derivative contracts. In essence, it is the mark-to-market adjustment required to account for credit quality deterioration experienced by a derivative counterparty. Under Basel III regulations, banks are required to hold capital for CVA risk. South African banks have in the past been exempt from holding capital for CVA risk as there was no suitably scaled rand derivative OTC clearing house. This CVA capital exemption has, however, lapsed from 1 April 2015 and has led to an increase in counterparty credit risk RWA.

Collateral to be provided in the event of a credit rating downgrade

In rare instances, FirstRand has signed ISDA agreements where both parties would be required to post additional collateral in the event of a credit rating downgrade. The additional collateral to be provided by the group in the event of a credit rating downgrade is not material and would not adversely impact its financial position. The group is phasing out ISDA agreements with these provisions. The number of trades with counterparties with these types of agreements (and the associated risk) is also immaterial.

When assessing the portfolio in aggregate, the collateral that the group would need to provide in the event of a rating downgrade is subject to many factors, including market movements in the underlying traded instruments and netting of existing positions.

COUNTERPARTY CREDIT EXPOSURE

The following table provides an overview of the counterparty credit risk arising from the group's derivative and structured finance transactions. The standardised approach for measuring counterparty credit risk (SA-CCR) will be applicable to the group from a date to be determined after 1 July 2017. The information provided in row 1 (SA-CCR), therefore, corresponds to the requirements of the current exposure method. The group calculates exposures under both the standardised and current exposure method. EAD under the standardised method is quantified by scaling either the current credit exposure less collateral or the net potential future exposure by a factor of 1.4.

The comprehensive approach for credit risk mitigation is used to calculate the exposure for collateralised transactions other than collateralised OTC derivative transactions that are subject to the current exposure method (CEM). This approach is typically applied to securities financing and repo type of transactions.

The table below provides an explanation of the approaches used in the CCR1: Analysis of counterparty credit risk table on the next page.

Replacement cost	The replacement cost for trades that are not subject to margining requirements is the loss that would occur if a counterparty were to default and was closed out of its transactions immediately. For margined trades, the replacement cost is the loss that would occur if a counterparty were to default at present or at a future date, assuming that the close-out and replacement of transactions occur instantaneously. Under the CEM, the current replacement cost is determined by marking contracts to market, thus capturing the current exposure without any need for estimation.
Potential future exposure	The potential increase in the exposure between the present and the end of the margin period of risk. An add-on factor is applied to the replacement cost to determine the potential future exposure over the remaining life of the contract.
Effective expected positive exposure (EEPE)	The weighted average of the effective expected exposure over the first year, or, if all the contracts in the netting set mature before one year, over the time period of the longest-maturity contract in the netting set, where the weights represent the proportion of an individual expected exposure over the entire time interval.
EAD post credit risk mitigation (CRM)	Refers to the amount relevant to the calculated capital requirement over applying credit risk mitigation techniques, credit valuation adjustments and specific wrong-way adjustments.

The changes in counterparty credit risk exposure numbers from June to December 2016 in the tables CCR1-5 are attributable to a number of factors. These include changes in market prices, new exposures, changes in collateral, expired trades and hedges, counterparty rating migration, etc. The introduction of the new regulatory approach for counterparty credit risk (SA-CCR) also contributed to increases in exposures compared to previous periods.

CCR1: ANALYSIS OF COUNTERPARTY CREDIT RISK BY APPROACH FOR FIRSTRAND BANK (SA)

		As at 31 December 2016							
Rr	nillion	Replacement cost	Potential future exposure	EEPE	Alpha used for computing regulatory EAD	EAD post-CRM	RWA		
1.	Standardised approach (for derivatives)*	6 288	11 433	-	1.4	24 810	13 509		
4.	Comprehensive approach for credit risk mitigation for security financing transactions**	_	_	_	_	1 882	1 980		
5.	VaR for security financing transactions#	-	_	_	_	_	_		
6.	Total	6 288	11 433	_	_	26 692	15 489		

^{*} EEPE is not calculated under SA-CCR (for derivatives).

[#] Replacement cost, potential future exposure, alpha used for computing regulatory EAD, EAD post-CRM and RWA are not inputs into the VaR model calculation for security financing transactions.

			As at 30 J	une 2016*		
R million	Replacement cost	Potential future exposure	EEPE	Alpha used for computing regulatory EAD	EAD post-CRM	RWA
Standardised approach (for derivatives)**	7 210	12 911	_	1.4	28 169	16 326
Comprehensive approach for credit risk mitigation for security financing transactions*	_	_	_	_	2 772	2 484
5. VaR for security financing transactions [†]	_	_	_	_	_	-
6. Total	7 210	12 911	_	_	30 941	18 811

^{*} June 2016 restated due to refinement of replacement cost and potential future exposure calculation method.

^{**} Replacement cost, potential future exposure, EEPE and alpha used for computing regulatory EAD is not calculated under the comprehensive approach for security financing transactions.

^{**} EEPE is not calculated under SA-CCR (for derivatives).

[#] Replacement cost, potential future exposure, EEPE and alpha used for computing regulatory EAD is not calculated under the comprehensive approach for security financing transactions.

[†] Replacement cost, potential future exposure, alpha used for computing regulatory EAD, EAD post-CRM and RWA are not inputs into the VaR model calculation for security financing transactions.

The following table provides the exposure at default post CRM and RWA amounts for portfolios subject to the standardised CVA capital charge. As the group does not apply the advanced approach for CVA charge, rows 1 and 2 are excluded from *CCR2: CVA Capital charge*.

CCR2: CVA CAPITAL CHARGE

	As at 31 Dec	ember 2016	As at 30 June 2016	
R million	EAD post-CRM	RWA	EAD post-CRM	RWA
All portfolios subject to the standardised CVA capital charge	26 691	6 566	30 941	7 244
4. Total subject to the CVA capital charge	26 691	6 566	30 941	7 244

CCR3: STANDARDISED APPROACH – EXPOSURES BY REGULATORY PORTFOLIO AND RISK WEIGHTS*

	As at 31 December 2016									
		Risk weight**								
R million	0%	20%	50%	75%	100%	150%	Total credit exposure			
Asset classes#										
Sovereigns	_	_	775	_	6	_	781			
Non-central government public sector entities	_	_	1	_	_	_	1			
Banks	185	_	114	_	5	_	304			
Securities firms	_	_	0.14	_	_	_	0.14			
Corporates	646	_	85	_	979	1	1 711			
Regulatory retail portfolios	_	_	_	199	_	_	199			
Other assets	2	1	_	15	43	_	61			
Total	833	1	975	214	1 033	1	3 057			

^{*} These exposures are for subsidiaries in the rest of Africa and foreign branches.

[#] There were no exposures in the multilateral development banks and securities firms asset classes at 31 December 2016.

	Risk weight**							
R million	0%	20%	50%	75%	100%	150%	Total credit exposure	
Asset classes#								
Sovereigns	_	446	_	-	292	_	738	
Non-central government public sector entities	_	_	139	_	_	_	139	
Banks	2 348	63	304	_	7	_	2 722	
Securities firms	_	_	46	_	7	_	53	
Corporates	_	_	_		600	_	600	
Total	2 348	509	489	_	906	_	4 252	

^{*} These exposures are for subsidiaries in the rest of Africa and foreign branches.

 $^{^{\}star\star}$ There were no exposures in the 10% and 35% risk weight buckets at 31 December 2016.

^{**} There were no exposures in the 10%, 35%, 75% and 150% risk weight buckets at 31 December 2016.

[#] There were no exposures in the multilateral development banks, regulatory retail and other asset classes at 31 December 2016.

The following tables provide the counterparty credit risk exposures per portfolio and PD range where the AIRB approach is used for credit risk. It also includes the main parameters used in the calculation of RWA. These exposures are for FirstRand Bank (SA), where AIRB for credit risk is applied.

The information provided in the different columns is explained as follows:

- EAD post CRM, gross of accounting provisions;
- average PD is the obligor-grade PD weighted by EAD;
- average LGD is the obligor-grade LGD weighted EAD;
- average maturity in years is obligor maturity weighted by EAD; and
- RWA density is total risk weighted assets to EAD post-CRM.

CCR4: AIRB - COUNTERPARTY CREDIT RISK EXPOSURES BY PORTFOLIO AND PD RANGE

		Total FirstRand Bank (SA)										
		As at 31 December 2016										
PD scale	EAD post-CRM R million	Average PD %	Number of obligors	Average LGD %	Average maturity Years	RWA R million	RWA density					
0.00 to <0.15	5 404	0.07	51	26.22	1.25	859	15.89					
0.15 to <0.25	9 249	0.16	147	23.33	1.74	1 915	20.70					
0.25 to <0.50	1 094	0.35	70	34.30	1.23	503	45.93					
0.50 to <0.75	164	0.56	34	39.87	8.30	135	82.77					
0.75 to <2.50	3 238	1.08	176	26.84	1.91	2 022	62.47					
2.50 to <10.00	1 238	3.22	192	35.48	1.50	1 324	106.88					
10.00 to <100.00	61	22.00	25	31.05	1.09	100	164.21					
100.00 (default)	_	_	-	-	-	-	_					
Total	20 448		695			6 858	33.54					

		Total FirstRand Bank (SA) As at 30 June 2016									
PD scale	EAD post-CRM R million	Average PD %	Number of obligors	Average LGD %	Average maturity Years	RWA R million	RWA density %				
0.00 to <0.15	5 842	0.07	53	24.18	1.49	922	15.79				
0.15 to <0.25	9 044	0.16	159	21.57	1.60	1 571	17.37				
0.25 to <0.50	2 134	0.35	73	28.23	0.76	720	33.74				
0.50 to <0.75	390	0.56	35	49.36	3.42	297	76.08				
0.75 to <2.50	3 747	1.09	193	33.12	2.18	3 009	80.33				
2.50 to <10.00	1 741	2.96	212	46.46	1.04	2 410	138.41				
10.00 to <100.00	44	22.71	37	25.35	1.59	63	141.89				
100.00 (default)	_	_	-	-	-	-	_				
Total	22 942		762			8 992	39.20				

The change in average maturity in the PD band (0.50% to <0.75%) from 3.42 to 8.30 was due to the long-dated fixed income transactions dealt with securities company during this period. The exposures above exclude central clearing counterparties and securities financing transactions.

CCR4: AIRB - COUNTERPARTY CREDIT RISK EXPOSURES BY PORTFOLIO AND PD RANGE continued

		Banks										
		As at 31 December 2016										
PD scale	EAD post-CRM R million	Average PD %	Number of obligors	Average LGD %	Average maturity Years	RWA R million	RWA density %					
0.00 to <0.15	5 023	0.07	40	26.50	1.26	809	16.11					
0.15 to <0.25	942	0.15	7	24.39	1.58	224	23.81					
0.25 to <0.50	287	0.35	14	36.81	1.27	147	51.28					
0.50 to <0.75	1	0.56	1	40.00	0.15	0.33	52.22					
0.75 to <2.50	49	1.06	4	39.92	0.74	39	81.06					
2.50 to <10.00	9	4.14	13	40.50	0.54	12	129.20					
10.00 to <100.00	17	32.17	8	27.31	0.28	25	151.83					
100.00 (default)	_	_	_	-	-	-	_					
Subtotal	6 328		87			1 256	19.88					

		Banks As at 30 June 2016									
PD scale	EAD post-CRM R million	Average PD %	Number of obligors	Average LGD %	Average maturity Years	RWA R million	RWA density %				
0.00 to <0.15	5 154	0.07	42	24.24	1.55	849	16.47				
0.15 to <0.25	706	0.15	10	22.45	1.37	135	19.09				
0.25 to <0.50	94	0.35	10	33.04	0.33	41	43.28				
0.50 to <0.75	5	0.06	2	39.73	0.08	3	51.87				
0.75 to <2.50	195	1.21	3	40.08	0.09	183	93.91				
2.50 to <10.00	49	2.94	8	66.70	0.89	101	203.41				
10.00 to <100.00	22	32.18	12	29.71	0.62	37	165.22				
100.00 (default)	_	_	-	-	-	-	_				
Subtotal	6 225		87			1 349	21.64				

The bank's portfolio EAD post-CRM numbers remained flat when comparing June to December 2016 period ends, despite the change in market prices, new exposures, changes in collateral, expired trades and hedges, and counterparty rating migration.

CCR4: AIRB - COUNTERPARTY CREDIT RISK EXPOSURES BY PORTFOLIO AND PD RANGE continued

		Securities									
			As a	it 31 December 2	016						
PD scale	EAD post-CRM R million	Average PD %	Number of obligors	Average LGD	Average maturity Years	RWA R million	RWA density %				
0.00 to <0.15	304	0.08	3	19.90	1.14	41	13.33				
0.15 to <0.25	6 097	0.16	71	20.30	1.29	926	15.19				
0.25 to <0.50	50	0.35	16	19.18	3.37	19	37.54				
0.50 to <0.75	101	0.56	7	41.92	11.48	100	99.53				
0.75 to <2.50	2 231	1.17	77	24.03	1.45	1 281	57.41				
2.50 to <10.00	922	2.89	99	34.43	1.27	970	105.14				
10.00 to <100.00	27	10.24	9	24.72	2.17	33	120.73				
100.00 (default)	_	_	_	-	-	-	_				
Subtotal	9 732		282			3 370	34.62				

				Securities			
			As	at 30 June 2016	3		
PD scale	EAD post-CRM R million	Average PD %	Number of obligors	Average LGD %	Average maturity Years	RWA R million	RWA density %
0.00 to <0.15	382	0.06	2	27.79	1.36	48	12.61
0.15 to <0.25	3 970	0.16	49	26.13	0.97	695	17.50
0.25 to <0.50	558	0.35	13	5.92	0.65	39	6.98
0.50 to <0.75	3	0.56	2	21.51	3.52	2	55.27
0.75 to <2.50	2 066	1.18	72	32.99	1.74	1 727	83.62
2.50 to <10.00	1 173	2.62	99	53.66	1.04	1 906	162.47
10.00 to <100.00	19	10.24	10	17.29	2.98	19	98.75
100.00 (default)	_	_	-	-	-	-	_
Subtotal	8 171		247			4 436	54.29

Between June and December 2016 a number of counterparties were reclassified from the corporate portfolio to the securities firms and public sector portfolios.

The increase in EAD post-CRM in the 0.15% to <0.25% PD band was due to an increase in the number of counterparties in this band and an overall increase in volumes of interest rate swaps. The change in average maturity in the 0.50% to <0.75% PD band from 3.52 to 11.48 was due to long-dated fixed income transactions dealt with securities companies during this period.

CCR4: AIRB - COUNTERPARTY CREDIT RISK EXPOSURES BY PORTFOLIO AND PD RANGE continued

				Corporate			
			As a	at 31 December 2	016		
PD scale	EAD post-CRM R million	Average PD %	Number of obligors	Average LGD	Average maturity Years	RWA R million	RWA density
0.00 to <0.15	77	0.07	8	32.55	0.92	9	11.77
0.15 to <0.25	973	0.18	61	32.87	0.84	269	27.67
0.25 to <0.50	422	0.35	31	37.60	0.46	163	38.49
0.50 to <0.75	60	0.56	24	36.64	3.22	34	55.93
0.75 to <2.50	265	1.05	81	39.22	0.46	185	69.85
2.50 to <10.00	300	4.14	72	38.57	2.22	333	110.81
10.00 to <100.00	17	30.99	8	44.99	0.15	42	246.85
100.00 (default)	_	_	_	-	-		_
Subtotal	2 114		285			1 035	48.89

		Corporate								
			As	at 30 June 2016	3					
PD scale	EAD post-CRM R million	Average PD %	Number of obligors	Average LGD %	Average maturity Years	RWA R million	RWA density %			
0.00 to <0.15	306	0.08	8	18.79	0.70	26	8.38			
0.15 to <0.25	4 205	0.16	90	16.87	2.15	680	16.18			
0.25 to <0.50	928	0.35	41	39.95	0.36	377	40.58			
0.50 to <0.75	381	0.56	29	49.76	3.47	292	76.66			
0.75 to <2.50	696	1.10	108	35.45	0.81	463	66.44			
2.50 to <10.00	496	3.63	98	27.94	0.93	373	75.23			
10.00 to <100.00	3	30.23	15	42.70	0.08	7	235.12			
100.00 (default)	_	_	-	-	_	-	_			
Subtotal	7 015		389			2 218	31.62			

The overall decrease in EAD post-CRM for the corporate portfolio was due to a decrease in exposure in the 0.15% to <0.25% PD band. This was driven by a decrease in the number of counterparties in this band, maturing large transactions and an overall decrease in the size and volume of transactions. A number of counterparties have been reclassified from the corporate portfolio to the securities firms and public sector portfolios.

CCR4: AIRB - COUNTERPARTY CREDIT RISK EXPOSURES BY PORTFOLIO AND PD RANGE continued

		Public sector and local government								
			As a	it 31 December 2	2016					
PD scale	EAD post-CRM R million	Average PD %	Number of obligors	Average LGD %	Average maturity Years	RWA R million	RWA density			
0.00 to <0.15	-	-	-	-	-	-	-			
0.15 to <0.25	1 205	0.16	5	30.16	4.86	487	40.43			
0.25 to <0.50	2	_	1	-	2.15	1	48.00			
0.50 to <0.75	1	_	1	-	-	0.32	55.49			
0.75 to <2.50	659	_	3	-	4.08	499	75.74			
2.50 to <10.00	_	-	_	_	-	-	_			
10.00 to <100.00	_	_	_	- 1	_		_			
100.00 (default)	_	_	_	- 1	_	–	_			
Subtotal	1 867		10			987	52.90			

		Public sector and local government									
		As at 30 June 2016									
PD scale	EAD post-CRM R million	Average PD %	Number of obligors	Average LGD %	Average maturity Years	RWA R million	RWA density %				
0.00 to <0.15	_	_	_	_	_	-	_				
0.15 to <0.25	141	_	6	29.50	3.51	56	39.51				
0.25 to <0.50	273	_	1	_	1.20	205	75.20				
0.50 to <0.75	_	_	_	_	_	_	_				
0.75 to <2.50	747	_	1	_	_	613	82.00				
2.50 to <10.00	_	_	_	-	_	-	_				
10.00 to <100.00	_	_	_	-	_	-	_				
100.00 (default)	_	_	_	-	_	-	_				
Subtotal	1 161		8			874	75.30				

The overall increase in EAD post-CRM for the public sector and local government portfolio is due to an increase in exposure in the 0.15% to <0.25% PD band. This was driven by an increase in the number of counterparties in this band, maturing large transactions, and an overall increase in the size and volume of transactions. A number of counterparties have been reclassified from the corporate portfolio to the securities firms and public sector portfolios.

CCR4: AIRB - COUNTERPARTY CREDIT RISK EXPOSURES BY PORTFOLIO AND PD RANGE continued

		Sovereign								
			As a	at 31 December	2016					
PD scale	EAD post-CRM R million	Average PD %	Number of obligors	Average LGD %	Average maturity Years	RWA R million	RWA density %			
0.00 to <0.15	-	-	-	_	-	_	-			
0.15 to <0.25	1	0.19	1	42.71	2.26	0.35	55.16			
0.25 to <0.50	163	0.35	1	_	1.83	134	82.01			
0.50 to <0.75	_	_	_	_	_	_	_			
0.75 to <2.50	_	_	_	_	_	_	_			
2.50 to <10.00	_	_	_	_	_	_	_			
10.00 to <100.00	_	_	_	_	_	_	_			
100.00 (default)	_	_	_	_	_	_	_			
Subtotal	164		2			134	81.91			

		Sovereign								
		As at 30 June 2016								
PD scale	EAD post-CRM R million	Average PD %	Number of obligors	Average LGD %	Average maturity Years	RWA R million	RWA density %			
0.00 to <0.15	0.05	0.03	1	45.00	0.01	0.004	8.03			
0.15 to <0.25	0.15	0.19	2	42.92	2.09	0.082	53.54			
0.25 to <0.50	_	_	_	_	_	_	_			
0.50 to <0.75	_	_	_	_	_	_	_			
0.75 to <2.50	_	_	_	_	_	_	_			
2.50 to <10.00	_	_	_	_	_	_	_			
10.00 to <100.00	_	_	_	-	_	_	_			
100.00 (default)	_	_	_	_	-	_	_			
Subtotal	0.20		3			0.086	42.55			

The increase in EAD post-CRM was due to new transactions.

CCR4: AIRB - COUNTERPARTY CREDIT RISK EXPOSURES BY PORTFOLIO AND PD RANGE continued

		Other									
			As a	at 31 December 2	016						
PD scale	EAD post-CRM R million	Average PD %	Number of obligors	Average LGD %	Average maturity Years	RWA R million	RWA density %				
0.00 to <0.15	-	-	-	_	-	-	_				
0.15 to <0.25	31	0.19	2	19.36	3.52	8	23.95				
0.25 to <0.50	170	0.35	7	16.00	1.88	40	23.26				
0.50 to <0.75	1	0.56	1	15.00	1.33	0.11	21.99				
0.75 to <2.50	34	0.88	11	22.60	3.36	18	53.44				
2.50 to <10.00	7	6.47	6	34.16	3.03	10	136.86				
10.00 to <100.00	_	_	-	-	-	-	_				
100.00 (default)	_	_	_	_	-	-	_				
Subtotal	243		27			76	30.95				

		Other									
		As at 30 June 2016									
PD scale	EAD post-CRM R million	Average PD %	Number of obligors	Average LGD %	Average maturity Years	RWA R million	RWA density %				
0.00 to <0.15	_	-	-	-	-	-	_				
0.15 to <0.25	22	0.19	2	19.05	3.67	5	24.05				
0.25 to <0.50	281	0.35	8	15.93	2.02	59	20.85				
0.50 to <0.75	1	0.56	1	15.00	1.83	0.17	23.63				
0.75 to <2.50	43	0.97	9	24.38	2.91	23	54.09				
2.50 to <10.00	23	5.68	6	34.99	4.07	30	134.04				
10.00 to <100.00	_	_	_	-	-	-	_				
100.00 (default)	_	_	_	-	-	-	_				
Subtotal	370		26	-	-	117	31.82				

The decrease in EAD post-CRM in the 0.25% to <0.50% PD band can be attributed to matured trades during the period from July to December 2016.

The following tables provide the composition of collateral for counterparty credit risk exposures per category for collateral used in derivative transactions, split between fair value of collateral received and posted collateral. "Segregated" refers to collateral which is held in a bankruptcy-remote manner and "unsegregated" refers to collateral not held in a bankruptcy-remote manner.

CCR5: COMPOSITION OF COLLATERAL FOR COUNTERPARTY CREDIT RISK EXPOSURE PER COLLATERAL CATEGORY*

		As at 31 December 2016*									
		Collateral derivative tr			Collateral used in security finance transactions						
	Fair va collateral	alue of received		alue of collateral	Fair value of collateral	Fair value of posted					
R million	Segregated	Unsegregated	Segregated	Unsegregated	received	collateral					
Cash – domestic currency	9 088	7 236	_	1 618	-	_					
Cash – other currencies	-	2 508	-	_	-	_					
Domestic sovereign debt	_	_	_	194	289 852	300 582					
Other sovereign debt	_	-	_	_	60	60					
Government agency debt	_	_	_	_	12 016	12 701					
Corporate bonds	_	_	_	262	2 492	2 211					
Other collateral	_	_	-	2 253	-	_					
Total	9 088	9 744	_	4 327	304 420	315 554					

^{*} There was no collateral in the and equity securities category during the period.

		As at 30 June 2016*									
		Collatera derivative t	I used in ransactions		Collateral used in transac						
	Fair va collateral		Fair va posted c		Fair value of collateral	Fair value of posted					
R million	Segregated	Unsegregated	Segregated	Unsegregated	received	collateral					
Cash – domestic currency	11 020	6 339	-	2 277	_	_					
Cash – other currencies	-	2 846	_	_	_	-					
Domestic sovereign debt	-	_	_	190	277 691	273 047					
Other sovereign debt	-	_	-	_	79	79					
Government agency debt	-	_	-	255	12 545	12 821					
Corporate bonds	-	_	-	3 973	2 451	2 461					
Other collateral	-	_	-	10	_	_					
Total	11 020	9 185	-	6 706	292 766	288 408					

^{*} There was no collateral in the and equity securities category during the period.

The collateral decrease was in line with an overall decrease in exposures.

The group employs credit derivatives primarily for the purposes of protecting its own positions and for hedging its credit portfolio as indicated in the following tables.

CCR6: CREDIT DERIVATIVES

	As at 31 De	As at 31 December 2016		
R million	Protection bought	Protection sold		
Notionals*				
- Single-name credit default swaps	15 101	4 866		
Total notionals	15 101	4 866		
Fair values	60	(15)		
- Positive fair value (asset)	476	1 000		
Negative fair value (liability)	(416)	(1 015)		

^{*} There were no credit derivatives in the index credit default swaps, total return swaps, credit options and other credit derivative categories in 2016.

	As at 30 June 2016	
R million	Protection bought	Protection sold
Notionals*		
- Single-name credit default swaps	16 344	6 460
Total notionals	16 344	6 460
Fair values	99	(223)
- Positive fair value (asset)	102	2
- Negative fair value (liability)	(3)	(225)

^{*} There were no credit derivatives in the index credit default swaps, total return swaps, credit options and other credit derivative categories in 2016.

The decrease in protection bought was in line with the decrease in portfolio exposures.

The group's exposure to central counterparties and related RWA is provided below.

CCR8: EXPOSURES TO CENTRAL COUNTERPARTIES

		As at 31 December 2016		
R n	nillion	EAD post-CRM	RWA	
2.	Exposures for trade at qualifying central counterparties (excluding initial margin and default fund contributions); of which:	4 363	88	
3.	- OTC derivatives	383	8	
4.	- Exchange-traded derivatives	3 980	80	
5.	- Nettings sets where cross-product netting has been approved	-	-	
6.	Securities financing transactions	-	-	
7.	Segregated initial margin	9 088	_	
8.	Non-segregated initial margin	_	_	
9.	Pre-funded default fund contributions	_	1 290	
10.	Unfunded default fund contributions	-	_	
1.	Total exposures to qualifying central counterparties*	13 451	1 378	

^{*} There are no exposures to non-qualifying central counterparties (rows 11-20) for the period.

	As at 30 J	une 2016
R million	EAD post-CRM	RWA
2. Exposures for trade at qualifying central counterparties (excluding initial margin		
contributions); of which:	5 228	104
3. – OTC derivatives	154	3
4 Exchange-traded derivatives	5 074	101
5 Nettings sets where cross-product netting has been approved	_	_
6. – Securities financing transactions	_	_
7. Segregated initial margin	11 020	_
8. Non-segregated initial margin	_	_
9. Pre-funded default fund contributions	_	1 188
10. Unfunded default fund contributions	_	_
Total exposures to qualifying central counterparties*	16 248	1 292

^{*} There are no exposures to non-qualifying central counterparties (rows 11 – 20) for the period.

The change in EAD post-CRM for the period was attributable to changes in market prices, new exposures, expired trades and hedges and changes in collateral.

SECURITISATIONS

INTRODUCTION AND OBJECTIVES

Securitisation is the structured process whereby loans and other receivables are packaged, underwritten and sold in the form of asset-backed securities to capital market investors.

Objectives of securitisation activities

Asset securitisations enable the group to access funding markets at ratings higher than its own corporate credit rating, which generally provides access to broader funding sources at more favourable rates. The removal of the assets and supporting funding from the balance sheet enables the group to reduce some of the costs of on-balance sheet financing, and manage potential asset-liability mismatches and credit concentrations.

The group uses securitisation as a tool to achieve one or more of the following objectives:

- improve the group's liquidity position through the diversification of funding sources;
- match the cash flow profile of assets and liabilities;
- reduce balance sheet credit risk exposure; and
- manage credit concentration risk.

Exposures intended to be securitised or resecuritised in the future

Recently FirstRand has used securitisation primarily as a funding tool. The ability to securitise assets depends on the availability of assets to securitise, investor appetite for securitisation paper and comparison with alternative funding sources. All assets on the group's balance sheet are considered as possible exposures that could be securitised within market constraints. The group obtains SARB approval of the structure and limits imposed by the board on the size of assets that may be securitised.

Resecuritisation

A resecuritisation exposure is a structure where the risk associated with an underlying pool of exposures is tranched and at least one of the underlying exposures is a securitisation.

Resecuritisation results from portfolio management actions and the size of the exposure is dependent on future market factors. This exposure is reported as part of the investor reporting process. The group's asset-backed commercial paper conduit occasionally acquires securitisation paper, which is managed as part of the underlying portfolio. This represents a minimal portion of the total portfolio and is accounted for as a resecuritisation exposure for regulatory capital purposes.

ORGANISATIONAL STRUCTURE AND GOVERNANCE

GROUP'S ROLE IN SECURITISATION AND CONDUIT STRUCTURES

Transaction	Originator	Sponsor	Servicer	Investor	Liquidity provider	Credit enhance- ment provider	Swap counter- party
Own securitisations							
Nitro 5	✓	✓	✓	✓			✓
FAST Issuer	✓	✓	✓	✓			✓
Turbo Finance 4	✓	✓	✓	✓			
Turbo Finance 5	✓	✓	✓	✓			
Turbo Finance 6	✓	✓	✓	✓			
Turbo Finance 7	✓	✓	✓	✓			
MotoHouse	✓	✓	✓	✓			
Conduit structures							
iNdwa*		✓	✓		✓		✓
iVuzi*		✓	✓		✓	✓	✓
iNkotha**			✓				
iNguza**			✓				
Third party				***************************************			
Superdrive Investments				✓			
Torque Securitisation					✓		
Velocity Finance				✓			✓

^{*} Conduits incorporated under regulations relating to securitisation scheme.

FirstRand Limited does not have any affiliated entities that it manages or advises nor does the group have affiliated entities that invest in securitisation exposures that the group has securitised.

Ultimate responsibility for determining risk limits and appetite for the group vests with the board. Independent oversight for monitoring is through the RCC committee, who, in turn, has delegated responsibility for securitisations to group ALCCO. ALCCO also maintains responsibility on behalf of the board for the allocation of sublimits and remedial action to be taken in the event of limit breaches. The FirstRand wholesale credit committee approves individual retained securitisation exposures per special purpose vehicle (SPV).

^{**} Conduits incorporated under regulations relating to commercial paper.

ASSESSMENT AND MANAGEMENT

Oversight and risk mitigation

The group's role in securitisation transactions (both for group-originated and group-sponsored transactions) as well as third-party securitisations, results in various financial and operational risks, including:

- compliance risk;
- credit risk:
- currency risk;
- interest rate risk;
- liquidity and funding risk;
- operational risk; and
- reputational risk.

For securitisations originated by the group, exposures are managed from a credit perspective by the originating business units as if the securitisation had never occurred. Resultant risks from retained exposures and the overall origination and maintenance of securitisation structures are covered as part of the day-to-day management of the various risk types. This includes risk mitigation and management actions depending on risk limits and appetite per risk area. Securitisation performance is monitored on an ongoing basis and reported to management and governance forums.

Some governance and management processes in place to monitor securitisation-related risks are outlined below:

- rigorous internal approval processes are in place for proposed securitisations and transactions are reviewed by ALCCO, the RCC committee and the board against approved board limits;
- changes to retained exposures (as a result of ratings changes, reviews, note redemptions and credit losses) are reflected in the monthly BA 500 regulatory return; and
- transaction investor reports, alignment with SPV financial reporting and the impact of underlying asset performance are reflected on the quarterly BA 501 regulatory return.

The group does not employ credit risk mitigation techniques to hedge credit risk on retained securitisation tranches.

Summary of accounting policies for securitisation activities

From an accounting perspective, traditional securitisations are treated as sales transactions. At inception, the assets are sold to a SPV at carrying value and no gains or losses are recognised. For synthetic securitisations, credit derivatives used in the transaction are recognised at fair value, with any fair value adjustments reported in profit or loss.

Securitisation entities are consolidated into FRIHL for financial reporting purposes. Any retained notes are accounted for as available-for-sale investment securities in the banking book. Liabilities as a result of securitisation vehicles are accounted for in line with group accounting policies for liabilities, provisions and contingent liabilities.

Period under review

FAST Issuer

The FAST Issuer SPV is a private securitisation of ZAR-denominated vehicle finance loans originated by WesBank. The transaction allows the group to raise USD funding secured against ZAR assets.

FAST incorporates a 12-month revolving period during which capital and prepayment proceeds from the underlying assets are used to purchase additional qualifying loans from WesBank and thus maintain the transaction balance.

The following table provides further detail regarding the notes:

Tranche	Tranche size USD million	Tranche size ZAR million
Class A	350	_
Class B	_	1 256
Class C	_	330
Sub-loan	-	66
Total	350	1 652

Turbo Finance 7

In November 2016, FirstRand Bank London branch structured and executed a seventh securitisation under the Turbo Finance programme. Turbo Finance 7 (Turbo 7) is a revolving cash securitisation of auto loans extended to obligors by MotoNovo Finance. The note issuance of GBP571.9 million is rated by both S&P and Moody's Investor Service (Moody's). The transaction features a six-month revolving period (as opposed to a 12-month revolving period previously).

Further improvements to Turbo 7 include the introduction of additional loan product types to better reflect the composition of the MotoNovo (UK) balance sheet, as well as the introduction of a EUR-denominated class A tranche. Good demand resulted in the class A1 and A2 notes being oversubscribed.

The following table provides further detail regarding the notes issued:

Tranche	Final ratings (S&P/Moody's)	Tranche size GBP million	Spread
Class A1 (GBP)	AAA/Aaa	385	1m LIBOR + 0.60%
Class A2 (EUR)	AAA/Aaa	106.5 (EUR125m)	1m LIBOR + 0.76%
Class B	A/Aa3	58.4	1m LIBOR + 1.50%
Class C	A-/Ba1	8.5	1.65%
Class D	Unrated	9.7	1.65%
Class E	Unrated	3.8	15%
Total		571.9	

Turbo 7 is compliant with Article 122a of the *EU Capital Requirement Directive* where the bank chose to use the on-balance sheet retention method to meet the 5% retained interest requirement.

External credit assessment institutions (ECAIs)

The group employs eligible ratings issued by nominated ECAIs to risk weight its securitisation and resecuritisation exposure where the use is permitted. The ECAIs nominated by the group for this purpose are Moody's, S&P and Fitch. The following tables show the traditional securitisations currently in issue and the rating distribution of all exposures retained. Global scale ratings are used for internal risk management purposes and regulatory capital reporting.

TRADITIONAL SECURITISATION TRANSACTIONS*

Traditional securitisations	Asset type	Rating agency	Year initiated	Expected close
Nitro 5	Retail: Auto loans	S&P	2015	2018
FAST Issuer	Retail: Auto Ioans		2016	2019
Turbo Finance 4	Retail: Auto Ioans	Moody's and Fitch	2013	2017
Turbo Finance 5	Retail: Auto Ioans	Moody's and Fitch	2014	2018
Turbo Finance 6	Retail: Auto Ioans	S&P and Moody's	2016	2020
Turbo Finance 7	Retail: Auto Ioans	S&P and Moody's	2016	2020
MotoHouse	Retail: Auto loans		2015	2018

		Asse	Assets outstanding**		Notes outstanding			Retained exposure		
R million	Assets securitised	Dec 2016	Dec 2015	Jun 2016	Dec 2016	Dec 2015	Jun 2016	Dec 2016	Dec 2015	Jun 2016
Nitro 5	2 399	926	1 766	1 316	1 023	1 920	1 428	226	226	226
FAST Issuer	6 709	6 258	_	_	6 588	_	_	1 754	_	-
Turbo Finance 4	6 095	1 082	3 962	2 129	1 207	4 251	2 328	362	1 129	646
Turbo Finance 5	7 790	2 948	8 443	5 064	3 161	8 950	5 430	1 040	2 420	1 588
Turbo Finance 6	8 839	6 456		7 429	6 674	_	7 768	2 074	_	2 414
Turbo Finance 7	9 670	8 974			9 689	_	_	599	_	_
MotoHouse	5 667	4 870	6 600	5 561	5 084	6 974	5 917	351	481	408
Total		31 514	20 771	21 499	33 426	22 095	22 871	6 406	4 256	5 282

^{*} Includes transactions structured by the group and excludes third-party transactions.

^{**} Does not include cash reserves.

SECURITISATION EXPOSURES IN THE BANKING BOOK

The following tables provide a breakdown of the group's traditional securitisation exposures in the banking book for the retail and corporate portfolio where the group acts as originator, sponsor, investor, or originator and sponsor.

SEC1: SECURITISATION EXPOSURES IN THE BANKING BOOK PER PORTFOLIO

	As at 31 December 2016							
		Traditional securitisation						
R million	Group acts as Group acts as Group acts as Group acts as Originator originator sponsor investor sponsor							
1. Retail								
4. – Auto Ioans	6 407	31	17 914	_	24 352			
6. Corporate								
7 Loans to corporates	3 601 3 601							
Total	6 407	31	17 914	3 601	27 953			

		As at 31 December 2015							
		Traditional securitisation							
R million	Group acts as originator								
1. Retail									
4. – Auto Ioans	4 256	31	10 232	_	14 519				
6. Corporate									
7. – Loans to corporates	_	_	_	3 890	3 890				
Total	4 256	31	10 232	3 890	18 409				

		As at 30 June 2016 Traditional securitisation						
R million	Group acts as originator							
1. Retail								
4. – Auto Ioans	5 282	31	14 994	_	20 307			
6. Corporate								
7. – Loans to corporates	_	_	_	3 088	3 088			
Total	5 282	31	14 994	3 088	23 395			

There were no residential mortgage (row 2), credit card (row 3) or resecuritisation (row 5) exposures in the retail portfolio and no commercial mortgage, lease and receivables, other wholesale exposures or resecuritisations in the corporate portfolio (rows 8 – 11).

The regulatory approaches for securitisation exposures in the following tables are explained as follow.

Internal ratings-based approach (IRB)	Ratings-based approach (RBA) Securitisation exposures to notes rated by an ECAI and held in an entity that uses the IRB approach.
	Internal assessment approach (IAA) The group does not use the IAA for calculating risk weighted assets on securitisation exposures.
	Supervisory formula approach (SFA) Where the SFA is used, these exposures are captured in the IRB SFA column.
Standardised approach (SA)	Exposures subject to the look-through approach are disclosed in the simplified supervisory approach (SSFA).
Unrated notes	Exposures to unrated notes are risk weighted at 1250%.

There were no synthetic securitisations during the period under review.

SEC3: TRADITIONAL SECURITISATION EXPOSURES IN THE BANKING BOOK AND ASSOCIATED REGULATORY CAPITAL REQUIREMENTS – BANK ACTING AS ORIGINATOR OR AS SPONSOR

	As at 31 December 2016*									
		Exposure values by RW bands					sure values by	regulatory app	oroach	
		>20%	>50%	>100% to		IF.	RB	SA		
R million	≤20% RW	to 50% RW	to 100% RW	<1250% RW	1250% RW	RBA	SFA	SSFA	1250%	
Securitisation										
4. – Retail	3 809	282	223	683	1 441	31	1 344	3 622	1 441	
5. – Corporate	_	3 601	_	_	_	-	44	3 577	-	
Total	3 809	3 883	223	683	1 441	31	1 388	7 179	1 441	

^{*} There were no resecuritisations or synthetic securitisations (rows 6-15) during the period.

	As at 31 December 2015*									
Exposure values by RW bands						Expos	ure values by	regulatory app	oroach	
		>20%	>50%	>100% to		IF	RB	SA		
R million	≤20% RW	to 50% RW	to 100% RW	<1250% RW	1250% RW	RBA	SFA	SSFA	1250%	
Securitisation										
4. – Retail	2 442	387	_	511	947	31	_	3 309	947	
5. – Corporate	1 804	2 086	_	_	_	_	1 804	2 086	_	
Total	4 246	2 473	_	511	947	31	1 804	5 395	947	

^{*} There were no resecuritisations or synthetic securitisations (rows 6-15) during the period.

										1
				30 June 201	6*					
		Exposu	re values by R\	N bands		Expos	Exposure values by regulatory approach			
	000/	>20%	>50%	>100% to	10500/	IF	RB	SA		
R million	≤20% RW	to 50% RW	to 100% RW	<1250% RW	1250% RW	RBA	SFA	SSFA	1250%	
Securitisation										
4. – Retail	3 465	329		627	892	31	_	4 390	892	
5. – Corporate	62	3 026	-	-	-	_	62	3 026	_	
Total	3 527	3 355	-	627	892	31	62	7 416	892	

^{*} There were no resecuritisations or synthetic securitisations (rows 6-15) during the period.

		As at 31 December 2016*									
		RWA by regulatory approach Capital charge after cap									
	RBA SFA		SA		IF	RB	SA				
			SSFA	1250%	RBA	SFA	SSFA	1250%			
	7	100	3 241	18 011	1	11	348	1 936			
	_	10	1 012	_	_	1	109				
	7	110	4 253	18 011	1	12	457	1 936			

	As at 31 December 2015*								
	RWA by regula	atory approach	1	Capital charge after cap					
IF	RB	SA		IF	RB	SA			
RBA	SFA	SSFA	1250%	RBA	SFA	SSFA	1250%		
7	-	2 463	11 839	1	-	265	1 273		
_	370	652	_	_	40	70	_		
7	370	3 115	11 839	1	40	335	1 273		

	As at 30 June 2016*								
	RWA by regula	atory approach	1		Capital char	ge after cap			
IF	RB	SA		IF	RB	SA			
RBA	SFA	SSFA	1250%	RBA	SFA	SSFA	1250%		
7	_	3 045	11 150	1	_	327	1 199		
_	6	911	_	_	1	98	_		
7	6	3 956	11 150	1	1	425	1 199		

SEC4: TRADITIONAL SECURITISATION EXPOSURES IN THE BANKING BOOK AND ASSOCIATED CAPITAL REQUIREMENTS - BANK ACTING AS INVESTOR

			As at	31 December 2	2016*		
	Exposure values by RW bands**	Exposure value		RWA by regula	atory approach	Capital char	ge after cap
	≤20%	IRB		IRB		IRB	
R million	RW	RBA	SFA	RBA	SFA	RBA	SFA
Securitisation							
4. – Retail	17 914	101	17 813	11	1 322	1	142
5. – Corporate	_			-	-	-	-
Total	17 914	101	17 813	11	1 322	1	142

There were no resecuritisations or synthetic securitisations (rows 6-15) during the period.

^{**} There were no exposures in the >20% to 50%, >50% to 100%, >100% to <1250% and 1250% RW bands.

** There were no exposures under the standardised approach or to unrated notes risk weighted at 1250% during the period.

		As at 31 December 2015*								
	Exposure values by RW bands**	Exposure value appro		RWA by regula	atory approach	Capital char	ge after cap			
	≤20%	IR	lB	IRB		IRB				
R million	RW	RBA	SFA	RBA	SFA	RBA	SFA			
Securitisation										
4. – Retail	10 232	353	9 879	51	1 571	5	169			
5. – Corporate		_	_	_	_	_	_			
Total	10 232	353	9 879	51	1 571	5	169			

^{*} There were no resecuritisations or synthetic securitisations (rows 6 – 15) during the period.

** There were no exposures in the >20% to 50%, >50% to 100%, >100% to <1250% and 1250% RW bands.

** There were no exposures under the standardised approach or to unrated notes risk weighted at 1250% during the period.

		As at 30 June 2016*								
	Exposure values by RW bands**	Exposure value appro		RWA by regula	atory approach	Capital char	ge after cap			
	≤20%	IR	B	IRB		IRB				
R million	RW	RBA	SFA	RBA	SFA	RBA	SFA			
Securitisation										
4. – Retail	14 994	353	14 641	51	2 328	5	250			
5. – Corporate		_	_	_	_	_	_			
Total	14 994	353	14 641	51	2 328	5	250			

^{*} There were no resecuritisations or synthetic securitisations (rows 6 – 15) during the period.

** There were no exposures in the >20% to 50%, >50% to 100%, >100% to <1250% and 1250% RW bands.

** There were no exposures under the standardised approach or to unrated notes risk weighted at 1250% during the period.

MARKET RISK IN THE TRADING BOOK

INTRODUCTION AND OBJECTIVES

Market risk in the trading book is the risk of adverse revaluation of any financial instrument as a consequence of changes in market prices or rates.

The group distinguishes between **market risk** in **the trading book** and **non-traded market risk**. The following diagram describes the traded and non-traded market risk elements and the governance bodies responsible for managing these risks

TRADED AND NON-TRADED MARKET RISK ELEMENTS

	MARKET	NON-TRADED MARKET RISK				
Traded equity and credit risk	Commodity risk	Interest rate risk in the trading book	Interest rate risk in the RMB banking book managed as trading book	Interest rate risk in the banking book	Structural foreign exchange risk	
Management						
	RMB RISK, CAPI Market risk metri					
				Management of	GROUP TREASURY IRRBB, group macrotion and hedging strate	
Independent overs		ND INVESTMENT RI	SK COMMITTEE (M	IRC)		
					RISK AND COMPLIA AND ALCCO COMMI	

Market risk in the trading book includes interest rate risk in the trading book, traded equity and credit risk, commodity risk, foreign exchange risk and interest rate risk in the RMB banking book, which is managed as part of the trading book.

Market risk in the trading book activities

The group's market risk in the trading book emanates mainly from the provision of hedging solutions for clients, market-making activities and term-lending products and is taken and managed by RMB. The relevant businesses in RMB function as centres of expertise for all market risk-related activities. Market risk is managed and contained within the group's appetite.

The group's objective is to manage and control market risk exposures, based on three pillars, each with its own objective:

- strategic business mix ensure that RMB's current and future strategies, spanning various activities and geographies, achieve its growth and return targets within acceptable levels of risk;
- financial performance optimise portfolio performance and manage the interplay between growth and ROE given the differentiated risk/ return characteristics of activities; and
- risk and capital impact only accept an appropriate level of risk commensurate with performance objectives and the market opportunity.

The nature of hedging and risk mitigation strategies performed across the group corresponds to the market risk management instruments available in each operating jurisdiction. These strategies range from the use of traditional market instruments, such as interest

rate swaps, to more sophisticated hedging strategies to address a combination of risk factors arising at portfolio level.

The group uses global models and operating platforms for measuring market risk. These operating platforms support regulatory reporting, external disclosures and internal management reporting for market risk. The risk infrastructure incorporates the relevant legal entities and business units, and provides the basis for reporting on risk positions, capital adequacy and limit utilisation to the relevant governance and management functions on a regular and *ad hoc* basis. Established units in risk management functions assume responsibility for measurement, analysis and reporting of risk while promoting sufficient quality and integrity of risk-related data. The VaR and sVaR calculations and aggregations are performed daily by these operating platforms and risk measures are compared to limits. Breaches are escalated to senior management.

Interest rate risk in the banking book activities

Management and monitoring of interest rate risk the banking book is split between the RMB banking book and the remaining domestic banking book. RMB manages the majority of its banking book under the market risk framework, with risk measured and monitored in conjunction with the trading book and management oversight provided by the market and investment risk committee. The RMB banking book interest rate risk exposure was R80.2 million on a 10-day ETL basis at 31 December 2016 (December 2015: R59.7 million; June 2016: R95.3 million). Interest rate risk in the remaining domestic banking book is discussed in the *interest rate risk in the banking book* section.

Period under review and focus areas

Pe	riod under review	Risk management focus areas				
0 0	Overall diversified levels of market risk increased over the period. There are no significant concentrations in the portfolio. The increase in market risk across the group emanated mainly from the local portfolio.	0	Given the impending regulatory changes regarding BCBS's documents, Fundamental review of the trading book and principles for effective risk data aggregation and risk reporting (BCBS 239), RMB is reviewing the current target operating platform for market risk, taking into account platform capabilities across both front office and risk areas, and aligning market risk processes, analysis and reporting in line with these requirements.			

ORGANISATIONAL STRUCTURE AND GOVERNANCE

MARKET RISK IN THE TRADING BOOK GOVERNANCE STRUCTURE

FIRSTRAND BOARD	
Second line of risk control	
RCC COMMITTEE	
Reviews reports on:	
ERM	
 independent view of the market risk profile; oversight of market risk management practices; and monitors implementation of the group's market and investment risk framework. 	
MODEL RISK AND VALIDATION COMMITTEE MARKET AND INVESTMENT RISK COMMITTEE ((MIRC)
 → validation and approval of changes to internal VaR models for regulatory and economic capital. → oversight of market risk exposures, profile and management across the group; and → monitors implementation of the market risk framework. The market risk fra (a subframework or prescribes the gov structures, roles, roles, roles and lines of accour market risk management across the group; and	of BPRMF) rernance esponsibilities ntability for
First line of risk control RMB FINANCIAL RESOURCE MANAGEMEN	IT BOARD
MARKET RISK TECHNICAL COMMITTEE → defines RMB's portfolio and risk/reward appetite levels	
 → reviews and approves market risk models and → allocates limits and ensures that business remains with levels; and 	hin approved appetite
curve changes. • approves strategies for market risk activities across the	e group.
1	
Global market fund solutions risk oversight committee provides independent oversight of all risk types within RMR's or	
oversight committee → provides independent oversight of all risk types within RMB's operation of all risk types withi	
Third line of control GIA → assesses the adequacy and effectiveness of market risk controls; a → identifies risk control shortcomings and recommends corrective act	

Market risk reporting

High quality risk reporting enables senior management and governance committees to make well considered decisions to achieve objectives and manage key risks. The market risk reporting process aims to accurately and transparently depict RMB's risk profile. The group regularly reviews the content of market risk reports to ensure continuous relevance, and to ensure that reporting adequately and accurately reflects the group's market risk profile. Market risk reporting follows the market risk governance structure on the previous page. The frequency of each report aligns with the timing of governance committee meetings and content is driven by information requirements of the target audience.

Market risk reports are provided to the RMB RCC committee, the RMB FRM board and MIRC on a quarterly basis. Daily and monthly reports on market risk movements, risk factors and limit utilisation are provided to senior management and executive committees as appropriate. Information included in market risk reports includes, but is not limited to:

- ETL/VaR and sVaR, and specific risks;
- utilisation of the above against predefined limits;
- concentrations and risk build-ups;
- governance issues, such as limit breaches;
- risk factor sensitivities, stress test results and earnings volatility;
- onominal exposures;
- profit and loss attribution;
- risk and profit trends; and
- internal model back testing results.

INTERNAL MODELS APPROACH (IMA): DOMESTIC TRADING PORTFOLIOS

The internal VaR model for general market risk was approved by the SARB for domestic trading units. For all international entities, the standardised approach is used for regulatory market risk capital purposes. Economic capital for market risk is calculated using liquidity-adjusted internal ETL plus an assessment of specific risk.

The risk related to market risk-taking activities is measured as the higher of the group's ETL measure (as a proxy for economic capital) and regulatory capital based on VaR plus sVaR. The 10-day holding period used in calculation of a 10-day VaR, 10-day sVaR and ETL is directly modelled on the group's operating platform.

Market risk in the trading book for the group is taken and managed by RMB using risk limits approved by the RMB FRM board and the market and investment risk committee (MIRC). VaR limits are set for portfolios and risk types, with market liquidity being a primary factor in determining the level of limits set. FirstRand Bank is responsible for setting market risk management policies and measurement techniques. The market risk limits are governed according to the market risk framework. The VaR model is designed to take into account a comprehensive set of risk factors across all asset classes.

VaR enables the group to apply a consistent measure across all trading desks and products. It allows a comparison of risk in different businesses and provides a means of aggregating and netting positions in a portfolio to reflect correlations and offsets between different asset classes. Furthermore, it facilitates comparisons of market risk both over time and against daily trading results.

QUANTIFICATION OF RISK EXPOSURES

ETL	The internal measure of risk is an ETL metric at the 99% confidence level under the full revaluation methodology using historical risk factor scenarios (historical simulation method). In order to accommodate the regulatory stress loss imperative, the set of scenarios used for revaluation of the current portfolio comprises historical scenarios which incorporate both the past 260 trading days and at least one static period of market distress. The ETL is liquidity adjusted for illiquid exposures. Holding periods, ranging between 10 and 90 days or more, are used in the calculation and are based on an assessment of distressed liquidity of portfolios.
VaR and sVaR	VaR is calculated at the 99%, 10-day actual holding period level using data from the past 260 trading days. For regulatory capital purposes, this is supplemented with a sVaR, calibrated to a one-year period of stress observed in history (2008/2009). The choice of period 2008/2009 is based on the assessment of the most volatile period in recent history.
	sVaR calculations are based on the same systems, trade information and processes as VaR calculations. The only difference is that sVaR is supplemented with historical risk factor scenarios (historical simulation method) as an input for the full revaluation methodology. The historical factor scenarios include historical market data from a period of significant financial stress, characterised by high volatilities in recent history. When simulating potential movements in risk factors, both absolute and relative risk factors are used. VaR calculations over a holding period of one day are used as an additional tool in the assessment of market risk. The updating of historical scenarios is kept within the one month regulatory requirement and is monitored on a daily basis.

The group's VaR should be interpreted in light of the limitations of this methodology, namely:

- historical simulation VaR may not provide an accurate estimate of future market moves;
- the use of a 99% confidence level does not reflect the extent of potential losses beyond that percentile ETL is a better measure to quantify losses beyond that percentile (but still subject to similar limitations as stated for VaR);
- the use of a 1-day time horizon is not a fair reflection of profit or loss for positions with low trading liquidity, which cannot be closed out or hedged in one day;
- as exposures and risk factors can change during daily trading, exposures and risk factors are not necessarily captured in the VaR calibration which uses end-of-day trading data; and
- where historical data is not available, time series data is approximated or backfilled using appropriate quantitative methodologies. Use of proxies is, however, limited.

These limitations mean that the group cannot guarantee that losses will not exceed VaR. Recognising its limitations, VaR is supplemented with stress testing to evaluate the potential impact on portfolio values of more extreme, though plausible, events or movements in a set of financial variables.

The group does not apply the incremental risk charge or comprehensive risk capital charge approach.

Risk concentrations

Risk concentrations are controlled by means of appropriate ETL sublimits for individual asset classes and the maximum allowable exposure for each business unit. In addition to the general market risk limits described above, limits covering obligor-specific risk and event risk utilisation against these limits are monitored continuously, based on the regulatory building block approach.

RWA flow statement for IMA market risk exposures

Regulatory capital for domestic trading units is based on the internal VaR model supplemented with sVaR. VaR is calculated at the 99%, 10-day actual holding period level using data from the past 260 trading days and sVaR is calculated using a pre-defined static stress period (2008/2009). VaR calculations over a holding period of one day are used as an additional tool in the assessment of market risk.

The group's subsidiaries in the rest of Africa and foreign branches are measured using the regulatory standardised approach for regulatory capital and an internal stress loss methodology for internal measurement of risk. Capital is calculated for general and specific market risk using the Basel III standardised duration methodology.

The following flow statement explains the variations in the market RWA determined under IMA.

MR2: RWA FLOW STATEMENT OF MARKET RISK EXPOSURES UNDER IMA*

Rr	nillion	VaR	Stessed VaR	Total RWA
	RWA at 30 September 2016	9 348	6 087	15 435
2.	Movement in risk levels	(52)	1 783	1 731
3.	Model updates/changes	_	-	_
4.	Methodology and policy	_	_	_
5.	Acquisitions and disposals	_	_	-
6.	Foreign exchange movements	_	-	-
7.	Other	_	_	_
8.	RWA at 31 December 2016	9 296	7 871	17 167

^{*} The group does not use the incremental risk charge and comprehensive risk measure approaches.

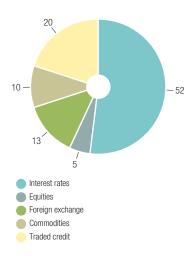
The movement in market RWA during the six months ended 31 December 2016 is due to an increase in market risk positions.

VaR exposure per asset class for traded market risk

The following chart shows the distribution of exposures per asset class across the group's activities at 31 December 2016 based on the VaR methodology. The interest rate asset class represented the most significant exposure at 31 December 2016.

TRADED MARKET RISK VAR EXPOSURE PER ASSET CLASS FOR THE GROUP EXCLUDING SUBSIDIARIES IN THE REST OF AFRICA

%



IMA values

Total market risk is split between traded and non-traded market risk in the following tables. Traded market risk represents the portfolios that are designated as trading book for regulatory reporting. Non-traded market risk represents the portfolios that are structural in nature and are used to manage banking book risk. The non-traded market risk portfolio is directly influenced by the foreign exchange markets and, therefore, still form part of the group's total market risk and are included in this disclosure.

MR3: IMA VALUES FOR TRADED MARKET RISK*

		F	FirstRand Bank (SA)**			
Rr	million	As at 31 December 2016	As at 31 December 2015	As at 30 June 2016		
	VaR (10-day 99%)					
1.	Maximum value	489	147	241		
2.	Average value	250	76	116		
3.	Minimum value	154	41	41		
4.	Period end	217	147	227		
	sVaR (10-day 99%)					
5.	Maximum value	302	151	151		
6.	Average value	106	105	103		
7.	Minimum value	69	69	64		
8.	Period end	107	116	99		
	VaR (1-day 99%)					
	Maximum value	126	121	121		
	Average value	53	36	43		
	Minimum value	25	24	24		
	Period end	36	39	85		

^{*} The group does not use the incremental risk charge (rows 9-12) and comprehensive risk measure (rows 13-17) approaches.

^{**} FirstRand Bank (SA) excludes foreign branches.

MR3: IMA VALUES FOR NON-TRADED MARKET RISK*

		F	FirstRand Bank (SA)**			
Rr	nillion	As at 31 December 2016	As at 31 December 2015	As at 30 June 2016		
	VaR (10-day 99%)					
1.	Maximum value	199	71	137		
2.	Average value	88	40	68		
3.	Minimum value	12	28	28		
4.	Period end	165	71	89		
	sVaR (10-day 99%)					
5.	Maximum value	280	174	224		
6.	Average value	135	119	153		
7.	Minimum value	40	95	95		
8.	Period end	232	174	144		
	VaR (1-day 99%)					
	Maximum value	99	41	77		
	Average value	44	21	36		
	Minimum value	6	14	14		
	Period end	82	41	48		

^{*} The group does not use the incremental risk charge (rows 9-12) and comprehensive risk measure (rows 13-17) approaches.

MR3: IMA VALUES FOR TOTAL MARKET RISK*

			FirstRand		FirstRand Bank (SA)**			
Rr	nillion	As at 31 December 2016	As at 31 December 2015	As at 30 June 2016	As at 31 December 2016	As at 31 December 2015	As at 30 June 2016	
	VaR (10-day 99%)							
1.	Maximum value	387	171	199	377	95	170	
2.	Average value	210	88	108	198	67	85	
3.	Minimum value	114	67	67	101	47	47	
4.	Period end	177	112	172	158	91	147	
	sVaR (10-day 99%)							
5.	Maximum value	313	197	222	313	197	222	
6.	Average value	150	124	145	150	124	145	
7.	Minimum value	87	75	75	87	75	75	
8.	Period end	288	183	146	288	183	146	
	VaR (1-day 99%)							
	Maximum value				90	193	114	
	Average value				56	42	48	
	Minimum value				32	29	29	
	Period end				90	53	67	

^{*} The group does not use the incremental risk charge (rows 9 – 12) and comprehensive risk measure (rows 13 – 17) approaches. FirstRand Limited VaR numbers include the foreign branches but exclude the subsidiaries in the rest of Africa which is reported on the standardised approach for market risk. The sVaR numbers relates to FirstRand Bank (SA) only.

The maximum VaR and sVaR numbers increased from December 2015 to December 2016 for the following reasons:

- The models used to quantify VaR include actual market moves from the last 260 trading days. The 2016 scenarios included the full dataset of the volatile markets of December 2015 and beyond. As a consequence, the 2016 models are more risk sensitive to exposures than the 2015 models, which impacts the average and maximum value of risk reported.
- For a small number of days during the period under review, RMB ran a higher maximum risk position than during the volatile period in 2015. This impacts the maximum VaR and sVaR numbers.

The average sVAR numbers, which use scenarios from the 2008/2009 period only, show that actual risk taking throughout the year was

^{**} FirstRand Bank (SA) excludes foreign branches.

^{**} FirstRand Bank (SA) excludes foreign branches.

comparable between the two periods. If the traded market risk portfolio were measured on an sVAR basis alone, the risk appetite would have remained consistent to the previous periods.

Stress testing

Stress testing provides an indication of potential losses that could occur under extreme market conditions. The ETL assessment provides a view of risk exposures under stress conditions.

Additional stress testing, to supplement the ETL assessment, is conducted using historical market downturn scenarios and includes the use of what-if hypothetical and forward-looking simulations. Stress test calibrations are reviewed regularly to ensure that results are indicative of the possible impact of severely distressed and event-driven market conditions. Stress and scenario analyses are regularly reported to and considered by the relevant governance bodies.

Earnings volatility

A key element of the group's risk appetite framework is an assessment of potential earnings volatility that may arise from underlying activities. Earnings volatility for market risk is quantified by

subjecting key market risk exposures to predetermined stress conditions, ranging from business-as-usual stress through severe stress and event risks.

In addition to assessing the maximum acceptable level of earnings volatility, stress testing is used to understand sources of earnings volatility and highlight unused capacity within the group's risk appetite. Market risk earnings volatility is calculated and assessed on a quarterly basis.

Regulatory back testing

Back testing is performed to verify the predictive ability of the VaR model and ensure ongoing appropriateness. The back testing process is a regulatory requirement and seeks to estimate the performance of the regulatory VaR model. Performance is measured by the number of exceptions to the model, i.e. net trading profit and loss in one trading day is greater than the estimated VaR for the same trading day. The group's procedures could be underestimating VaR if exceptions occur regularly (a 99% confidence interval indicates that one exception will occur in 100 days).

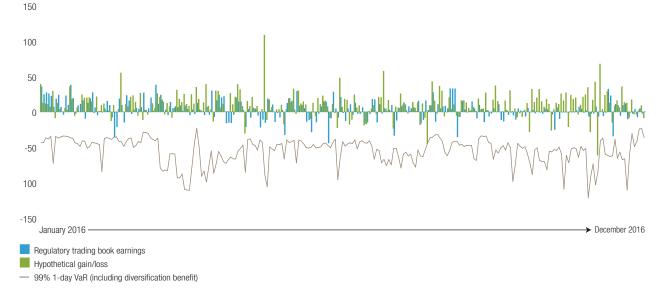
The regulatory standard for back testing is to measure daily actual and hypothetical changes in portfolio value against VaR at the 99th

percentile (one-day holding period equivalent). The number of breaches over a period of 250 trading days is calculated, and, should the number exceed that which is considered appropriate, the model is recalibrated.

Back testing: daily regulatory trading book earnings versus 1-day, 99% VaR

The group tracks its daily domestic earnings profile as illustrated in the following chart. The earnings and 1-day VaR relate to the group's internal VaR model. Exposures were contained within risk limits during the period.

MR4: COMPARISON OF VaR ESTIMATES WITH GAINS AND LOSSES FOR FIRSTRAND BANK (SA) R million



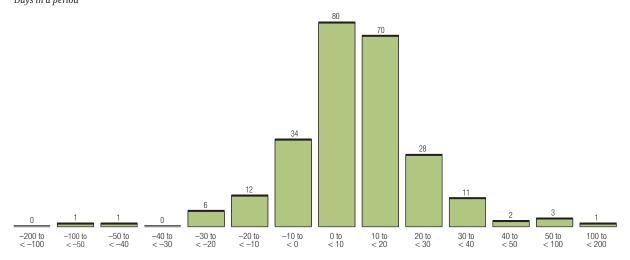
Trading book earnings exceeded 1-day VaR on one occasion during the period. This indicates a good quantification of market risk provided by the group's internal model.

Distribution of daily trading earnings from trading units

The following histogram shows the daily revenue for the group's domestic trading units for the period. The results are skewed towards profitability.

FIRSTRAND BANK (SA) DISTRIBUTION OF DAILY EARNINGS – FREQUENCY

Days in a period



STANDARDISED APPROACH: GENERAL AND SPECIFIC RISK

FirstRand Bank (India and London branches) and the group's subsidiaries in the rest of Africa have market risk exposure. The India and London branches are measured and managed on the same basis as the domestic portfolios for internal measurement, with regulatory capital based on the regulatory standardised approach. The subsidiaries in the rest of Africa are measured using the regulatory standardised approach for regulatory capital and an internal stress loss methodology for internal measurement of risk. Under the standardised approach, capital is calculated for general market risk and specific risk. Capital for specific risk is held in addition to general market risk capital.

General market risk capital	The general market risk capital calculation is based on the duration methodology. To calculate the general market risk capital charge, the long or short position (at current market value) of each debt instrument and other sources of interest rate exposure, including derivatives, is distributed into appropriate time-bands and maturity. The long and short positions in each time-band are then summed respectively and multiplied by the appropriate risk-weight factor (reflecting the price sensitivity of the positions to changes in interest rates) to determine the risk-weighted long and short market risk positions for each time band.
Specific risk regulatory capital	Specific risk accurately measures idiosyncratic risk not captured by general market risk measures for interest rate and equity risk, such as default, credit migration and event risks, and identifies concentrations in a portfolio. The total regulatory specific risk capital amount is the sum of equity specific risk and interest rate specific risk and is based on the Basel III standardised approach duration method.

The local balance sheet is exposed to interest rate specific risk and equity-specific risk. FirstRand Bank (India and London branches) and the group's subsidiaries in the rest of Africa are exposed to interest rate and foreign exchange (general risk). The capital is calculated on the simplified approach.

The following table represents the group's general market risk under the standardised approach and specific risk. At 31 December 2016, India and London branches held the majority of market risk exposures when compared to the subsidiaries in the rest of Africa collectively. The increase in interest rate specific risk emanates from the local balance sheet and is mainly a result of a build-up of inventory in the more actively traded bonds. Equity risk remained relatively unchanged. The change in general FX risk is a result of normal business operations.

Market risk was contained within acceptable stress loss limits and effectively managed across the subsidiaries during the period under review. Options are capitalised using the internal model approach (rows 5-7) (refer to *MR3: IMA values for traded market risk* table on page 130), and securitisations (row 8) are capitalised under the securitisation framework (refer to the *securitisation* section).

MR1: MARKET RISK UNDER STANDARDISED APPROACH - RISK WEIGHTED ASSETS

		RWA		
Rr	nillion	As at 31 December 2016	As at 31 December 2015	As at 30 June 2016
	Outright products			
1.	Interest rate risk	3 192	4 722	2 388
*****	– Specific risk	2 917	4 347	2 236
	– General risk	275	375	152
2.	Equity specific risk	325	320	495
	– Specific risk	324	305	452
	– General risk	1	15	43
3.	Foreign exchange general risk	1 706	2 150	1 437
	– Traded market risk	137	246	176
	– Non-traded market risk	1 569	1 904	1 261
4.	Commodity risk	_	_	_
9.	Total	5 223	7 192	4 320

NON-TRADED MARKET RISK

For non-traded market risk, the group distinguishes between **interest rate risk in the banking book** and **structural foreign exchange risk**. The following table describes how these risks are measured, managed and governed.

Risk and jurisdiction	Risk measure Managed by		Oversight
Interest rate risk in the banking book			
Domestic – FNB, WesBank and FCC	12-month earnings sensitivity; andeconomic sensitivity of open risk position.	Group Treasury	FCC Risk Management Group ALCCO
Subsidiaries in the rest of Africa and international branches	 12-month earnings sensitivity; and economic sensitivity of open risk position. 	In-country management	Group Treasury FCC Risk Management In-country ALCCOs International ALCCO
Structural foreign exchange			
Group	 total capital in a functional currency other than rand; impact of translation back to rand reflected in group's income statement; and foreign currency translation reserve value. 	Group Treasury	Group ALCCO

INTEREST RATE RISK IN THE BANKING BOOK

Introduction and objectives

IRRBB relates to the sensitivity of a bank's financial position and earnings to unexpected, adverse movements in interest rates.

Interest rate risk in the banking book originates from the differing repricing characteristics of balance sheet positions/instruments, yield curve risk, basis risk and client optionality embedded in banking book products.

The endowment effect, which results from a large proportion of non- and low-rate liabilities that fund variable rate assets, remains the primary driver of IRRBB and results in the group's earnings being vulnerable to interest rate cuts, or conversely benefiting from a hiking cycle.

IRRBB is an inevitable risk associated with banking and can be an important source of profitability and shareholder value. FirstRand continues to manage IRRBB on an earnings approach, with the aim to protect and enhance the group's earnings and economic value through the cycle within approved risk limit and appetite levels. The endowment hedge portfolio is managed dynamically taking into account the continuously changing macroeconomic environment.

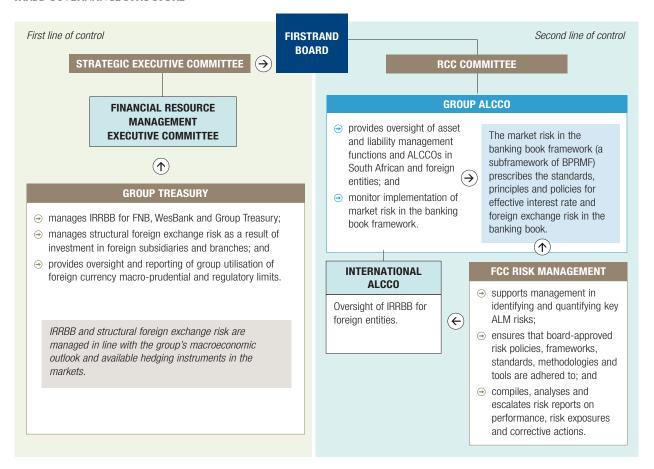
Strategic hedge positions are in place to protect the group's net interest margin. These hedges are actively monitored along with macroeconomic factors impacting rates in the domestic economy, as well as the foreign entities.

Period under review and focus areas

Pe	Period under review		k management focus areas
6	• The Monetary Policy Committee has not increased rates since the last 25 bps hike in March 2016.	0	The BCBS, through the task force for interest rate risk in the banking book, has published a more robust regulation for IRRBB which is due to be implemented by December 2017. The group is addressing these new requirements.
		0	Given current uncertainty about the level and direction of future interest rates, the endowment book remains actively managed.

Organisational structure and governance

IRRBB GOVERNANCE STRUCTURE



Assessment and management FirstRand Bank (South Africa)

The measurement techniques used to monitor IRRBB include NII sensitivity/earnings risk and NAV/economic value of equity (EVE). A repricing gap is also generated to better understand the repricing characteristics of the balance sheet. In calculating the repricing gap, all banking book assets, liabilities and derivative instruments are placed in gap intervals based on repricing characteristics. The repricing gap, however, is not used for management decisions.

The internal funds transfer pricing process is used to transfer interest rate risk from the franchises to Group Treasury. This process allows risk to be managed centrally and holistically in line with the group's macroeconomic outlook. Management of the resultant risk position is achieved by balance sheet optimisation or through the use of derivative transactions. Derivative instruments used are mainly

interest rate swaps, for which a liquid market exists. Where possible, hedge accounting is used to minimise accounting mismatches, thus ensuring that amounts deferred in equity are released to the income statement at the same time as movements attributable to the underlying hedged asset/liability. Interest rate risk from the fixed-rate book is managed to low levels with remaining risk stemming from timing and basis risk.

Foreign operations

Management of subsidiaries in the rest of Africa and international branches is performed by in-country management teams with oversight provided by Group Treasury and FCC Risk Management. For subsidiaries, earnings sensitivity measures are used to monitor and manage interest rate risk in line with the group's appetite. Where applicable, PV01 and ETL risk limits are also used for endowment hedges.

INTEREST RATE RISK MANAGEMENT AND ASSESSMENT

S		Underlying banking book balance sheet	
ANDATE	Risk measurement	Modelling and analytics	VIEW
FRAMEWORKS AND MANDATES	Dial, management	Risk transfer process	MACROECONOMIC VIEW
VORKS /	Risk management	Hedging strategies and portfolio management	ROECO
-RAME\	Risk monitoring	Daily risk and profit and loss	MAC
		Regulatory, financial, internal reporting	

Sensitivity analysis

A change in interest rates impacts both the earnings potential of the banking book (as underlying assets and liabilities reprice to new rates), as well as in the economic value/NAV of an entity (as a result of a change in the fair value of any open risk portfolios used to manage the earnings risk). The role of management is to protect both the financial performance as a result of a change in earnings and to protect the long-term economic value. To achieve this, both earnings sensitivity and economic sensitivity measures are monitored and managed within appropriate risk limits and appetite levels, considering the macroeconomic environment and factors which can cause a change in rates.

Earnings sensitivity

Earnings models are run on a monthly basis to provide a measure of the NII sensitivity of the existing banking book balance sheet to shocks in interest rates. Underlying transactions are modelled on a contractual basis and behavioural adjustments are applied where relevant. The calculation assumes a constant balance sheet size and product mix over the forecast horizon. A pass-through assumption is applied in relation to non-maturing deposits, which reprice at the group's discretion. This assumption is based on historical product behaviour.

The following tables show the 12-month NII sensitivity for sustained, instantaneous parallel 200 bps downward and upward shocks to interest rates. The decreased sensitivity is attributable to the level of strategic investments/hedges put in place to manage the margin impact of the capital and deposit endowment books through the cycle. Given current uncertainty about the level and direction of future interest rates, the endowment book remains actively managed.

Most of NII sensitivity relates to the endowment book mismatch. The group's average endowment book was R186 billion for the period. Total sensitivity in the bank is measured to rand rate moves and to local currency moves in the subsidiaries in the rest of Africa.

PROJECTED NII SENSITIVITY TO INTEREST RATE MOVEMENTS

	As at 31 December 2016		
	Change in projected 12-month NII		
R million	FirstRand Bank	Subsidiaries in the rest of Africa and foreign tRand Bank branches First	
Downward 200 bps	(1 411) (482)		(1 893)
Upward 200 bps	996	357	1 353

	As at 31 December 2015 Change in projected 12-month NII		
R million	FirstRand Bank	Subsidiaries in the rest of Africa and foreign branches	FirstRand
Downward 200 bps	(2 741)	(442)	(3 183)
Upward 200 bps	2 363	333	2 696

		As at 30 June 2016			
	Chanç	Change in projected 12-month NII			
R million	FirstRand Bank	Subsidiaries in the rest of Africa and foreign branches	FirstRand		
Downward 200 bps	(1 821)	(498)	(2 319)		
Upward 200 bps	1 475	381	1 856		

Assuming no change in the balance sheet and no management action in response to interest rate movements, an instantaneous, sustained parallel 200 bps decrease in interest rates would result in a reduction in projected 12-month NII of R1 893 million. A similar increase in interest rates would result in an increase in projected 12-month NII of R1 353 million.

Economic value of equity

An EVE sensitivity measure is used to assess the impact on the total NAV of the group as a result of a shock to underlying rates. Unlike the trading book, where a change in rates will impact fair value income and reportable earnings of an entity when a rate change occurs, the realisation of a rate move in the banking book will impact the distributable and non-distributable reserves to varying degrees and is reflected in the NII margin more as an opportunity cost/benefit over the life of the underlying positions. As a result, a purely forward-looking EVE measure applied to the banking book, be it a 1 bps shock or a full stress shock, is monitored relative to total risk limit, appetite levels and current economic conditions.

The EVE shock applied is based on regulatory guidelines and is a sustained, instantaneous parallel 200 bps downward and upward shock to interest rates. This is applied to risk portfolios as managed by Group Treasury which, as a result of the risk transfer through the internal funds transfer pricing process, captures relevant open risk positions in the banking book. This measure does not take into account the unrealised economic benefit embedded as a result of the banking book products which are not recognised at fair value.

The following table:

- highlights the sensitivity of banking book NAV as a percentage of total capital; and
- reflects a point-in-time view which is dynamically managed and can fluctuate over time.

BANKING BOOK NAV SENSITIVITY TO INTEREST RATE MOVEMENTS AS A PERCENTAGE OF TOTAL GROUP CAPITAL

	FirstRand Bank			FirstRand		
%	As at 31 December 2016	As at 31 December 2015	As at 30 June 2016	As at 31 December 2016	As at 31 December 2015	As at 30 June 2016
Downward 200 bps	3.37	0.95	0.11	2.57	0.69	0.08
Upward 200 bps	(2.93)	(1.13)	(0.07)	(2.23)	(0.82)	(0.05)

The increase in NAV sensitivity in the period is attributable to active management of strategic hedges. The group has increased its endowment book hedge position relative to the prior period in line with its view on macroeconomic conditions.

STRUCTURAL FOREIGN EXCHANGE RISK

Introduction and objectives

Foreign exchange risk is the risk of an adverse impact on the group's financial position and earnings as a result of movements in foreign exchange rates impacting balance sheet exposures.

Structural foreign exchange risk arises as a result of the group's offshore operations with a functional currency other than the South African rand, and is the risk of a negative impact on the group's financial position, earnings, or other key ratios as a result of negative translation effects.

The group is exposed to foreign exchange risk both as a result of on-balance sheet transactions in a currency other than the rand, as well as through structural foreign exchange risk from the translation of foreign entities' results into rand. The impact on equity as a result of structural foreign exchange risk is recognised in the foreign currency translation reserve balance, which is included in qualifying capital for regulatory purposes.

Structural foreign exchange risk as a result of net investments in entities with a functional currency other than rand is an unavoidable consequence of having offshore operations and can be a source both of investor value through diversified earnings, as well as unwanted volatility as a result of currency fluctuations. Group Treasury is responsible for actively monitoring the net capital invested in foreign entities, as well as the rand value of any capital investments and dividend distributions.

Period under review and focus areas

Period under review		Risk management focus areas		
0	Continued to strengthen principles regarding the management of foreign exchange positions and funding of the group's foreign entities.	0	Continue to assess and review the group's foreign exchange exposures and enhance the quality and frequency of reporting.	
•	Monitored the net open forward position in foreign exchange (NOFP) exposure against limits in each of the group's foreign entities.			

Organisational structure and governance

Reporting and management for the group's foreign exchange exposure and macro-prudential limit utilisation is centrally owned by Group Treasury as the clearer of all group currency positions. Group Treasury is also responsible for oversight of structural foreign exchange risk with reporting through to group ALCCO, a subcommittee of the RCC committee. Refer to the governance structure in the *interest rate risk in the banking book* section.

Assessment and management

The ability to transact on-balance sheet in a currency other than the home currency (rand) is governed by in-country macro-prudential and regulatory limits. In the group, additional board limits and management appetite levels are set for this exposure. The impact of any residual on-balance positions is managed as part of market risk reporting (see *market risk in the trading book* section). Group Treasury is responsible for consolidated group reporting and utilisation of these limits against approved limits and appetite levels.

Foreign exchange risk in the banking book comprises funding and liquidity management, and risk mitigating activities. To minimise funding risk across the group, foreign currency transactions are matched where possible, with residual liquidity risk managed centrally by Group Treasury, and usually to low levels (see *funding and liquidity* section). Structural foreign exchange risk impacts both the current NAV of the group as well as future profitability and earnings potential. Economic hedging is undertaken where viable, given market constraints and within risk appetite levels. Where possible, hedge accounting is applied. Any open hedges are included as part of *market risk in the trading book*.

Net structural foreign exposures and sensitivity

The following table provides an overview of the group's exposure to entities with functional currencies other than rand. There were no significant structural hedging strategies in the current financial year.

NET STRUCTURAL FOREIGN EXPOSURES

	As at 31 Dec	ember 2016	As at 31 December 2015		As at 30 June 2016	
R million	Exposure	Impact on equity from 15% currency translation shock	Exposure	Impact on equity from 15% currency translation shock	Exposure	Impact on equity from 15% currency translation shock
Functional currency						
Botswana pula	3 422	513	2 700	405	3 714	557
United States dollar	2 964	445	3 377	507	4 016	602
Sterling	1 933	290	2 761	414	2 308	346
Nigerian naira	1 003	150	1 675	251	1 131	170
Australian dollar	981	147	1 216	182	1 454	218
Zambian kwacha	783	117	804	121	792	119
Mozambican metical	553	83	107	16	652	98
Indian rupee	727	109	849	127	737	111
Ghanaian cedi	435	65	547	82	493	74
Tanzanian shilling	783	117	901	135	774	116
Common Monetary Area (CMA) countries*	4 804	721	4 766	715	5 345	802
Total	18 388	2 757	19 703	2 955	21 416	3 213

^{*} Currently Namibia, Swaziland and Lesotho are part of the CMA. Unless these countries decide to exit the CMA, rand volatility will not impact these entities' rand reporting values.

EQUITY INVESTMENT RISK

INTRODUCTION AND OBJECTIVES

Equity investment risk is the risk of an adverse change in the fair value of an investment in a company, fund or listed, unlisted or bespoke financial instruments.

Equity investment risk in the group arises primarily from equity exposures from private equity and investment banking activities in RMB, e.g. exposures to equity risk arising from principal investments or structured lending. Where appropriate and attractive investment opportunities arise in FNB through lending activities to medium corporate clients, there is a memorandum of understanding between RMB and FNB to co-invest in the entity, provided the arrangement is within approved mandates and policies and is aligned with group strategy.

Other sources of equity investment risk include strategic investments held by WesBank, FNB and FCC. These investments are, by their nature, core to the individual businesses' daily operations and are managed as such.

Ashburton Investments, the group's asset management business, also contributes to equity investment risk. This risk emanates from long-term or short-term seeding activities both locally and offshore. Short-term seeding of new traditional and alternative funds exposes the group to equity investment risk until the funds reach sufficient scale for sustainable external distribution. The timeline for short-term seeding is defined in the business cases for the funds and typically ranges between one and three years.

Long-term seeding is provided if there is alignment with the business strategy, the business case meets the group's internal return hurdle

requirements and the liquidity and structure of the funds imply that an exit will only be possible over a longer period, aligned with the interests of other investors in these funds. Long-term investments, such as investment in private equity and real estate, will only be exited at the end of the investment horizon of the funds, and this maturity period typically ranges from five to eight years post investment into the fund.

Regulatory developments

The BCBS published the standard on *Capital requirements for banks'* equity investments in funds in December 2013 which requires banks' equity investment risk exposures in funds to be risk weighted using the following approaches with varying degrees of risk sensitivity:

- look-through approach;
- mandate-based approach; and
- fall-back approach.

To ensure that banks have appropriate incentives to enhance the management of their exposures, the degree of conservatism increases with each successive approach. The BCBS also incorporated a leverage adjustment to the RWAs derived from the above approaches to appropriately reflect a fund's leverage. The date of implementation of this standard in South Africa is still to be confirmed. The group is refining its processes to comply with the standard. The overall quality of the investment portfolio remains acceptable and is within risk appetite.

Period under review and focus areas

Period under review

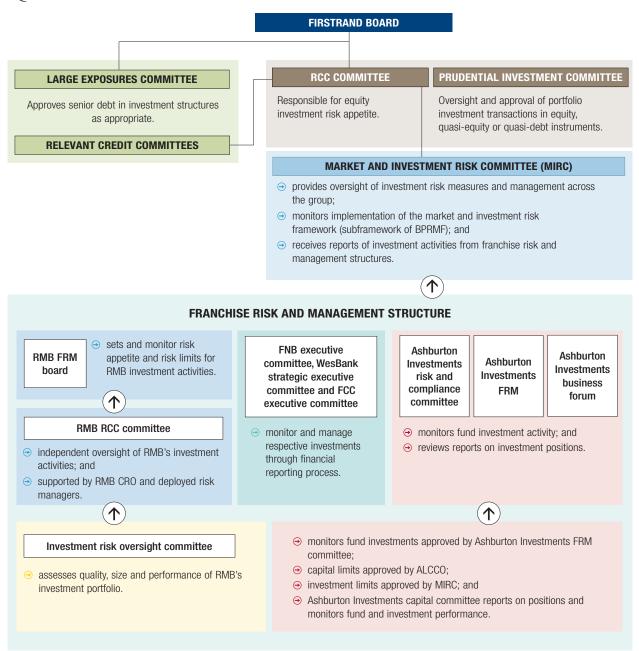
- Private Equity concluded a few acquisitions with no significant disposals.
- The unrealised value of RMB Private Equity's portfolio remained relatively unchanged at R4.4 billion (December 2015: R4.5 billion; June 2016: R4.2 billion).
- Ashburton Investments improved risk reporting capabilities on all its regulated funds and launched five FNB Horizon Funds with most seeding capital returned. During the period there was no increase in equity investment risk exposures.

Risk management focus areas

- Continue to focus on non-performing exposures, particularly in the RMB Resources portfolio which is being wound down, and realising value from the existing portfolio.
- Prepare for the introduction of the new BCBS standard relating to the treatment of investment in funds.
- Ashburton Investments will implement systems to broaden automation of risk reporting on funds and to meet credit risk reporting requirements of its liability driven investment mandates.

ORGANISATIONAL STRUCTURE AND GOVERNANCE

EQUITY INVESTMENT RISK GOVERNANCE STRUCTURE



ASSESSMENT AND MANAGEMENT

Management of exposures

The equity investment risk portfolio is managed through a rigorous evaluation and review process from inception to exit of a transaction. All investments are subject to a comprehensive due diligence, during which a thorough understanding of the target company's business, risks, challenges, competitors, management team and unique advantage or value proposition is developed.

For each transaction, an appropriate structure is put in place which aligns the interests of all parties involved through the use of incentives and constraints for management and the selling party. Where appropriate, the group seeks to take a number of seats on the company's board and maintains close oversight through monitoring of operations and financial discipline.

The investment thesis, results of the due diligence process and investment structure are discussed at the investment committee before final approval is granted. In addition, normal biannual reviews are performed for each investment and crucial parts of these reviews, such as valuation estimates, are independently peer reviewed.

Recording of exposures – accounting policies

IAS 39 requires equity investments to be classified as financial assets at fair value through profit or loss, or available-for-sale financial assets

Consistent with the group's accounting policies, the consolidated financial statements include the assets, liabilities and results of operations of all equity investments over which the group has control of the relevant activities and the ability to use that control to affect the variable returns received from the entity.

Equity investments in associates and joint ventures are included in the consolidated financial statements using the equity accounting method. Associates are entities where the group holds an equity interest of between 20% and 50%, or over which it has the ability to exercise significant influence, but does not control. Joint ventures are entities in which the group has joint control over the relevant activities of the joint venture through a contractual agreement.

Measurement of risk exposures and stress testing

Risk exposures are measured in terms of potential loss under stress conditions. A series of standardised stress tests are used to assess potential losses under current market conditions, adverse market conditions, as well as severe stress/event risk. These stress tests are conducted at individual investment and portfolio level.

In the private equity portfolio, the group targets an investment profile that is diversified along a number of pertinent dimensions, such as geography, industry, investment stage and vintage.

Economic and regulatory capital calculations are augmented by regular stress tests of market values and underlying drivers of valuation, e.g. company earnings, valuation multiples and assessments of stress resulting from portfolio concentrations.

Regulatory and economic capital

The simple risk-weighted method under the market-based approach (250% (Basel III investments in financial entities), 300% (listed) or 400% (unlisted)) is applied with the scalar (where appropriate) for the quantification of regulatory capital. Under the Regulations, the risk weight applied to investments in financial, banking and insurance institutions is subject to the aggregate and individual value of the group's shareholding in these investments and also in relation to the group's qualifying CET1 capital. Shareholdings in investments are bucketed depending on the percentage held.

For economic capital purposes, an approach using market value shocks to the underlying investments is used to assess economic capital requirements for unlisted investments after taking any unrealised profits into account.

Where price discovery is reliable, the risk of listed equity investments for ongoing operations is measured based on a 90-day ETL calculated using RMB's internal market risk model. The ETL risk measure is supplemented by a measure of the specific (idiosyncratic) risk of the individual securities per the specific risk measurement methodology.

EQUITY INVESTMENT RISK VALUATIONS

During the period, the private equity portfolio had no significant disposals. The unrealised value of RMB's private equity investment portfolio remained relatively unchanged at R4.4 billion (December 2015: R4.5 billion; June 2016: R4.2 billion).

The table below shows the equity investment risk exposure and sensitivity. The 10% sensitivity movement is calculated on the carrying value of investments excluding investments subject to the ETL process and includes the carrying value of investments in associates and joint ventures.

INVESTMENT RISK EXPOSURE AND SENSITIVITY OF INVESTMENT RISK EXPOSURE

R million	As at 31 December 2016	As at 31 December 2015	As at 30 June 2016
Listed investment risk exposure included in the equity investment risk ETL process	64	45	66
ETL on above equity investment risk exposures	4	10	5
Estimated sensitivity of remaining investment balances			
Sensitivity to 10% movement in market value on investment fair value	343	312	367
Cumulative gains realised from sale of positions in the banking book during the period	125	906	1 416

CR10: EQUITIES UNDER THE SIMPLE RISK WEIGHT METHOD

		016			
R million	On-balance sheet amount	Off-balance sheet amount	Risk weight	Exposure amount	RWA
Categories					
Exchange-traded equity exposures*	654	_	300%	654	2 080
Private equity exposures*	5 439	534	400%	5 973	25 327
Financial and insurance entities	3 501	_	250%	3 501	8 753
Total	9 594	534		10 128	36 160

^{*} Includes 6% scalar.

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		As at 30 June 2016					
R million	On-balance sheet amount	Off-balance sheet amount**	Risk weight	Exposure amount	RWA		
Categories							
Exchange-traded equity exposures*	595	_	300%	595	1 892		
Private equity exposures*	5 578	578	400%	6 156	26 101		
Financial and insurance entities	3 293	_	250%	3 293	8 233		
Total	9 466	578		10 044	36 226		

^{*} Include 6% scalar.

^{**} The June 2016 private equity exposure was split to show the off-balance sheet amount.

The following tables include the investment valuations and regulatory capital requirements.

INVESTMENT VALUATIONS AND ASSOCIATED REGULATORY CAPITAL REQUIREMENTS

	As at 31 December 2016		
R million	Publicly quoted investments	Privately held	Total
Carrying value of investments	654	9 474	10 128
Per risk bucket			***************************************
250% - Basel III investments in financial entities	_	3 501	3 501
300% – listed investments	654	-	654
400% – unlisted investments	-	5 973	5 973
Latent revaluation gains not recognised in the balance sheet*	_	1 516	1 516
Fair value	654	10 990	11 644
Total unrealised gains recognised directly in the balance sheet through equity instead			
of the income statement*	_	170	170
Capital requirement**	216	3 536	3 752

^{*} These unrealised gains or losses are not included in Tier 1 or Tier 2 capital.

^{**} Capital requirement calculated at 10% of RWA (excluding the bank-specific individual capital requirement) and includes capital on investments in financial entities

	As at 31 December 2015			
R million	Publicly quoted investments	Privately held	Total	
Carrying value of investments	575	10 253	10 828	
Per risk bucket	•••			
250% – Basel III investments in financial entities	_	3 264	3 264	
300% – listed investments	575	_	575	
400% – unlisted investments	_	6 989	6 989	
Latent revaluation gains not recognised in the balance sheet*	_	4 729	4 729	
Fair value	575	14 982	15 557	
Total unrealised gains recognised directly in the balance sheet through equity instead of the income statement*	_	168	168	
Capital requirement**	183	3 779	3 962	

^{*} These unrealised gains or losses are not included in Tier 1 or Tier 2 capital.

^{**} Capital requirement calculated at 10% of RWA (excluding the bank-specific individual capital requirement) and includes capital on investments in financial entities.

	As at 30 June 2016			
R million	Publicly quoted investments	Privately held	Total	
Carrying value of investments	595	9 449	10 044	
Per risk bucket				
250% – Basel III investments in financial entities	_	3 293	3 293	
300% – listed investments	595	-	595	
400% – unlisted investments	-	6 156	6 156	
Latent revaluation gains not recognised in the balance sheet*	70	5 433	5 503	
Fair value	665	14 882	15 547	
Total unrealised gains recognised directly in the balance sheet through equity instead				
of the income statement*	-	141	141	
Capital requirement**	189	2 676	2 865	

^{*} These unrealised gains or losses are not included in Tier 1 or Tier 2 capital.

^{**} Capital requirement calculated at 10% of RWA (excluding the bank-specific individual capital requirement) and includes capital on investments in financial entities.

INSURANCE RISK

Insurance risk arises from the inherent uncertainties of liabilities payable under an insurance contract. These uncertainties can result in the occurrence, amount or timing of the liabilities differing from expectations. Insurance risk can arise throughout the product cycle and is related to product design, pricing, underwriting or claims management.

The risk arises from the group's long-term insurance operations, underwritten through its subsidiary, FirstRand Life Assurance Limited (FirstRand Life).

FirstRand Life currently underwrites funeral policies, risk policies and credit life policies (against FNB credit products). These policies are all originated through the FNB franchise. In October 2016, a hospital cash plan was introduced and is currently in a pilot phase. Funeral policies pay benefits upon death of the policyholder and, therefore, expose the group to mortality risk. The underwritten risk policies and credit life policies further cover policyholders for disability and critical illness, which are morbidity risks. The hospital cash plan is another source of morbidity risk. Credit life policies also cover retrenchment risk. As a result of these insurance risk exposures, the group is exposed to catastrophe risk, stemming from the possibility of an extreme event linked to any of the above.

For all of the above, the risk is that the decrement rates (e.g. mortality rates, morbidity rates, etc.) and associated cash flows are different from those assumed when pricing or reserving. Mortality, morbidity and retrenchment risk can further be broken down into parameter risk, random fluctuations and trend risk, which may result in the parameter value assumed differing from actual experience.

FirstRand Life also writes linked-investment policies distributed by Ashburton Investments. There is, however, no insurance risk associated with these policies.

Period under review and focus areas

Р	Period under review		k management focus areas
C	Transfer of policies previously underwritten by MMI Holdings Limited and RMB Structured Life onto the FirstRand Life licence.	0 0	Continue to monitor incidence rates, claims ratios and business mix of funeral sales. Enhance IT risk capabilities to support the new policy system.
•	Initiated sales of all credit life products on the FirstRand Life licence.		cimance if flow capabilities to support the new policy system.
•	Launch of a hospital cash plan.		

Organisational structure and governance

FirstRand Life is a wholly-owned subsidiary of FirstRand Insurance Holdings, which in turn is a wholly-owned subsidiary of the group. FirstRand Life is an approved long-term insurer, in terms of the Long-term Insurance Act and also an approved group entity under section 52 of the Banks Act.

FirstRand Life's board committees include an audit and risk committee, asset, liability and capital committee, and remuneration committee. The asset, liability and capital committee is responsible for:

- providing oversight of the product suite;
- approving new products;
- balance sheet management; and
- governance and challenging inputs, models and results of pricing and valuations.

To ensure consistency with the rest of the group, there are common members of the FirstRand Life and FirstRand Insurance Holdings boards, and audit and risk committees with the group committees. Relevant group and FNB committees have oversight of and receive feedback from appropriate FirstRand Life committees.

Assessment and management

The assessment and management of insurance risk is influenced by the frequency and severity of claims, especially if actual benefits paid are greater than originally estimated, and the subsequent impact on estimated long-term claims.

FirstRand Life manages the insurance risk of its funeral and credit life policies through monitoring incidence rates, claims ratios and business mix as the policies are not underwritten and pricing is flat. Any other risk policies sold to a different target market will be underwritten. This will allow underwriting limits and risk-based pricing to be applied to manage the insurance risk. There is also a reinsurance agreement in place to manage catastrophe risk.

Rigorous and proactive risk management processes to ensure sound product design and accurate pricing include:

- independent model validation;
- challenging assumptions, methodologies and results;
- debating and challenging design, relevance, target market, market competitiveness and treating customers fairly;
- identifying potential risks;
- monitoring business mix and mortality risk of new business; and
- thoroughly reviewing policy terms and conditions.

OPERATIONAL RISK

INTRODUCTION AND OBJECTIVES

Operational risk is defined as the risk of loss resulting from inadequate or failed internal processes, people, or systems, or from external events.

The group continuously evaluates and enhances existing frameworks, policies, methodologies, processes, standards, systems and infrastructure to ensure that the operational risk management practices are practical, adequate, effective, adaptable and in line with regulatory developments and emerging best practice.

OPERATIONAL RISK OBJECTIVES AND PROGRAMME

KEY OBJECTIVES

The group's objective is to focus on building an effective and forward-looking operational risk management programme.

OPERATIONAL RISK
MANAGEMENT PROGRAMME
COMPONENTS

Improve control environment to support achievement of strategic objectives.

Refine operational risk appetite to deliver greater value in business decision-making.

Make greater use of risk information and analysis outcomes in:

- → day-to-day risk management; and
- strategic decision-making.

Promote forward-looking operational risk assessments.

Assess impact of operational risk-related regulatory developments and ensure compliance.

Enhance risk management, measurement, capital calculation and allocation methods

Enhance operational efficiencies through operational risk management processes.

- operational risk management framework and policies – establishment, review and implementation;
- operational risk management tools and processes (including risk identification, assessment and quantification);
- operational risk analytics and capital;
- operational risk management IT system and management information; and
- \odot operational risk governance and reporting.

Period under review and focus areas

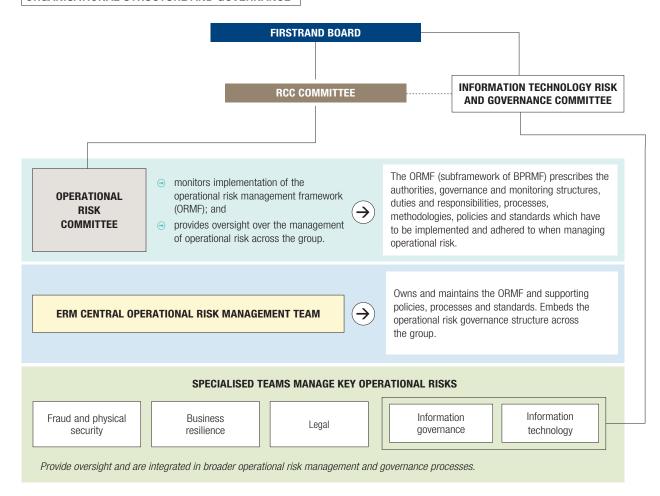
A number of control improvement initiatives, aimed at addressing key operational risk themes and improving operational risk maturity, continue to take place. The progress on these initiatives and impact on the operational risk profile is tracked and reported on regularly at group level through the management and risk governance process and are also considered as part of the operational risk appetite setting and risk scenario processes.

The principal operational risks currently facing the group are:

- information security risk (risk of loss or theft of information), given the growing number and sophistication of cyberattacks locally and globally;
- commercial and violent crime (including internal fraud) given the current socio-economic environment;
- third-party (vendor) risk given the challenge of direct oversight over internal risk management practices of vendors providing critical services and/or key outsourced services to the group;
- business disruption due to internal and external factors, and the associated impact on operations; and
- execution, delivery and process management risk (the risk of process weaknesses and control deficiencies) as the business continues to grow and evolve

Per	iod under review	Risl	k management focus areas
0	Implemented minimum standards for the risk management treatment of critical third-party service providers and key insourced arrangements.	0 0	Enhance the quality and coverage of process-based risk, and control identification and assessments. Refine operational risk appetite to deliver greater value in
0	Automated key risk drivers to assist in the identification of key risks.	0	decision-making. Enhance the risk management of key insourced arrangements in
0	Formalised actions with defined timelines for compliance with the Basel principles for risk data aggregation and reporting.		the group.
0	Reviewed contingency plans to manage business resilience risks associated with water supply shortages, given the drought and	0	Enhance use of operational risk management information and analysis.
	water supply interruptions.	0	Address gaps relating to the Basel principles for risk data aggregation and reporting.
0	Internal validation of the application and quality of the operational risk management tools within business.	0	Embed control testing as part of the responsibilities of the second line of control.
0	Ongoing review of key outsourcing arrangements. Process automation projects continued to reduce manual processes	0	Continue to enhance risk measurement, capital calculation and allocation methods.
0	and improve controls.	0	Ongoing assessment of the risk management and measurement
	Upgrading key facilities and infrastructure with completion planned for 2018.		impact (including capital) of changes to the BCBS's operational risk capital approach.
0	Continued to review risk mitigation strategies to combat cybercrime and ensure that controls are adequate and effective.	0	Align IT and related frameworks with changing business models and the technology landscape.
0	Refined processes, and improved data quality and records management practices.	0	Conduct regular IT risk assessments to ensure improvement of identified gaps.
0	Information governance now forms an integral part of the group's overall risk management framework.	0	Improve information management capabilities and the control environment, and roll out awareness programmes on records management, data quality and data privacy management.

ORGANISATIONAL STRUCTURE AND GOVERNANCE



MEASUREMENT OF OPERATIONAL RISK

Basel approaches

FirstRand applies the advanced measurement approach (AMA) for its domestic operations. Offshore subsidiaries and operations continue to use the standardised approach (TSA) for operational risk and all previously unregulated entities that now form part of FRIHL use the basic indicator approach (BIA). FirstRand continuously assesses the feasibility of migrating TSA and BIA entities to AMA (subject to internal and regulatory constraints)

Under **AMA**, FirstRand uses a sophisticated statistical model for the calculation of capital requirements, which enables a more accurate risk-based measure of capital for business units on AMA. Operational risk scenarios (covering key risks that, although low in probability, may result in severe losses) and internal loss data are direct inputs into this model.

Scenarios are derived through an extensive analysis of the group's operational risks in consultation with business and risk experts from across the group. Scenarios are cross-referenced to external loss data, internal losses, key risk indicators, process-based risk and control identification and assessments, and other pertinent information about relevant risk exposures. To ensure ongoing accuracy of risk and capital assessments, all scenarios are reviewed, supplemented and/or updated semi-annually, as appropriate.

The loss data used for risk measurement, management and capital calculations are collected for all seven Basel event types across various internal business lines. Data collection is the responsibility of business units and is overseen by the operational risk management team in ERM.

The modelled operational risk scenarios are combined with modelled loss data in a simulation model to derive the annual, aggregate distribution of operational risk losses. Basel Pillar 1 minimum capital requirements are then calculated (for the group and each franchise) as the operational VaR at the 99.9th percentile of the aggregate loss distribution, excluding the effects of insurance, expected losses and correlation/diversification.

Capital requirements are calculated for each franchise using the AMA capital model and then allocated to legal entities in the group based on gross income contribution ratios. This split of capital between legal entities is required for internal capital allocation, regulatory reporting and performance measurement purposes.

TSA and **BIA** capital calculations are based on a multiplication factor applied to gross income, as specified by Basel and SARB regulations. These capital calculations and allocations do not make use of any risk-based information.

Business practices continuously evolve and the operational risk control environment is, therefore, constantly changing to reflect the underlying risk profile. The assessment of the operational risk profile and exposures, and associated capital requirements take the following into account:

- changes in the operational risk profile, as measured by the various operational risk tools;
- material effects of expansion into new markets, new or substantially changed products or activities as well as the closure of existing operations;
- changes in the control environment the group targets a continuous improvement in the control environment, but deterioration in effectiveness is also possible due to, for example, unforeseen increases in transaction volumes;
- changes in organisational structure resulting in the movement of businesses and/or products from one business unit to another; and
- changes in the external environment, which drives certain types of operational risk.

ASSESSMENT AND MANAGEMENT

Operational risk assessment and management tools

The group obtains assurance that the principles and standards in the operational risk management framework are being adhered to by the three lines of control model, which is integrated in operational risk management. In this model, business units own the operational risk profile as the first line of control. In the second line of control, ERM is responsible for consolidated operational risk reporting, policy ownership and facilitation, and coordination of operational risk management and governance processes. GIA, as the third line of control, provides independent assurance on the adequacy and effectiveness of operational risk management processes and practices.

In line with international best practice, a variety of tools are employed and embedded in the assessment and management of operational risk. The most relevant of these are outlined in the following chart.

OPERATIONAL RISK ASSESSMENT AND MANAGEMENT TOOLS

Pro	cess-based risk and control identification and assessment	Key	risk indicators
0 0 0	the risk and control assessment per product/service based on key business processes; integrated in day-to-day business and risk management processes; and used by business and risk managers to identify and monitor key risks and assess the effectiveness of existing controls.	0 0 0	used across the group in all businesses as an early warning risk measure; highlight changing trends in exposures to specific key operational risks; and inform operational risk profiles which are reported periodically to the appropriate management and risk committees and are monitored on a continuous basis.
Inte	ernal/external loss data	Risl	k scenarios
0	capturing internal loss data is a well-entrenched discipline within the group; internal loss data reporting and analyses occur at all levels with specific focus on root causes, and process analysis and corrective action; and	0 0 0	risk scenarios are widely used to identify and quantify low frequency extreme loss events; senior management actively participates in the biannual reviews; and results are tabled at the appropriate risk committees and are
0	external loss databases are used to learn from the loss experience of other companies and are also an input into the risk scenario process.		used as input into the capital modelling process.

FirstRand uses an integrated and reputable operational risk system in which all operational risk assessment and management tools have been automated to provide a holistic view of the group's operational risk profile.

Operational risk events

As operational risk cannot be avoided or mitigated entirely, frequent events resulting in small losses are expected as part of business operations (e.g. external card fraud) and are budgeted for appropriately. Business units minimise these losses through continuously monitoring and improving relevant business and control practices and processes. Operational risk events resulting in substantial losses occur much less frequently and the group strives to minimise these and limit the frequency and severity within its risk appetite levels through appropriate controls. For the period under review, operational losses were within operational risk appetite levels.

Operational risk management processes

A number of key risks exist for which specialised teams, frameworks, policies and processes have been established and integrated into the broader operational risk management and governance programmes as described in the next diagram.

KEY OPERATIONAL RISKS AND MANAGEMENT PROCESSES

BUSINESS RESILIENCE LEGAL RISK IT RISK Operations should be resilient to Creation and ongoing management Protection of information systems severe disruptions from internal of contractual relationships. against unauthorised access, failures or external events. destruction, modification and use. Management of disputes. Management Business continuity strategies ⊕ Ensure confidentiality, availability Protection and enforcement of include regular review of business and integrity of systems that property rights (including continuity plans (including disaster maintain, process and disseminate intellectual property). recovery plans) and testing. this information. Account for the impact of change Disruptions or incidents are in legislation or decisions by the assessed and reported to the courts. relevant risk stakeholders Business resilience steering Compliance with legislation → Information technology risk and committee (a subcommittee of the governance committee (board managed by RRM. operational risk committee). committee). → Legal risk committee Practices are documented in the → IT risk management framework and (subcommittee of operational risk business resilience policy and information security policy. committee). standards. Legal risk management framework. **INFORMATION GOVERNANCE** FRAUD AND SECURITY RISK **RISK INSURANCE** Covers internal (staff) and Information is a valuable asset. Structured insurance risk financing external fraud. programme in place for material Focus on quality and protection of losses from first-party risks. information against unauthorised Ontain external fraud losses with Management access, destruction, modification, enhanced controls and introduction → Insurance refined through risk use and disclosure. of improved real-time detection profile assessment, change in models group strategy or markets. Ensure confidentiality, availability, integrity, sensitivity of and Mitigate the growing cybercrime Cover for professional indemnity, accountability for all information. threat with measures to improve directors' and officers' liability, crime, public and general liability, resilience against cyberattacks. assets, etc. Information governance committee → Fraud risk management function (subcommittee of the operational reporting to FNB CRO with a group Services Company (FRISCOL) (the risk committee). group's wholly-owned first-party mandate. Information governance framework insurance company). Fraud risk management framework. and acceptable use of information resources policy.

Risk insurance

The group has a structured insurance risk financing programme in place, which has been developed over many years, to protect the group against unexpected material losses arising from non-trading risks. The programme is designed, where appropriate, to complement the risk management strategy to protect against the identified risks which can affect the group's financial performance or position and, therefore, negatively affect shareholder value.

The insurance risk programme is continuously refined through ongoing assessment of changing risk profiles, organisational strategy and growth, and monitoring international insurance markets. The levels and extent of insurance cover is reviewed and benchmarked annually.

The group's insurance-buying philosophy is to self-insure as much as is economically viable in line with its risk appetite and to only protect itself against catastrophic risks through the use of third-party insurance providers. Accordingly, the majority of cover is placed into the group's wholly-owned first-party dedicated insurance company, FRISCOL. This captive insurer retains the expected loss exposure and supplements this with risk transfer for catastrophic risks. All cover on the main programme is placed with reinsurers with a minimum credit rating of A-.

The insurance programme includes, *inter alia*, cover for operational risk exposures such as professional indemnity, directors' and officers' liability, crime, public and general liability, assets, etc. This protection extends across the group and into the subsidiaries in the rest of Africa. This results in effective risk financing and the extraction of economies of scale benefits for the group. The group does not consider insurance as a mitigant in the calculation of capital for operational risk purposes.

OTHER RISKS

STRATEGIC RISK

Any business runs the risk of choosing an inappropriate strategy or failing to execute its strategy appropriately. The group aims to minimise this risk in the normal course of business.

Risk to current or prospective earnings arising from inappropriate business decisions or improper implementation of such decisions.

Strategic risk is not a readily quantifiable risk and not a risk that a company can or should hold a protective capital buffer against. The development and execution of business level strategy is the responsibility of the strategic executive committee and the individual business areas, subject to approval by the board. This includes the approval of any subsequent material changes to strategic plans, budgets, acquisitions, significant equity investments and new strategic alliances.

Business unit and group executive management, as well as Group Treasury and ERM review the external environment, industry trends, potential emerging risk factors, competitor actions and regulatory changes as part of the strategic planning process. Through this review, as well as regular scenario planning and stress testing exercises, the risk to earnings and the level of potential business risks faced are assessed. Reports on the results of these exercises are discussed at various business, risk and board committees and are ultimately taken into account in the setting of risk appetite and potential revisions to existing strategic plans.

BUSINESS RISK

Risk to earnings, capital and sustainability from potential changes in the business environment as well as planned expansion activities.

Business risk stems from:

- the potential inability to generate sufficient volumes to maintain a positive net operating margin in a volatile business environment (resulting in severe earnings volatility) that is unrelated to other known, material and capitalised risk types; and
- the potential inability to execute on strategy according to the business plan in order to remain sustainable and well capitalised on a forward-looking basis and relates to large investments, mergers and acquisitions.

The group's objective is to develop and maintain a well-diversified portfolio that delivers sustainable earnings and minimises the chance of adverse, unexpected outcomes.

BUSINESS RISK COMPONENTS AND RISK DRIVERS

VOLUME AND MARGIN RISK EXPANSION ACTIVITIES Risk of downside deviation from planned Relates to the group's ability to generate expansion activities, where franchise value is sufficient levels of revenue to offset its costs. lower than expected due to lower revenues or higher costs than expected. (\uparrow) Direct risk drivers: economic environment; new products; technological progress; inability to hedge risk; onew markets; and behavioural risk; assumption risk; country risk. Risk drivers competitive environment risk; Indirect risk drivers: reputational risk; internal risk − management decisions and organisational design; and political risk.

In managing the volume and margin changes component, the group performs trend analyses of its revenue volatility, pre-tax operating margin, cost-to-income ratio and the fixed-to-total cost ratio, and targets a portfolio of low earnings volatility, high-margin activities with a variable cost structure. The risk inherent in expansion activities is managed through the execution of a robust business plan approval process. This includes in-depth scrutiny of business plans, understanding and documentation of risk drivers and root causes that could lead to additional capital injections, as well as frequent reporting of execution variance against plan.

For economic capital purposes, business risk is the internal risk measure to capture unexpected losses over a one-year time horizon from the remaining material risks not captured by Pillar 1 and 2. Volume and margin changes, as well as expansion activities are considered part of strategic planning and assessed through the group's management and governance processes, and incorporated in the annual ICAAP submission.

REPUTATIONAL RISK

The risk of reputational damage due to compliance failures, pending litigations, underperformance or negative media coverage.

The group's business is inherently built on trust and close relationships with its clients. Its reputation is, therefore, built on the way in which it conducts business and the group protects its reputation by managing and controlling risks across its operations. Reputational risk can arise from environmental and social issues or as a consequence of financial or operational risk events. The group seeks to avoid large risk concentrations by establishing a risk profile that is balanced within and across risk types. Potential reputational risks are also taken into account as part of stress testing exercises. The group aims to establish a risk and earnings profile within the constraints of its risk appetite, and seeks to limit potential stress losses from credit, market, liquidity or operational risks that may otherwise introduce an undesirable degree of volatility in its financial results and adversely affect its reputation.

ENVIRONMENTAL AND SOCIAL RISK

Relates to environmental and social issues which impact the group's ability to sustainably implement business strategy.

FirstRand has formal governance processes for managing environmental and social risk. These include detailed environmental and social risk analyses (ESRA) programmes as well as programmes for direct operational risk impacts. Environmental and social risk management processes are formally integrated into the group's credit risk governance process, which is supported by enterprise-wide social and ethics committee structures.

FirstRand is an Equator Principles (EP) finance institution. EP forms part of ESRA and is a specific framework for determining, assessing and managing environmental and social risk in affected transactions. The group's reports on the ESRA process and EP transactions, and climate change and energy are available on the group's website, www.firstrand.co.za/sustainability/pages/environment-programme.aspx.

MODEL RISK

The use of models causes model risk, which is the potential for adverse consequences from decisions based on incorrect or misused model outputs and reports. Model risk can lead to financial losses, poor business and strategic decision-making, or damage to the group's reputation.

The group recognises two types of model risk:

Intrinsic model risk — the risk inherent in the modelling process, which cannot be directly controlled, but can be appropriately mitigated. Examples of intrinsic model risk drivers include model complexity, availability of data and model materiality.

Incremental model risk – the risk caused by inadequate internal practices and processes, which can be actively mitigated through quality model documentation, robust governance processes and a quality model implementation environment.

A model is defined as a quantitative method, system, or approach that applies statistical, economic, financial, or mathematical theories, techniques and assumptions to process input data into quantitative estimates. A model generally consists of three components:

- an information input component, which delivers assumptions and data to the model;
- a processing component, which transforms inputs into estimates; and
- a reporting component, which translates the estimates into useful business information.

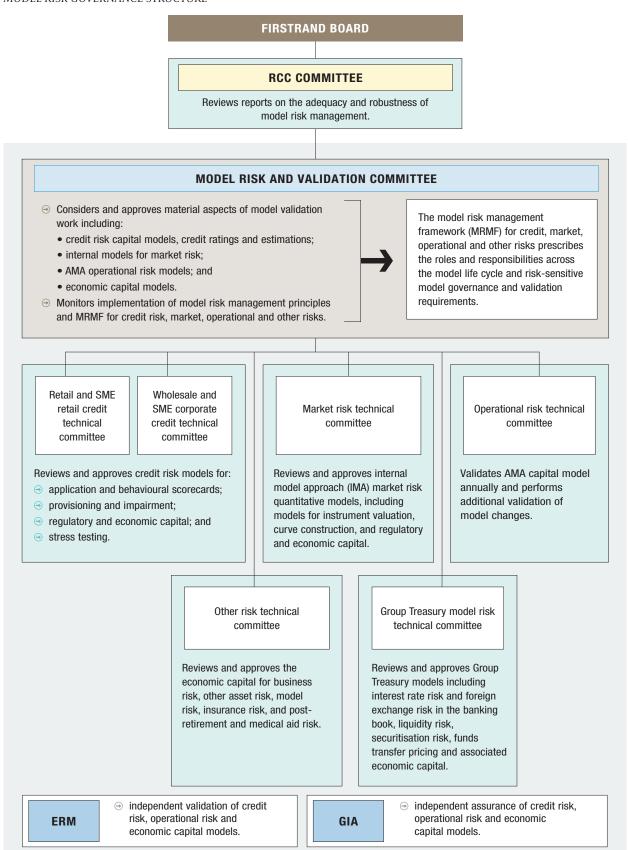
Model risk exists as models may have fundamental errors and produce inaccurate outputs when assessed against the design objective and intended business use. Model risk may also arise as a result of model results being used incorrectly or inappropriately.

Period under review and focus areas

Per	Period under review		Risk management focus areas	
0	Developed model risk management frameworks for risk types not yet covered by existing frameworks.		Rollout of model risk management software to remaining credit, operational and market risk models.	
0	Implemented model risk management software and commenced rollout.		Continue to track improvements in model risk management across risk types.	
•	Refined measurement and monitoring methodology for model risk, and embedded model risk measurement in governance and validation processes for Pillar 1 and Pillar 2 risk types.	0	Formalise a risk appetite statement for model risk.	
•	Refined the quantification of model risk economic capital and extended calculation coverage to all regulatory and economic capital models.			

Organisational structure and governance

MODEL RISK GOVERNANCE STRUCTURE



Assessment and management

The level of model risk related to a particular model is influenced by model complexity, uncertainty about inputs and assumptions, and the extent to which the model is used to make financial and strategic decisions. The risks from individual models, and in aggregate, are assessed and managed. Aggregated model risk is affected by interaction and dependencies among models, reliance on common assumptions, data or methodologies and any other factors that could adversely affect several models and their outputs at the same time. As an understanding of the source and magnitude of model risk is key to effective management of the risk, model risk management is integrated into the group's risk management processes.

Various principles are applied in the model risk management process. Risk owners assess which of these principles are applicable to a specific model and determine the levels of materiality for model evaluation and validation.

MODEL RISK MANAGEMENT PRINCIPLES

Data and systems	Development	Testing and validation	Monitoring	Governance
 ⇒ use systems that ensure data and reporting integrity; ⇒ use suitable data; ⇒ maintain master list of field data; ⇒ implement appropriate system controls; and → assess data quality. 	 document model design, theory and logic which is supported by published research and industry practice; expert challenge of methods and assumptions; and ensure appropriate conservatism. 	 provide independent validation; review documentation, empirical evidence, model construction assumptions and data; perform sensitivity analysis; perform stress testing; and obtain independent assurance from GIA. 	 perform regular stress testing and sensitivity analysis; perform quantitative outcome analysis; perform back testing and establish early warning metrics; assess model limitations; set and test error thresholds; and test model validity. 	 provided by three lines of control; approve model risk; management framework; ensure effective management; ensure approval committees with adequate skills; and ensure appropriate documentation.

Model risk measurement

A scorecard with risk factors based on model risk management principles is used for model risk measurement and quantification of capital. Intrinsic model risk and incremental model risk are assessed and tracked separately, then combined to obtain overall model risk scorecards. The scorecard is tailored for each risk type by applying risk-type specific weightings to each scorecard dimension and by refining the considerations for each dimension to be specific to that risk type.

Each regulatory capital and economic capital model is rated using the model risk scorecard and assigned an overall model risk rating of low, medium or high. These ratings are used to determine the model risk economic capital add-on multiplier, which is applied to the output of capital models to determine the amount of model risk economic capital to be held.

REGULATORY RISK

Regulatory risk refers to the risk of statutory, regulatory sanction, material financial loss or reputational damage as a result of failure to comply with any applicable laws, regulations or supervisory requirements.

The group expects ethical behaviour that contributes to the overall objective of prudent regulatory compliance and risk management by striving to observe both the spirit and the letter of the law. Management's ownership and accountability contributes to this through providing responsible financial products and services, and treating customers fairly. The compliance culture also embraces broader standards of integrity and ethical conduct which affects all employees.

RRM OBJECTIVE AND APPROACH

OBJECTIVE

Ensure business practices, policies, frameworks and approaches across the group are consistent with applicable laws and that regulatory risks are identified and proactively managed.



APPROACH

- Maintain an effective and efficient regulatory risk management framework with sufficient operational capacity to assess financial products and services against fair market conduct principles, and promote and oversee compliance with legislative and best practice requirements.
- Ensure appropriate policies, standards and processes are in place to mitigate risk of abuse of the group's banking platforms for unlawful purposes.
- Training of staff ensures a high level of understanding and awareness of applicable legal and regulatory frameworks pertaining to the group's business activities.

Compliance with laws and regulations applicable to its operations is critical to the group as non-compliance may have potentially serious consequences and lead to both civil and criminal liability, including penalties, claims for loss and damages, or restrictions imposed by regulatory authorities. Applicable laws and regulations include:

- Banks Act, 1990 and related Regulations;
- Ompetition Act, 1998;
- Collective Investment Schemes Control Act, 2002;
- Financial Intelligence Centre (FIC) Act, 2001;
- Long-term Insurance Act, 1998;
- Short-term Insurance Act, 1998;
- Financial Advisory and Intermediary Services (FAIS) Act, 2002;
- National Credit Act (NCA), 2005;
- Ocnsumer Protection Act, 2008;
- JSE rules and directives;
- Financial Markets Act, 2012;
- Foreign Account Tax Compliance Act; and
- Protection of Personal Information (POPI) Act, 2013.

Effective regulatory risk management promotes compliance with applicable laws, regulations and related requirements as a business outcome and supports integration into business processes. RRM assists senior management in effectively and expeditiously resolving identified compliance issues. RRM interacts and cooperates closely with other group and franchise functions, as well as with the group's various regulatory authorities.

Period under review and focus areas

Period under review

- The FIC Amendment Bill was referred for approval in May 2016. Subsequent deliberations on the constitutionality of a clause in the bill have been concluded and the bill has now been referred back to the President.
- It is anticipated that new regulations will be published to align to requirements emanating from the FIC Bill, once promulgated.
- The Financial Sector Regulation Bill was adopted by the National Assembly and referred to the National Council of Provinces (NCOP).
- The amended Regulations relating to Banks became effective on 1 July 2016.

Risk management focus areas

- Continue to cooperate with regulatory authorities and other stakeholders.
- Continue to make significant investments in people, systems and processes to manage risks emanating from the large number of new local and international regulatory requirements, including NCA, FAIS and POPI.
- Ongoing investment in systems, processes and resources to ensure compliance with anti-money laundering and combating the financing of terrorism (AML/CFT) legislation.
- Ongoing focus on remediation actions required in respect of identified regulatory risk management matters, including matters identified by the SARB during its AML/CFT inspection, and AML/CFT compliance assessments by regulators in other jurisdictions such as Namibia and Botswana.
- Continue to work closely with regulators and industry on the authenticated collections project; the main objective of which is to prevent debit order abuse.
- Continue to manage risks associated with illicit cross border flows.

Banking legislation

As a member of the BCBS, the SARB is committed to ensuring that the South African regulatory and legislative framework relating to the regulation and supervision of banks and banking groups remains compliant with international standards and market best practice. Accordingly, and in order to further strengthen and enhance South Africa's regulatory framework, a large volume of regulatory changes are being implemented and/or phased in, which usually results in amendments to the Regulations, such as the amendments which were published in Government Gazette No. 40002 of 20 May 2016.

In addition to the above, various other documents, frameworks and requirements that impact materially on the regulation and supervision of banks and banking groups, are being issued by the international standard-setting bodies on an ongoing basis, resulting in revised, additional and/or new regulatory requirements. These, together with the Basel III phase-in arrangements, largely resulted in prudential regulatory changes and new and/or amended requirements and standards.

Twin peaks

Twin peaks refers to the government policy paper which was published in February 2011, entitled *A safer financial sector to serve South Africa better.* The paper, commonly referred to as the *Red Book*, sets out initial proposals to reform South Africa's financial sector regulatory system and provides information on a wide-ranging set of reforms and proposals relating to, amongst others, the implementation of a twin peaks model of financial regulation in South Africa. National Treasury published a revised draft of the Financial Sector Regulation Bill and a discussion document *Treating Customers Fairly in the Financial Sector: A Market Conduct Policy Framework for South Africa*. Public comment on the Financial Sector Regulation Bill was subsequently concluded and the bill was adopted by the National Assembly and referred to the NCOP.

The twin peaks approach will place equal focus on prudential and market conduct supervision with a separate focus on financial stability. In order to minimise the risks associated with the change, a phased-in approach will be followed for the implementation of the twin peaks system of financial regulation in South Africa. The group continues to work closely with regulators. Some of the policy priorities identified in order to reform the financial sector, desired outcomes of the approach and phased in implementation are shown in the following diagram.

TWIN PEAKS POLICY PRIORITIES AND IMPLEMENTATION

POLICY PRIORITIES	TWIN PEAKS IMPLEMENTATION			
Financial stability	Phase 1			
Consumer protection and market conduct	enactment of the Financial Sector			
Expanding access to financial services through inclusion	Regulation Bill; and → establishment of the required regulatory			
Combating financial crime	architecture.			
	(lacksquare			
DESIRED OUTCOMES	Phone 0			
Financial systemic stability	Phase 2			
Strengthened financial regulatory system and structures	 establishment of a target framework, which will include the development of the required legal frameworks for prudential 			
Sound market conduct, micro- and macro-prudential regulation	and market conduct regulation; and → introduction of new legislation and			
Strengthened operational independence, governance and accountability of regulators	licencing procedures, where required.			

Other regulatory developments and focus areas during the period are described in the following diagram.

REGULATORY DEVELOPMENTS AND RRM FOCUS AREAS

REGULATORY DEVELOPMENTS AND RRM FOCUS AREAS				
PROTECTION OF PERSONAL INFORMATION ACT (POPI)	AML AND CFT MEASURES	MARKET CONDUCT		
 PoPI provides for privacy and protection of personal information held by the group in respect of employees, customers, suppliers and third parties. The effective date is yet to be announced. In the interim, the group continues to devote attention and resources to security safeguards, processing and purpose specification of personal information, quality of personal information held, customer notification and consent, third-party processing of personal information and complaints handling. 	 The group's objective is to ensure compliance with the provisions of AML/CFT legislation and other requirements pertaining thereto. The FIC Act will be amended to align more closely with revised Financial Action Task Force recommendations. A number of initiatives are under way in anticipation of changes required under new legislation. Ongoing focus on implementation of the FIC's GoAML system reporting requirements. 	 Participation in the public commentary process of proposed market conduct legislation, which includes the retail distribution review and other proposals. Participation in the public commentary process in relation to, among others, proposed fit and proper changes, the Levies Bill, draft Code of Conduct in respect of over-the-counter derivatives, the Conduct of Financial Institutions Bill, Insurance Policyholder Protection Rules and FAIS Conduct of Business Returns. Creating awareness of and embedding Treating Customer Fairly principles across the group. Conveys market conduct regulations and related industry best practice to business. 		
NATIONAL ENVIRONMENTAL MANAGEMENT: WASTE ACT	ETHICS OFFICE	THE NATIONAL CREDIT ACT		
 The group is participating in relevant industry forums focusing on problematic areas relating to certain provisions of Part 8 of the Waste Act, 2008. The group adjusted its environmental and social risk analysis processes relating to contaminated land and raised extensive awareness in the credit community to mitigate against the above-mentioned problematic areas. 	 Continuously reinforces a culture of integrity and ethical business practices. Maintains focus on the promotion of responsible business including enhancing and maturing ethics and conduct risk capabilities across the group. Promotes training relating to and awareness of the independent whislte-blowing line. Provides oversight on personal account trading and conflicts of interest management. Provides training and guidance on anti-bribery and corruption. 	 Continued focus on internal processes to ensure ongoing compliance with all applicable regulatory requirements, such as those for affordability, pricing and credit life insurance. 		

Organisational structure and governance

REGULATORY RISK GOVERNANCE STRUCTURE

FIRSTRAND BOARD **RCC COMMITTEE AUDIT COMMITTEE** SOCIAL, ETHICS AND TRANSFORMATION COMMITTEE → provides oversight of governance and functioning of group-wide ethics → receive regular reports on levels of compliance and programme; and instances of material non-compliance. $\ensuremath{\circleddash}$ approves the code of ethics which is the cornerstone of the group's ethics management framework. → provides oversight of RRM function and financial crime regulatory risk COMPLIANCE AND CONDUCT RISK management; and \rightarrow COMMITTEE • monitors implementation of the regulatory risk management framework. → implement and monitor compliance policies and procedures related to \rightarrow FRANCHISE COMPLIANCE OFFICERS the relevant franchise. ocordinates management of group regulatory risk; **RRM FUNCTION** → monitors, assesses and reports on the level of compliance to senior management and the board; and RRM has an independent reporting line to the group → fulfils duties and responsibilities in line with requirements prescribed in deputy CEO with full line of sight to the group CEO, and Regulation 49. the relevant executive and board oversight committees.

RRM's board mandate is to ensure full compliance with statutes and regulations. To achieve this, RRM has implemented appropriate structures, policies, processes and procedures to identify regulatory and supervisory risks. RRM monitors the management of these risks and reports on the level of compliance to the board and SARB. These include:

- risk identification through documenting which laws, regulations and supervisory requirements are applicable to the group;
- risk measurement through the development of risk management plans:
- risk monitoring and review of remedial actions;
- risk reporting; and
- providing advice on compliance-related matters.

Although independent of other risk management and governance functions, the RRM function works closely with the group's business units, the Public Policy and Regulatory Affairs Office, GIA, ERM, external auditors, internal and external legal advisors, and the Company Secretary's Office to ensure effective functioning of compliance processes.

Public Policy and Regulatory Affairs Office

In line with the responsibilities of FirstRand as the group's holding company, the Public Policy and Regulatory Affairs Office facilitates the process through which the board maintains an effective relationship with both local and international regulatory authorities for the group's regulated subsidiaries and branches. The office also provides the group with a central point of engagement, representation and coordination in respect of relevant regulatory and public policy-related matters at a strategic level. This function is differentiated from the existing and continuing engagement with regulators at an operational level, i.e. regulatory reporting, compliance and audit. Its main objective is to ensure that group and franchise executives are aware of key developments relating to public policy, legislation and regulation pertinent to the group's business activities. It also supports executives in developing the group's position on issues pertaining to government policy, proposed and existing legislation and regulation.

This office reports directly to the group deputy CEO and indirectly, through designated subcommittees, to the board and maintains close working relationships with RRM, ERM and business units where specific technical expertise resides.

CONDUCT RISK

Conduct risk arises when employees and directors behave in a manner that would not be considered fair to other employees, financial market participants, clients or other societal stakeholders.

Governments increasingly recognise the importance of ethical conduct in banking and, as a result, develop regulation to enforce standards and hold business leaders responsible for their actions.

Introduction and objectives

The group endorses a risk philosophy which takes cognisance of the importance of ethical conduct. If an organisation's culture is compromised or it is not competently managed, compliance controls will be less effective and become a source of unnecessary cost without the benefits of risk mitigation.

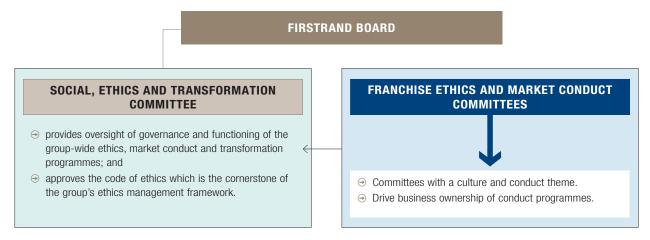
Leadership is required to integrate ethics and conduct risk objectives, especially in respect of market conduct, into commercial strategies. For this reason, strategy and leadership and the intersect with culture and conduct are continuously evaluated.

Period under review and focus areas

The FirstRand social, ethics and transformation committee oversees a culture and conduct framework and the table below outlines the focus areas during the period.

Risk management focus areas Period under review • Reviewed the outcomes of several culture risk assessments, Review market conduct maturity and associated platform developments. coupled with group engagement assessments. Focus on emerging culture risks and appropriate responses to the • Reviewed whistle-blowing trend analysis and adequacy for the increasing regulatory requirements. Oversee implementation of business conduct programme with a focus • Reviewed culture and conduct risk in specialised areas of FNB. on anti-bribery and corruption, whistle-blowing and clients of interest reviews (due diligence). Oversaw clients of interest with adverse news, origination, Oversee the prevention of insider trading via the FirstRand personal deliberation and remediation processes. account trading programme.

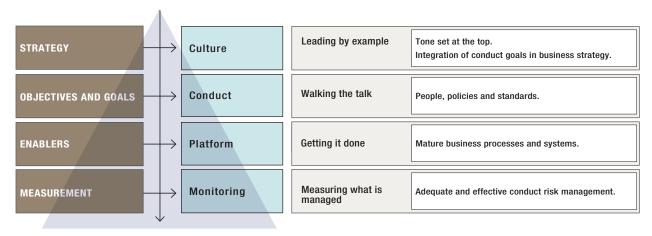
ORGANISATIONAL STRUCTURE AND GOVERNANCE



Assessment and management

Conduct programmes are integrated in the group with a holistic management approach connecting leadership, business operations and the control environment.

CONDUCT RISK MANAGEMENT APPROACH



In support of a sound risk culture, the group manages three conduct risk programmes, with appropriate levels of staff training and communication to ensure responsible conduct. The focus areas of each of the programmes are outlined in the following table.

Business conduct programmes	Market conduct programmes	Environmental conduct programmes
 conflicts of interest management; safe whistle-blowing; personal account trading; bribery and corruption; and client desirability reviews. 	 retail market conduct (treating customers fairly); ethical trading in financial markets (OTC derivatives); and responsible wholesale banking practice. 	 environmental and social risk analysis; environmental footprint reduction (electricity, waste and water); and green financing.

REMUNERATION AND COMPENSATION

FirstRand's compensation policies and practices incorporate international best practice and comply with the requirements of the Banks Act, 1990 (Act No. 94 of 1990) and FSB Principles for Sound Compensation Practices. In accordance with the requirements of Regulation 43 of the Regulations, full disclosure of the group's compensation policies, practices and performance are included in the remuneration committee report in its annual integrated report, which is published on FirstRand's website, www.firstrand.co.za.

INDEX OF RISK DISCLOSURE TABLES

Section and table	Pillar 3 standard	Banks Act regulation/ directive	Report section	
Overview of risk management and risk weighted assets	Standard	unconvo	Hoport Scotion	
OVA Bank risk management approach	✓		Overview of risk management	
OV1 Overview of RWA	✓		Capital management	
Basis of consolidation		Regulation 43	Overview of risk management	
Capital management				
Capital adequacy		Regulation 43	Capital management	
Capital common disclosure templates		Directive 3/2015	Common disclosures	
Funding and liquidity risk				
Funding management		Regulation 43		
Liquidity risk management		Regulation 43	Funding and liquidity risk	
Liquidity coverage ratio (LCR) common disclosure template		Directives 6/2014 and 11/2014	Common disclosures	
Credit risk				
CRA Qualitative information about credit risk	✓			
Credit asset by approach, type and segment		Regulation 43		
CR1 Credit quality of assets	✓			
CR2 Changes in stock of defaulted advances and debt securities	✓			
CRB Additional disclosure related to credit quality of assets	✓			
CRB Exposure by geographical, industry and residual maturity	✓			
CRB Impaired exposures by geographical and industry	✓			
CRB Age analysis	✓			
CRB Impaired and not impaired restructured exposures	✓			
CRC Credit risk mitigation	✓		Oradit rials	
CR3 Credit risk mitigation techniques	✓		Credit risk	
CRD Qualitative disclosure of use of external ratings under standardised approach	✓			
CR4 Standardised approach exposure and credit risk mitigation	✓			
CR5 Standardised approach exposure by asset class and risk weight	✓			
CRE IRB approach qualitative disclosure	✓			
CR6 Credit risk exposure by portfolio and PD range	✓			
CR7 Effect on RWA of credit derivatives	✓			
CR8 RWA flow statement of credit risk exposures under AIRG	✓			
CR10 Specialised lending	✓			
Credit risk analysis		Regulation 43		

	Pillar 3	Banks Act regulation/		
Section and table	standard	directive	Report section	
Counterparty credit risk				
CCRA Qualitative disclosure	tative disclosure ✓			
CCR1 CCR exposure by approach	✓			
CCR2 CVA capital charge				
CCR3 CCR exposure by regulatory portfolio and risk weights (standardised approach)	✓		Counterparty credit risk	
CCR4 IRB CCR exposure by portfolio and PD scale	✓			
CCR5 Collateral for CCR exposure	✓			
CCR6 Credit derivative exposure	✓			
CCR8 Exposure to central counterparties	✓			
Securitisation	✓			
SECA Qualitative disclosure	✓	***************************************		
SEC1 Securitisation exposure and rating distribution	✓			
SEC3 Securitisation exposure and associated capital requirements (originator or sponsor)	✓		Securitisations	
SEC4 Securitisation exposure and associated capital requirements (investor)	✓			
Market risk in the trading book				
Definition, governance, assessment, measurement	***************************************	Regulation 43		
MRA Qualitative disclosure for market risk	✓			
MRB IMA qualitative disclosure	✓		Market risk in the trading book	
MR2 RWA flow statement of market risk exposures under IMA	✓			
VaR exposure per asset class		Regulation 43		
MR3 IMA values for trading portfolios	✓			
MR4 Comparison of VaR estimates with gains/losses	✓			
MR1 Market risk RWA under standardised approach	✓			
Non-traded market risk				
Interest rate risk in the banking book	✓	Regulation 43	Interest rate risk in the	
- NII sensitivity	✓	Regulation 43	banking book	
Structural foreign exchange risk		Regulation 43	Structural foreign	
Net structural foreign exposures		Regulation 43	exchange risk	
Equity investment risk				
Definition, governance, assessment, measurement		Regulation 43		
Investment risk exposure and sensitivity		Regulation 43	Equity investment risk	
CR10 Equities under simple risk-weight approach	✓			
Investment values and capital		Regulation 43		
Insurance risk		Regulation 43	Insurance risk	
Operational risk				
Definition, governance, assessment, measurement, approaches, use of insurance	✓	Regulation 43	Operational risk	
Other risks				
Strategic, business, reputational, environmental and social, model, regulatory and conduct risks		Regulation 43	Other risks	
Remuneration and compensation		Regulation 43	Remuneration and compensation	

DEFINITIONS

Additional Tier 1 capital (AT1)	NCNR preference share capital plus qualifying capital instruments issued out of fully consolidated subsidiaries to third-parties less specified regulatory deductions.
Business performance and risk management framework (BPRMF)	Highlights the key principles and guidelines applied with respect to the effective management of risk across FirstRand Limited (FirstRand or the group) in the execution of business strategy.
Common Equity Tier 1 capital (CET1)	Tier 1 less Additional Tier 1 capital.
Common Equity Tier 1 capital	Share capital and premium plus accumulated comprehensive income and reserves plus qualifying capital instruments issued out of fully consolidated subsidiaries to third-parties less specific regulatory deductions.
Credit loss ratio	Total impairment charge per the income statement expressed as a percentage of average advances (average between the opening and closing balance for the year).
Dividend cover	Normalised earnings per share divided by dividend per share.
Exposure at default (EAD)	Gross exposure of a facility upon default of a counterparty.
Loss given default (LGD)	Economic loss that will be suffered on an exposure following default of the counterparty, expressed as a percentage of the amount outstanding at the time of default.
Net income after capital charge (NIACC)	Normalised earnings less the cost of equity multiplied by the average ordinary shareholders' equity and reserves.
Probability of default (PD)	Probability that a counterparty will default within the next year (considering the ability and willingness of the counterparty to repay).
Return on equity (R0E)	Normalised earnings divided by average normalised ordinary shareholders equity.
Risk weighted assets (RWA)	Prescribed risk weightings relative to the credit risk of counterparties, operational risk, market risk, equity investment risk and other risk multiplied by on- and off-balance sheet assets.
Tier 1 ratio	Tier 1 capital divided by RWA.
Tier 1 capital	Common Equity Tier 1 capital plus AT 1 capital.
Tier 2 capital	Qualifying subordinated debt instruments plus qualifying capital instruments issued out of fully consolidated subsidiaries to third-parties plus general provisions for entities on the standardised approach less specified regulatory deductions.
Total qualifying capital and reserves	Tier 1 capital plus Tier 2 capital.
FirstRand Bank (SA)	FRB excluding foreign branches

ABBREVIATIONS

AIRB	Advanced internal ratings based approach
AMA	Advanced measurement approach
AVC	Asset value correlation
BIA	Basic indicator approach
BPRMF	Business performance and risk management framework
CEM	Current exposure method
CVA	Credit value adjustment
EAD	Exposure at default
ETL	Expected tail loss
ICR	Individual capital requirement
IMA	Internal models approach
LCR	Liquidity coverage ratio
LGD	Loss given default
NOFP	Net open forward position in foreign exchange
NSFR	Net stable funding ratio
PD	Probability of default
TSA	The standardised approach
VaR	Value-at-Risk



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