# 2017 Solvency and Financial Condition Report

Nationale-Nederlanden Levensverzekering Maatschappij N.V.



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# **Content Solvency II**

## **Solvency and Financial**

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# Summary

## Summary

## NN Leven's approach to the Solvency and Financial Condition Report

This Solvency and Financial Condition Report ('SFCR') provides public quantitative and qualitative disclosures for Nationale-Nederlanden Levensverzekering Maatschappij N.V. ('NN Leven') on Solvency II as required by the Solvency II legislation. NN Leven already discloses most of the information that is required to be included in the SFCR in its 2017 Annual Report ('Annual Report'). In order to ensure the most transparent and user-friendly approach, the information that is already included in the Annual Report is not duplicated in this SFCR. Therefore, this SFCR is prepared as a supplement to NN Leven's Annual Report. It includes all information required to be disclosed in the SFCR, either through a specific reference to the Annual Report or as supplemental information.

As required by the Delegated Regulation (EU) 2015/35/Annex XX "Structure of the Solvency and Financial Condition Report and Regular Supervisory Report", this SFCR follows the required standard chapter layout. The subjects addressed are based on Directive 2009/138/EC/ and (amended) Directive 2014/51/EU section 3 – Public Disclosures (articles 51-56), Delegated Regulation (EU) 2015/35 and (amended) Delegated Regulation (EU) 2016/467 chapter XII Public Disclosures (articles 292-298). Furthermore, the figures presented in this report are in line with the supervisor's reported Quantitative Reporting Templates ('QRTs').

NN Leven is required to submit the so-called Quantitative Reporting Templates to its supervisor Dutch Central Bank ('DNB'). A subset of these QRTs, which are required to be publicly disclosed and which provide quantitative information in accordance with Solvency II as at 31 December 2017, are included in the appendix to this SFCR.

The amounts disclosed in this SFCR are consistent with the amounts in the Annual Report, in thousands of euros unless stated otherwise. To comply with the Solvency II legislation, the amounts in the QRTs are in thousands of euros.

The Solvency ratio, as well as the amounts disclosed in this SFCR are not final until filed with the regulators.

Chapter A 'Business and performance' describes the overall business profile and structure of NN Leven. It also provides insight into the underwriting and investment performance of NN Leven. Chapter B 'Governance system' explains the organisational governance structure and looks into the role and execution of key Solvency II functions. Chapter C 'Risk profile' analyses NN Leven's exposure to financial and non-financial risks and explains the risk mitigation techniques in place. Chapter D 'Valuation for group solvency purposes' elaborates on the differences in presentation and measurement of balance sheet elements between Solvency II and International Financial Reporting Standards ('IFRS'). Chapter E 'Capital management' discusses the composition of available and Eligible Own Funds and the calculation of the Solvency Capital Requirement ('SCR').

## Material changes in 2017

NN Leven is part of NN Group N.V. ('NN Group'). In 2017, NN Group acquired all issued and outstanding ordinary shares in the capital of Delta Lloyd N.V. ('Delta Lloyd'). The legal merger between NN Group Bidco B.V. (a 100% subsidiary of NN Group N.V.) and Delta Lloyd became effective on 1 June 2017. Following the acquisition, NN Group started to combine Delta Lloyd with the Dutch and Belgian activities of NN Group.

## **Eligible Own Funds**

Solvency II requires to hold Eligible Own Funds for covering Solvency Capital Requirement. The Eligible Own Funds are classified in three tiering categories. The tiering classification is prescribed in the Solvency II Legislation, as not all own-fund items are considered to be able to fully absorb losses in the event of winding-up proceedings. Tier 1 own-fund items are the highest grade capital and Tier 3 items are the lowest grade capital.

## **Eligible Own Funds**

| In EUR thousand                      | 2017      | 2016      |
|--------------------------------------|-----------|-----------|
| Tier 1 (restricted and unrestricted) | 6,464,592 | 6,393,197 |
| Tier 2                               | 674,315   | 685,832   |
| Tier 3                               | 530,942   | 565,650   |
| Total Eligible Own Funds             | 7,669,849 | 7,644,679 |

Eligible Own Funds increased by EUR 25 million from EUR 7,645 million at 31 December 2016 to EUR 7,670 million at 31 December 2017. The increase reflects operating capital generation and positive market impacts offset by dividend payments to the parent company.

## Impact of long term guarantees and transitional measures

The quantification of the impact of a change to zero of the volatility adjustment on NN Leven's financial position – represented by an adjustment on the amount of technical provisions, the SCR, the basic own funds and the Eligible Own Funds is included paragraph 'Matching and volatility adjustment, transitional measures and transitional risk-free interest rate term structure' on pages 20-21 in Section D.2 and QRT S.22.01.21 'Impact of long term guarantees and transitional measures' in the Appendix.

| Business and Syste<br>performance gover | m of<br>nance Risk profile | Valuation for<br>Solvency<br>purposes | Capital<br>management |
|---|----------------------------|---------------------------------------|-----------------------|
|---|----------------------------|---------------------------------------|-----------------------|

## Summary continued

## **Solvency Capital Requirement**

NN Leven uses the Partial Internal Model ('PIM') approved by DNB to measure SCR

## **Solvency Capital Requirement**

| In EUR thousand                                 | 2017       | 2016       |
|---|------------|------------|
| Market Risk                                     | 2,718,024  | 2,993,637  |
| Non-market risk                                 | 3,097,455  | 3,244,081  |
| Diversification                                 | -1,453,698 | -1,616,382 |
| Partial Internal Model BSCR                     | 4,361,781  | 4,621,336  |
| Operational Risk                                | 325,154    | 328,601    |
| Capital add-on                                  | -6,600     | -          |
| Loss-Absorbing Capacity of Technical Provisions | -91,516    | -50,219    |
| Loss-Absorbing Capacity of Deferred Taxes       | -1,049,207 | -1,128,718 |
| Total Solvency Capital Requirement              | 3,539,612  | 3,771,000  |

## NN Leven's Solvency II Capital ratio

The following table presents the solvency ratio of NN Leven at year-end 2017 (and reported at year-end 2016).

## Solvency ratio

| In EUR thousand                    | 2017      | 2016      |
|------------------------------------|-----------|-----------|
| Eligible Own Funds (EOF)           | 7,669,849 | 7,644,679 |
| Minimum Capital Requirement (MCR)  | 1,592,825 | 1,696,950 |
| Solvency Capital Requirement (SCR) | 3,539,612 | 3,771,000 |
| Surplus                            | 4,130,237 | 3,873,680 |
| Ratio (%) (EOF/SCR)                | 217%      | 203%      |

NN Leven was adequately capitalised at year-end 2017 with a Solvency II ratio of 217%. The Solvency II ratio of NN Leven increased from 203% to 217%.



## **Business and performance**

## A. Business and performance

#### Introduction

This chapter of the SFCR contains general information on NN Leven, a simplified group structure and NN Leven's financial performance over 2017.

## A.1 Business

#### General

Reference is made to the section 'NN Group and NN Leven at a Glance' in the 2017 Annual Report of NN Leven for the legal form of NN Leven and NN Leven's position within the legal structure of NN Group.

The supervisory authority responsible for financial supervision of NN Leven:

Dutch Central Bank Westeinde 1 1017 ZN Amsterdam The Netherlands

The contact details of NN Leven's external auditor are:

Dhr. W. (Wim) Teeuwissen RA KPMG Accountants N.V. Papendorpseweg 83 3528 BJ Utrecht The Netherlands

Information on the appointment of the external auditor is included in the section 'Corporate governance- External auditor' in the 2017 Annual Report of NN Leven.

## **Qualifying holdings**

A 'qualifying' holding is a direct or indirect holding in NN Leven which represents 10 % or more of the capital or of the voting rights or which makes it possible to exercise a significant influence over the management of that undertaking.

NN Leven is a fully owned subsidiary of Nationale-Nederlanden Nederland B.V. ('NN Nederland') which in turn is a fully owned subsidiary of NN Insurance Eurasia N.V. ('NN Eurasia'). NN Eurasia is fully owned by NN Group.

As at 31 December 2017, there were no holders of qualifying holdings in NN Group.

#### Material lines of business and related undertakings

Reference is made to section 'NN Group and NN Leven at a Glance- NN Leven' and section 'Report of the Management Board' in the 2017 Annual report of NN Leven for more information on the material lines of business of NN Leven.

For information on any significant business events or other events that have occurred over the reporting period reference is made to section 'Report of the Management Board- Financial developments' in the 2017 Annual Report of NN Leven and note 40 'Other events' in the 2017 Consolidated annual accounts of NN Leven.

Reference is made to Note '36 Principal subsidiaries' in the 2017 Consolidated annual accounts of NN Leven for a list of material related undertakings and a description of the legal structure of NN Leven. Reference is made to the section 'Corporate governance' of the 2017 Annual Report of NN Leven for information on the governance and organisational structure of NN Leven.

| Business and<br>performanceSystem of<br>governanceValuation for<br>Solvency<br>purposesCapital<br>manage | ment |
|--|------|
|--|------|

## Business and performance continued

## Simplified group structure

The simplified group structure as at 31 December 2017 is as follows:



As of 1 January 2018 Delta Lloyd Bank N.V. and Delta Lloyd Asset Management N.V. are merged into NN Bank N.V. and NN Investment Partners B.V. respectively.
 As of 1 February 2018 Delta Lloyd Life N.V. (Belgium) has been transferred to NN Continental Europe Holdings B.V.
 As of 1 March 2018, Delta Lloyd Schadeverzekering N.V. is transferred to Nationale-Nederlanden Nederland B.V.

## Business and performance continued

## A.2 Underwriting Performance (see A.3 below)

## **A.3 Investment Performance**

NN Leven's operating result is analysed through a margin analysis, which includes the investment margin (investment performance), fees and premium-based revenues and the technical margin (underwriting performance). For information on underwriting and investment performance per material line of business, reference is made to the section 'Report of the Management Board- Financial development' in the 2017 Annual Report of NN Leven. For the underwriting performance, reference is made to QRT S.05.01.02 'Premiums, claims and expenses by line of business' and QRT S.05.02.01 'Premiums, claims and expenses by country' in the Appendix.

Further reference is made to Note 18 'Investment income' in the 2017 Consolidated annual accounts of NN Leven for information on income and expenses arising from investments by asset class and the components of such income and expenses.

Gains and losses on investments recognised directly in equity are disclosed in Note 11 'Equity'- revaluation reserve and in the Consolidated statement of comprehensive income in the 2017 Consolidated annual accounts of NN Leven.

Information on investment in securitisations is included in Note 37 'Structured entities' in the 2017 Consolidated annual accounts of NN Leven. Most of the investments in securitisations issued by third parties relate to debt instruments of structured entities regarding assetbacked securities, classified as loans. Further reference is made to Note 4 'Available-for-sale investments' in the 2017 Consolidated annual accounts of NN Leven for more information on these investments in structured entities.

## A.4 Performance of other activities

Other material income and expenses incurred over 2017 are disclosed in notes 17-24 in the 2017 Consolidated annual accounts of NN Leven and the section 'Report of the Management Board- Financial development' in the 2017 Annual Report of NN Leven. Leasing arrangements are included in Note 24 'Other operating expenses' and future rental commitments are disclosed in Note 34 'Contingent liabilities and commitments' in the 2017 Consolidated annual accounts of NN Leven.

## A.5 Any other information

Reference is made to section 'Report of the Management Board- Financial development' in the 2017 Annual Report of NN Leven.

# System of governance

## **B. System of governance**

## Introduction

This chapter of the SFCR contains information on the system of governance of NN Leven in addition to governance information included in the 2017 Annual Report of NN Leven. The additional information includes relevant committees within the Management Board (hereafter 'MB'), a description of the main roles and responsibilities of key functions and NN Leven's approach to the 'fit and proper' requirements and to the Own Risk and Solvency Assessment.

## B.1 General information on the system of governance

This chapter describes the Risk and Finance Committee Structure and explains the responsibilities, members and interdependencies of each committee.

Over the course of 2017, NN Group reviewed its system of governance and considered improvements to its control framework. As a result, an updated system of governance was put in place as of January 2017. Framework improvements were implemented over the course of 2017. As the system of governance of NN Group also applies for NN Leven, these changes in the NN Group control framework are also applicable to NN Leven.

This chapter sets out the governance and control framework effective in 2017.

## Structure of governance and changes in system of governance

For a description of the structure of NN Group's administrative, management and supervisory body, reference is made to the Corporate Governance section and the Report of the Supervisory Board, both included in the NN Group 2017 Financial Report and to the NN Group website: <a href="https://www.nn-group.com/Who-we-are/Corporate-governance/Corporate-governance.htm">https://www.nn-group.com/Who-we-are/Corporate-governance/Corporate-governance.htm</a>. These sources also describe the main roles and responsibilities of these bodies, provide a brief description of the segregation of responsibilities within these bodies and describe relevant committees that exist within them.

During 2017, NN Leven splitted the Model Committee into two Model Committees, one for Pricing & Valuation models and one for Risk models. Next to that no material changes in the system of governance were made.

## **Management Board committees**

The Management Board of NN Leven is responsible for defining, installing, and monitoring the risk management organisation in order to ensure its control systems are effective.

The MB, or its (sub) committees, approves all risk management policies as well as the quantitative and qualitative elements of NN Leven's risk appetite. The Board reports and discusses these topics with the Supervisory Board, on a regular basis.

While the Board retains responsibility for risk management, it has delegated certain responsibilities to committees which are responsible for day-to-day risk and finance related management decision-making, processes and controls. The following committees are in place: the Asset & Liability Committee, the Non-Financial Risk Committees, the Model Committees and the Crisis Committee. Representation in the various committees is provided from the relevant risk departments.



Reference is also made to Note 41 'Risk management' in the 2017 Consolidated annual accounts of NN Leven.

#### Authority, resources and operational independence of key functions

The key functions are positioned independently from the business (2nd line). These functions have, including but not limited to, strong hiring, career development and succession planning, appraisal as well as termination of employment rights to ensure adequate resources, and to allow them to act independently and with authority.

| Business and System of governance | Risk profile | Valuation for<br>Solvency<br>purposes | Capital<br>manage |
|-----------------------------------|--------------|---------------------------------------|-------------------|
|-----------------------------------|--------------|---------------------------------------|-------------------|

## System of governance continued

The sections below further describe how the key functions have the necessary authority, resources and operational independence to carry out their tasks and how they report to and advise the MB of NN Leven.

## Roles and responsibilities of key functions

NN Leven has organised its Solvency II key functions (Risk Management, Internal Audit, Compliance and Actuarial Function) in accordance with the applicable Solvency II regulations. All key function holders within NN Leven have passed DNB fit and proper test. The Solvency II key functions are able to carry out their duties objectively and free from undue influence and can report relevant findings directly to the Board.

For further details regarding the Solvency II key functions reference is made to Note 41 'Risk management' in the 2017 Consolidated annual accounts of NN Leven.

Reference is made Note 22 'Staff expenses' as disclosed in the 2017 Consolidated annual accounts of NN Leven for information on the remuneration policy and practices regarding administrative, management and supervisory bodies and employees.

#### **Transactions with related parties**

Reference is made to Note 38 'Related parties' and Note 39 'Key management personnel compensation' in the 2017 Consolidated annual accounts of NN Leven for information about material transactions during the reporting period. Section B.7 in this SFCR contains more information on intra-group outsourcing arrangements. Transactions with people who exercise a significant influence on NN Leven and with members of the Management Board and Supervisory Board are disclosed in Note 39 'Key management personnel compensation' in the 2017 Consolidated annual accounts of NN Leven.

## Adequacy of system of governance

The assessment of the adequacy of the system of governance of NN Leven to the nature, scale and complexity of the risks inherent to its business is disclosed in Note 41 'Risk management' in the 2017 Consolidated annual accounts of NN Leven.

#### Consistent use of risk management, internal control systems and reporting procedures

Reference is made to Note 41 'Risk management' in the 2017 Consolidated annual accounts of NN Leven for a description of how the risk management and internal control systems and reporting procedures are implemented consistently throughout NN Leven.

## **B.2 Fit and proper requirements**

For a description of NN Leven's specific requirements concerning skills, knowledge and expertise applicable to the persons who manage NN Leven, reference is made to Note 41 'Risk management' in the 2017 Consolidated annual accounts of NN Leven. Requirements concerning skills, knowledge and expertise applicable to people who have other key functions, are included in the respective job profiles.

In accordance with the NN Group Governance Manual and applicable HR policies, the persons who effectively run NN Leven and the persons fulfilling key functions should be fit and proper. During recruitment all candidates must have the professional qualifications, knowledge and experience that are required for sound and prudent management ('fit') and be of good repute and have integrity ('proper'). Where applicable the candidates must pass the DNB or AFM fit and proper test.

All persons holding key functions are assessed against their performance objectives, leadership behaviours and any other requirements from their job profiles during the annual performance cycle and specifically during the year-end appraisal.

## B.3 Risk management system including the own risk and solvency assessment

## Description of NN Leven 's risk management system

Reference is made to Note 41 'Risk management' in the 2017 Consolidated annual accounts of NN Leven for a description of the risk management system comprising of strategies, processes and reporting procedures, and how NN Leven is able to effectively identify, measure, monitor, manage, and report, on a continuous basis, the risks on an individual and aggregated level, to which NN Leven is or could be exposed. In the same note, a description is included of how the risk management system including the risk management function are implemented and integrated into the organisational structure and decision-making process of NN Leven.

#### **Own Risk and Solvency Assessment**

Business strategy and objectives, key risk appetite statements, risk and capital management are aligned in the Own risk and Solvency Assessment ('ORSA') in synchronisation with the yearly medium-term business plan. The ORSA report supports the MB in assessing the overall risk and capital profile of the business under a wide range of scenarios.

The ORSA is defined as the entirety of the processes and procedures employed to identify, assess, monitor, manage and report the short and long term risks an insurance legal entity as NN Leven faces or may face and to determine the own funds necessary to ensure that the entity's overall solvency needs are met at all times. In particular, the ORSA:

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## System of governance continued

- Is a specific instrument within NN Leven's risk management system: it is a high level forward looking analysis on capital adequacy under a wide range of scenarios based on the current and emerging risk profile of an entity, given its strategy and risk appetite
- Does not serve to calculate the capital requirement, although capital add-ons can be considered as a result of the ORSA
- Shall be an integral part of business planning. As such, the ORSA is linked to the strategic management process and related decisionmaking framework as illustrated below:



## **Regular frequency**

NN Leven prepares an ORSA at least once a year. In the ORSA, NN Leven articulates its strategy and risk appetite; describes its key risks and how they are managed; analyses whether or not its risks and capital are appropriately modelled; and evaluates how susceptible the capital position is to shocks through stress testing and scenario testing. Stress testing examines the effect of exceptional but plausible scenarios on the capital position of NN Leven. Stress testing can also be initiated outside ORSA, either internally or by external parties such as DNB and the European Insurance and Occupational Pensions Authority ('EIOPA'). The ORSA includes a forward looking overall assessment of NN Leven's solvency position in light of the risks it holds.

## Monitoring between regular ORSAs: possible ad-hoc ORSA

To the extent necessary, the outcomes of the ORSA are translated in ad-hoc ORSA triggers (i.e. events that lead to a significant shock in the risk profile and/or capital position), relevant metrics and/or indicators and management actions for identified material risks. Monitoring of the same is part of the regular (Finance & Risk) control cycle. Developments are documented in internal Finance & Risk reports and discussed during board and/or delegated committee meetings. The CRO within NN Leven is responsible for identifying the need of a (partial) ad-hoc ORSA. Head Office will be informed as soon as possible when the decision for a(n) (partial) ad-hoc ORSA is made. In such cases, DNB is also informed.

## The regular ORSA process as undertaken within NN Leven

## Strategy and risk appetite

A thorough assessment of strategy is done once a year or when material developments in the (external or internal) environment give rise to an earlier re-assessment. Yearly assessments are made in the first half of the year whether to adjust the strategy for developments in the past year and/or revised assumptions on the future. Setting (and adjusting) the risk appetite is inextricably part of strategy setting (and adjusting).

## **Risk Assessment**

Key to the ORSA is the identification of potentially solvency threatening risks, given the strategy and risk appetite. Basis for this risk assessment is NN Leven's risk taxonomy. Modelled risks are subject to an appropriateness test (see below) and additional statistical stress testing (see below), both contributing to adequate capitalisation of these risks. Focus is therefore on non-modelled risks.

## Appropriateness test of regulatory capital calculation

The assumptions and models for calculating regulatory solvency requirements are assessed against the actual risk profile. Differences are analysed in terms of future model improvements and/or non-modelled risks. The outcome of the analysis may lead to mitigating actions to overcome model shortcomings. If the deviations or uncertainties are considered material, quantification of the deviation is necessary in order to consider a (temporary) self-imposed capital add-on.

## Capital and capital projections

The recognition and valuation bases for internal capital projections are the same as those used for regulatory solvency reporting and are consistent with the best-estimate assumptions and parameters used for the Business Plan best estimate financial forecasts, among others

the yearly updated Macro Economic Scenario. Expected regulatory developments (like a decrease in Ultimate Forward Rate level) are included in the Capital projections.

The Actuarial Function Holder is to confirm that the base-case and projected technical provisions represent a true and fair view of future liabilities. The Actuarial Function Holder also provides input concerning the risks arising from the calculation of technical provisions.

Regulatory solvency is at the heart of the ORSA: NN Leven must ensure that it is able to meet the regulatory required solvency ratio at all times. In addition, NN Leven assesses:

- The quantity and quality of Own Funds over the Business Plan period;
- The composition of Own Funds across tiers and how this composition may change as a result of redemption, repayment and maturity dates during the Business Plan period.

#### Stress testing and overall assessment of capital adequacy

Based on the Business Plan and the outcomes of the ORSA risk assessment, (reverse) stress scenarios and their parameters are developed and documented. The MB is responsible for identifying the key uncertainties and the related scenarios.

Scenario testing, as well as (reverse) stress testing is required for each ORSA. When the outcomes of performed stress tests show solvency ratios dropping below 100%, realistic strategies for recovering the solvency ratio will be considered and documented in the ORSA report. One of the management actions is a capital downstream to restore solvency ratio.

Ultimately, after the assessments and considerations (including formulated management actions) the ORSA is to conclude whether, going forward, NN Leven is adequately capitalised under a wide range of scenarios over the planning horizon.

## Governance of NN Leven's Partial Internal Model

For the model governance and validation process, reference is made to Note 41 'Risk management' in the 2017 Consolidated annual accounts of NN Leven.

The model governance and validation function aims to ensure that NN Leven's models are fit for their intended purpose. Models and their disclosed metrics are approved by the Model Committee. The findings of the model validation function are also regularly reported to the Model Committee. This committee is responsible for modelling policies, processes, methodologies and parameters which are applied within NN Leven. Furthermore, the model validation function carries out validations of risk and valuation models particular those related to Solvency II.

## **B.4 The Internal control system**

Reference is made to Note 41 'Risk management' in the 2017 Consolidated annual accounts of NN Leven for a description of the implementation of the Internal control system.

## **B.5 Internal audit function**

Reference is made to Note 41 'Risk management' in the 2017 Consolidated annual accounts of NN Leven for a description of the implementation of the Internal control system, compliance, internal audit and actuarial function.

## **B.6 Actuarial function**

Reference is made to Note 41 'Risk management' in the 2017 Consolidated annual accounts of NN Leven for a description of the implementation of the Internal control system, compliance, internal audit and actuarial function.

## **B.7 Outsourcing**

NN Leven outsources part of its operational and IT processes to external service providers. In the normal course of business, NN Leven enters into various transactions with related parties. Parties are considered to be related if one party has the ability to control or exercise significant influence over the other party in making financial or operating decisions. Related parties of NN Leven include, amongst others, its associates, share service centres, joint ventures, key management personnel and the defined benefit and contribution plans.

NN Leven has internal policies ensuring that a formal written agreement is in place with the service provider, covering the relevant business and financial risks. NN Leven has an identified number of improvement actions which are closely monitored by the management of NN Leven to ensure maintaining adequate control over outsourcing activities. Next to that no possible significant provisions for doubtful debts or individually significant bad debt expenses may be missing on outstanding balances with related parties during the integration with Delta Lloyd Leven.

## **B.8** Any other information

Reference is made to the section 'Corporate Governance' in the 2017 Annual report of NN Leven and the NN Group website: <u>https://www.nn-group.com/Who-we-are/Corporate-governance/Corporate-governance</u> for other material information regarding the system of governance of NN Leven and NN Group.

## C. Risk Profile

## Introduction

This chapter of the SFCR contains information on the risk profile of NN Leven and information on the 'prudent person principle' used when investing.

## Risk profile per risk category

Reference is made to Note 41 'Risk management' in the 2017 Consolidated annual accounts of NN Leven for quantitative and qualitative information on the risk profile per risk category. The following risk categories have been disclosed:

## C.1 Non-market risk (Underwriting risk)

Non-market risk is disclosed as insurance risk and business risk in Note 41 'Risk management' in the 2017 Consolidated annual accounts of NN Leven

## C.2 Market risk

Market risk is disclosed in Note 41 'Risk management' in the 2017 Consolidated annual accounts of NN Leven.

## C.3 Counterparty Default risk (Credit risk)

Counterparty Default risk is disclosed in Note 41 'Risk management' in the 2017 Consolidated annual accounts of NN Leven.

## C.4 Liquidity risk

Liquidity risk is disclosed in Note 41 'Risk management' in the 2017 Consolidated annual accounts of NN Leven.

## C.5 Operational risk

Operational risk is disclosed in Note 41 'Risk management' in the 2017 Consolidated annual accounts of NN Leven.

## C.6 Other material risks

## **Business conduct risk**

Business conduct risk is the risks related to unethical or irresponsible corporate behavior, inappropriate employee behavior and customer suitability of products. For more details reference is made to Note 41 'Risk management' in the 2017 Consolidated annual accounts of NN Leven.

## **Concentration risks**

NN Leven does not have an appetite for risk concentration and manages concentration risk with a limit structure. During the year no limit breaches occurred. More information on the mitigation of several types of concentration risk is included in Note 41 'Risk Management' in the 2017 Consolidated annual accounts of NN Leven.

## Investing assets in accordance with the 'Prudent person principle'

## Acceptable investments

NN Leven complies with the prudent person principles as set out in Directive 2009/138/EC/article 132: Prudent person principle. NN Group maintains a Global Asset List, which contains all asset classes in which NN Group and its subsidiaries are allowed to invest. Before an asset class is approved for this list, a New Investment Class Approval & Review Procedure ('NICARP') must be followed.

The NICARP describes all relevant considerations on return, risk and operational consequences that are relevant to the decision whether a Business Unit of NN Group should invest in the proposed investment class.

The NICARP request does not describe a specific transaction, but is a proposal for the potential investment in an investment class. The NICARP should nevertheless address the quantitative impact of potential future investments and include proposed portfolio limits for the product. This should always be in line with NN Group internal policies as well as external constraints (such as regulatory limits).

## Governance of investments

Within the Three Lines-of-Defence model, investments are managed in the first line through a dedicated Central Investment Office, reporting directly to the CEO of NN Group. Within NN Leven the second line function Investment Risk Management reports to the Head of Risk management who then reports to the CRO of NN Leven. Investment office and the CRO meet regularly in the NN Leven Asset & Liability Management Committee (ALCO), and in the Group Risk & Finance Committee for the most material issues. Operational activities regarding investments are performed by NN Investment Partners, which also provides (unsollicited) advice on proposed or current investments. All investment related activities are performed within the boundaries as set by NN Group Policies. These include among others the following:

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## Risk profile continued

- Asset-Liability Management Policy
- Asset Class Standard (NICARP)
- Investment Management Policy
- Concentration Risk Standard
- Financial Regulations Standard
- Responsible Investment framework policy

## Investment Office

Based on market views, NN Leven requirements and input from its assets managers, the Investment Office which is headed by the Chief Investment Officer, will:

- Propose Investment Strategies for NN Leven
- Prepare proposals for mandates and for delegated approval levels for the Asset Managers
- · Prepare Performance Measurement Guidelines of all investment decisions taken under the delegated approval authorities

NN Investment Partners will prepare a market view, propose investment ideas based on market developments and NN Leven requirements and decides on investment decisions within allocated limits/thresholds. NN Investment Partners executes the Performance Measurement Guidelines as prepared by the Investment Office.

## Asset & Liability Management Committee

The main responsibility of the ALCO is the oversight of risks related to the matching of assets and liabilities (Asset & Liability Management) and the consequences for the balance sheets and P&L of NN Leven. It includes risks related to the prevailing market circumstances and the ALCO discusses possible adverse consequences. The ALCO also monitors and advises on insurance and business risks that can impact the balance sheet or P&L. The ALCO operates within the delegated authority of the NN Leven Board.

NN Leven ALCO monitors investment performance and decides on investment strategy, investment mandates as well as investment proposals within risk limits as set by the ALCO at NN Group:

- Investment strategy: the NN Leven ALCO decides on its investment strategy by taking the approved NN Group investment strategy into consideration.
- Investment mandates: the NN Leven ALCO decides on the investment mandates with its selected Asset Managers, taking the GIC recommendations into consideration. This includes deciding on the approval authority delegated by the NN Leven ALCO to the GIC regarding allocation of asset classes within bandwidths as determined by NN Leven SAA, and to the Asset Managers.
- Investment proposals: the NN Leven ALCO will decide on investment proposals where there is no approval authority delegated by the NN Leven ALCO.

## **Sensitivity analysis**

Reference is made to Note 41 'Risk Management' in the 2017 Consolidated annual accounts of NN Leven for a description of the methods used, the assumptions made and the outcome of stress testing and sensitivity analysis for material risks and events.

#### Risk exposure from off-balance sheet positions and transfer of risk to special purpose vehicles

Reference is made to Note 41 'Risk management' in the 2017 Consolidated annual accounts of NN Leven regarding the risk exposure of NN Leven, including the exposure arising from off-balance sheet positions and describing the measures used to assess these risks. As at 31 December 2017, no material risks were transferred to special purpose vehicles outside NN Group.

## C.7 Any other information relevant to the risk profile of NN Leven

## Techniques used for mitigation of risk

Reference is made to Note 41 'Risk management' in the 2017 Consolidated annual accounts of NN Leven for a description of the techniques used for mitigating risks and the processes for monitoring the continued effectiveness of these risk mitigation techniques.

## Valuation for Solvency purposes

## D. Valuation for Solvency purposes

## Introduction

This chapter of the SFCR contains information on the valuation for solvency purposes of assets, insurance liabilities and other liabilities of NN Leven and explains the differences with their valuations in the in the 2017 Consolidated annual accounts of NN Leven.

## Reconciliation IFRS Balance sheet to Solvency II Balance sheet

| As at 31 December 2017. In EUR thousand                                      | IFRS       | Consolidation<br>Scope | Presentation<br>differences | Valuation<br>differences | Solvency II |
|--|------------|------------------------|-----------------------------|--------------------------|-------------|
| Assets   |            |                        |                             |                          |             |
| Cash and cash equivalents  | 200,837    | -159,395               | -5,227                      | 0                        | 36,215      |
| Financial assets at fair value through profit or loss and Available-for-sale |            |                        |                             |                          |             |
| investments  | 64,610,141 | -1,138,906             | 757,323                     | 0                        | 64,228,558  |
| Loans  | 19,596,214 | 200,349                | 95,846                      | 1,644,196                | 21,536,605  |
| Reinsurance contracts  | 1,151,150  | 0                      | 0                           | -14,819                  | 1,136,331   |
| Associates and joint ventures  | 3,417,387  | 2,417,388              | 0                           | 9,932                    | 5,844,707   |
| Real estate investments  | 2,226,793  | -2,226,793             | 0                           | 0                        | 0           |
| Property and equipment   | 22         | -3                     | 0                           | 0                        | 19          |
| Intangible assets  | 7,175      | 0                      | 0                           | -7,175                   | 0           |
| Deferred acquisition costs   | 236,637    | 0                      | 0                           | -236,637                 | 0           |
| Deferred tax assets  | 0          | 0                      | 1,007,760                   | 6,033                    | 1,013,793   |
| Other assets   | 2,488,919  | -150,848               | -916,498                    | 0                        | 1,421,574   |
| Total assets   | 93,935,275 | -1,058,207             | 939,205                     | 1,401,531                | 95,217,804  |
| Equity   |            |                        |                             |                          |             |
| Shareholders' equity (parent)  | 15,202,686 | 0                      | 0                           | -8,155,312               | 7,047,374   |
| Minority interests   | 665,424    | -665,424               | 0                           | 0                        | 0           |
| Undated subordinated notes   | 450,000    | 0                      | -450,000                    | 0                        | 0           |
| Total equity / Excess of assets over liabilities                             | 16,318,110 | -665,425               | -450,000                    | -8,155,312               | 7,047,374   |
| Liabilities  |            |                        |                             |                          |             |
| Subordinated debt  | 600.000    | 0                      | 481.552                     | 55,326                   | 1,136,880   |
| Other borrowed funds   | 209.939    | -3,860                 | 293                         | 88                       | 206,460     |
| Insurance and investment contracts   | 71,326,558 | 0                      | 0                           | 12,198,291               | 83,524,849  |
| Financial liabilities at fair value through porift or loss                   | 1,229,750  | -346                   | -15,965                     | 0                        | 1,213,439   |
| Deferred tax liabilities   | 2,001,839  | -312,735               | 1,007,760                   | -2,696,864               | 0           |
| Other liabilities  | 2,249,079  | -75,841                | -84,435                     | 0                        | 2,088,803   |
| Total liabilities  | 77,617,165 | -392,782               | 1,389,206                   | 9,556,841                | 88,170,430  |
| Total equity and liabilities   | 93,935,275 | -1,058,207             | 939,205                     | 1,401,531                | 95,217,804  |

Reference is made to the 2017 Consolidated annual accounts of NN Leven for more detailed information on the IFRS Balance sheet. Reference is made to QRT S.02.01.02 'Balance sheet' in the Appendix for the full Solvency II Balance sheet. The values in these tables may differ from those included in Note 41 'Risk Management' in the 2017 Consolidated annual accounts of NN Leven due to classification and valuation differences to reflect a risk management view.

For Solvency II reporting, Principal subsidiaries are not consolidated line-by-line while they are for IFRS reporting. The impact from this difference is reflected above in the column 'Consolidation scope'.

The valuation and presentation differences between IFRS and Solvency II resulting from differences in accounting principles and methods are explained in the sections below. For items where no valuation difference occurred, reference is made to Note 1 'Accounting policies', Note 26 'Fair value of financial assets and liabilities' and Note 27 'Fair value of non-financial assets' in the 2017 Consolidated annual accounts of NN Leven for a description of the bases, methods and main assumptions used for their valuation.

The most important presentation differences are the presentation of money market funds, Deferred taxes and accrued interest. The most important valuation differences are related to loans and technical provisions.

Details of these and other valuation, presentation and consolidation differences are included in Section D.1- D.3 below.

## **D.1 Assets**

## Accounting principles, methods and main assumptions used

In general, Solvency II valuation requires a market consistent approach to the valuation of assets and liabilities. The default reference framework for valuing assets and liabilities, other than technical provisions, is IFRS as endorsed by the European Union ('IFRS-EU'). The exception is if the IFRS valuation principle does not reflect a market consistent valuation (e.g. amortised cost). For main assumptions used in fair valuing assets, reference is made to Note 26 'Fair value of financial assets and liabilities' and to Note 27 'Fair value of non-financial assets' in the 2017 Consolidated annual accounts of NN Leven.

#### Cash and cash equivalents

In the IFRS balance sheet, cash and cash equivalents are reported at the notional amount. In the Solvency II balance sheet, cash and cash equivalents are reported at market value. There are no significant valuation differences between IFRS and Solvency II for cash and cash equivalents as the market value is not significantly different from the notional value. Total presentation differences of EUR -5 million as at 31 December 2017 are caused by the presentation of short term deposits and money market funds as loans in the Solvency II balance sheet. Differences due to a different scope of consolidation amounted to EUR -159 million as at 31 December 2017.

## Investments (excluding loans)

In the IFRS balance sheet, investments are reported at fair value. In the Solvency II balance sheet, investments are reported at market value. There are no significant valuation differences between IFRS and Solvency II for investments as fair value generally equals market value. Presentation differences of EUR 757 million as at 31 December 2017 are caused by the presentation of accrued interest as part of the investments, instead of a separate presentation as accrual under IFRS. Solvency II requires accrued interest to be presented as part of the investments ('dirty market value') and not separately as other assets as in the 2017 Consolidated annual accounts of NN Leven ('clean market value').

Differences due to a different scope of consolidation amounted to EUR -1,139 million as at 31 December 2017.

#### Loans

In the IFRS balance sheet, loans are reported at amortised cost. In the Solvency II balance sheet, loans are reported at market value. For loans that are repriced frequently and have had no significant changes in credit risk, the carrying values in the 2017 Consolidated annual accounts of NN Leven represent a reasonable estimate of the market value for Solvency II. For other loans the market value is estimated by discounting expected future cash flows using a discount rate that reflects credit risk, liquidity and other current market conditions. The market value of mortgage loans is estimated by taking into account prepayment behaviour. Loans with similar characteristics are aggregated for calculation purposes.

Valuation differences between IFRS and Solvency II for loans represents the difference between amortised cost and market value of EUR 1,644 million as at 31 December 2017.

Presentation differences of EUR 96 million as at 31 December 2017 are caused by:

- The different presentation of accrued interest. Solvency II requires accrued interest to be presented as part of the loans ('dirty market value') and not separately as other assets as in the 2017 Consolidated annual accounts of NN Leven ('clean market value').
- Presentation of short term deposits and money market funds as loans under Solvency II, instead of their inclusion in cash and cash equivalents under IFRS.

Differences due to a different scope of consolidation amounted to EUR 200 million as at 31 December 2017.

#### **Reinsurance contracts**

Reference is made to section D2 'Technical provisions' of this SFCR.

#### Associates and joint ventures (Holdings in related undertakings)

In the IFRS balance sheet, associates and joint ventures are reported at net asset value (equity accounting).

In the Solvency II balance sheet, non-Solvency II entities are recognised as associates and measured at the local regulatory capital in accordance with the local (sectoral) rules. Valuation differences of EUR 10 million as at 31 December 2017 represents the difference between the value of the associates under IFRS and the local regulatory capital of these entities.

All holdings in related undertakings were either valued using quoted market prices in active markets or by using the adjusted equity method (when a stock listing was not available).

Differences due to a different scope of consolidation amounted to EUR 2,417 million as at 31 December 2017.

#### **Real estate investments**

In the IFRS balance sheet, real estate investments are reported at fair value. In the Solvency II balance sheet, real estate investments are reported at market value. There are no significant valuation differences between IFRS and Solvency II for real estate investments as fair value generally equals market value. Differences in real estate investments recognised in the IFRS and the Solvency II Balance sheets due to a different scope of consolidation amounted to EUR -2,227 million as at 31 December 2017.

#### **Property and equipment**

In the IFRS balance sheet, property in own use is reported at fair value. In the Solvency II balance sheet, property in own use is reported at market value. There are no significant valuation differences between IFRS and Solvency II for property in own use as fair value generally equals market value. In the IFRS balance sheet, equipment is reported at cost less depreciation. In the Solvency II balance sheet, equipment is reported at market value. There are no significant valuation differences between IFRS and Solvency II for equipment, as market value is generally not significantly different from depreciated cost.

#### Intangible assets

Intangibles such as software can be recognised and measured at a value other than nil if they can be sold separately and if there is a quoted market price in an active market for the same or similar intangible assets. As there is no quoted market price for NN Leven's intangible assets, it is valued at nil for Solvency II purposes.

#### **Deferred acquisition costs**

Deferred acquisition costs are not recognised for Solvency II purposes.

#### **Deferred taxes**

Under IFRS, deferred tax assets are part of the other assets. In the IFRS balance sheet, deferred taxes, other than deferred tax assets arising from the carry forward of unused tax credits and the carry forward of unused tax losses, are valued on the basis of the difference between the tax bases of assets and liabilities and their carrying values. A positive value to deferred taxes is only attributed where it is probable that future taxable profit will be available against which the deferred tax asset can be used, taking into account any legal or regulatory requirements on the time limits relating to the carry forward of unused tax losses or credits.

Reference is made to Note 25 'Taxation' of the 2017 Consolidated annual accounts of NN Leven for more information on the origin of the recognition of deferred tax assets and the amount and expiry date of deductible temporary differences, unused tax losses and unused tax credits for which no deferred tax asset is recognised in the IFRS balance sheet.

In the Solvency II balance sheet, deferred tax assets and liabilities are recognised and valued in conformity with IFRS. However, the differences in valuation of assets and liabilities as set out in sections D.1 'Assets', D.2 'Technical provisions' and D.3 'Other liabilities' result in an additional EUR 2,703 million of deferred tax assets (deferred taxes assets EUR 1,014 million, deferred taxes liabilities EUR -1,689 million) recognised in the Solvency II balance sheet as at 31 December 2017.

#### **Other assets**

In the IFRS balance sheet, other assets are reported at their notional amounts. In the Solvency II balance sheet, other assets (with the exclusion of deferred taxes) are reported at market value.

Presentation differences of EUR -917 million as at 31 December 2017 consist of the different presentation of accrued interest. Solvency II requires accrued interest to be presented as part of the interest bearing investments ('dirty market value') and not separately as other assets as in the 2017 Consolidated annual accounts of NN Leven ('clean market value').

Differences in other assets recognised in the IFRS and the Solvency II Balance sheets due to a different scope of consolidation amounted to EUR -151 million as at 31 December 2017.

#### **Changes in valuation bases**

During 2017, no material changes were made to the recognition and valuation bases, or estimations used, in the measurement of assets on the Solvency II balance sheet.

## **D.2 Technical provisions**

## Value of the technical provisions

The value of technical provisions, including the amount of the Best Estimate of Liabilities ('BEL') and the Risk Margin ('RM') is disclosed below separately for each material line of business as at 31 December 2017:

## Value of technical provisions by Solvency II Business Line

| As at 31 December 2017. In EUR thousand           | BEL        | Risk margin | Technical<br>provisions |
|---|------------|-------------|-------------------------|
| Technical provision by Solvency II Business line: |            |             |                         |
| 1. Life   | 66,044,836 | 3,100,034   | 69,144,870              |
| 2. Life similar to health                         | 9,213      | 190         | 9,403                   |
| 3. Index-linked and Unit-linked                   | 13,936,975 | 433,602     | 14,370,576              |
| Total   | 79,991,024 | 3,533,825   | 83,524,849              |

## Bases, methods and main assumptions used for solvency valuation

Technical Provisions are measured for Solvency II purposes as the sum of the BEL and a RM. The BEL is equal to the probability-weighted average of the present value of the future liability cash flows, based on the relevant risk-free interest rate term structure. The RM is defined as the amount that an empty (re)insurance entity is expected to require in excess of the BEL in order to take over and meet the (re)insurance obligations.

## Best estimate of liabilities

NN Leven uses cash flow models and best estimate assumptions to determine the BEL under Solvency II. Premiums, benefits, expenses and other relevant cash flows are projected for the policy term – subject to contract boundaries – and discounted at the currency specific risk-free interest rate term structure to allow for financial risk with currency specific Credit Risk Adjustments ('CRA') and a Volatility Adjustment ('VOLA'). This is the full-cash flow approach and is typical for traditional business. For unit-linked business, NN Leven mainly uses a method where margins are projected(expenses and charges) as investment risks are borne by the policyholder. Cash flows are either projected on a per policy basis or individual policies are grouped into representative model points.

Cash flows are projected along a sufficiently large number of future risk-free interest rate scenarios to allow for one-sided financial options and guarantees. This is typical for business with profit sharing on top of a fixed interest rate guarantee and unit-linked products with a return guarantee. The best estimate risk-free interest rate term structure is used in those instances where there are no embedded options or guarantees.

The cash flow projections consider management actions that can be taken to mitigate the loss to NN Leven, management policy covering the distribution of future discretionary benefits and the predictability and profit sharing of liability cash flows. The cash flow projections used in the calculation of the BEL are based on the best estimate assumptions. The cash flow projection reflects the expected realistic future demographic, legal, medical, technological, social, environmental and economic developments that will have a material impact on the BEL.

Assumptions underlying the BEL are portfolio-specific rather than entity-specific. Entity-specific assumptions are used only insofar as those assumptions enable the entity to better reflect the characteristics of the portfolio or where the calculation of the BEL in a realistic, reliable and objective manner without those assumptions is not possible.

NN Leven reports a relatively small portion of un-modelled Technical Provisions. For un-modelled business, in general Technical Provisions are estimated either by scaling of modelled business or by setting Solvency II Technical Provisions equal to IFRS provisions. Where these approaches are taken, the Actuarial Function Holder has provided an opinion that the approaches are acceptable given the materiality of the Technical Provisions.

## **Reinsurance and other recoverables**

The BEL are estimated gross, without deduction of the amounts recoverable from reinsurance contracts. The amounts recoverable from reinsurance contracts and expected losses due to counterparty default are calculated separately. The principles used to calculate the amounts recoverable are consistent with those underlying the calculation of the gross BEL.

## **Risk margin**

In addition to the BEL a RM is held to allow for non-hedgeable market and non-market risks. The calculation of the RM is performed by either explicitly calculating the SCR for each future year or by using a driver approach. Long-Term Guarantee ('LTG') measures are excluded from the calculation of the SCRs and in the discounting, when calculating the RM.

With the driver approach, the relevant sub-risk SCRs - either Internal Model or Standard Formula - are projected using appropriate risk drivers, multiplied by the cost of capital of 6% (net of tax), then discounted at the relevant risk free rate term structure. The sub-risk market value margins are aggregated using the relevant diversification factors. Note that this is a simplification as Solvency II requires the individual SCRs to be diversified at each future point in time. NN Leven's simplification does not lead to a material misestimation of the RM.

## Assumptions Non-financial assumptions

Assumptions are set for expenses, mortality, morbidity and other relevant insurance risks using historical experience of the insurance portfolio. Assumptions are reviewed by NN Leven at least annually and submitted to the Model Committee (MoC) for approval or for information, depending on materiality, following NN Leven's model governance. Note that Best estimate assumptions are approved by the Pricing and Valuation MoC whereas Risk assumptions are approved by the Risk MoC.

Policyholder behaviour regarding lapses, partial and full surrenders and paid-ups are taken into account subject to the boundaries of the contracts. Management actions are reflected in the cash flow projections. These are mostly current management actions related to dynamic decision rules in the asset liability models of NN Leven. Future management actions are assumed for portfolios including discretionary benefits.

Boundaries of insurance contracts are based on a detailed investigation of terms and conditions.

## **Financial assumptions**

NN Leven follows EIOPA requirements in determining the basic risk-free rates and the VOLA to determine the relevant currency specific risk free rate term structure for valuation of Technical Provisions. Because EIOPA curves are not available in time for NN Leven to start their valuations, NN Leven follows the EIOPA methodology to independently produce the curves. These are then compared to the published EIOPA curves when these are made available to ensure consistency between the EIOPA and the NN Leven manufactured curves. At year-end 2017, the EIOPA and NN Leven curves were identical.

## **Changes in assumptions**

During 2017, NN Leven reviewed their best estimate assumptions and updated them where necessary. The most material were changes to mortality and updates to the trend uncertainty driver used in the calculation of the RM both increasing the Own Funds.

## **Options and guarantees**

When establishing technical provisions at NN Leven, all material financial guarantees and contractual options included within the boundary of insurance and reinsurance policies are taken into account. In doing so, factors which may affect the likelihood that policyholders will exercise contractual options or realise the value of financial guarantees are analysed.

The intrinsic value of financials options and guarantees is reflected in the single (deterministic) cash flow projection of technical provisions. These include the interest rate guarantees implicit in traditional products as well as policyholder options such as paid-up, surrender etc. where material.

A stochastic model is required to determine the time value of options and guarantees (TVoG) where cash flows vary asymmetrically with market returns. The stochastic model uses a number of Monte Carlo simulations (typically, 1,000 to 3,500) to project future cash flows under various economic scenarios. The number of scenarios is set in order to reduce the simulation error to within the tolerance level. Currently, such error should be less than 1% of the best estimate liabilities, as determined by taking 80% confidence interval of the mean standard error of the simulations. NN Leven performs a test to ensure the simulation error is within the established limits and increase number of scenarios used if the test does not satisfy the requirements. Nearly the entire TVoG for NN Leven is from NN Leven's group pension business.

Dynamic policyholder behaviour has been reflected where it is deemed material to the valuation under the different economic environments reflected in the stochastic scenarios. Where future profit sharing is dependent on economic conditions, the variability is taken into account in the TVoG. Where management actions have been taken into account, these are consistent with policies signed-off by the respective boards.

The Actuarial Function Holder has assessed the allowances made in respect of options and guarantees in the technical provisions and the underlying assumptions, and came to the conclusion that such allowances are appropriate.

## Level of Uncertainty

For the level of uncertainty associated with the value of the technical provision, reference is made to the Own Funds at risk-Insurance risk in Note 41 'Risk Management' in the 2017 Consolidated annual accounts of NN Leven.

## Main differences between IFRS and Solvency II valuation of technical provisions

|   |            | Valuation   |             |
|---|------------|-------------|-------------|
| As at 31 December 2017. In EUR thousand           | IFRS       | differences | Solvency II |
| Technical provision by Solvency II Business line: |            |             |             |
| 1. Life   | 58,042,712 | 11,102,158  | 69,144,870  |
| 2. Life similar to health                         | 29,498     | -20,095     | 9,403       |
| 3. Index-linked and Unit-linked                   | 13,254,349 | 1,116,227   | 14,370,576  |
| Total   | 71,326,559 | 12,198,291  | 83,524,849  |

## Summary of main differences between IFRS and Solvency II as at 31 December 2017

At 31 December 2017, the valuation differences between the insurance and investment contracts recognised in the IFRS balance sheet and the technical provisions recognised in the Solvency II balance sheet of NN Leven amounted to EUR 12,198 million. Methods and models used in calculating the Solvency II technical provisions and IFRS insurance liabilities differ substantially. The main valuation differences between IFRS and Solvency II are outlined below:

- Insurance liabilities in the IFRS Balance sheet are established in accordance with IFRS 4 'Insurance Contracts'. Under IFRS 4, an insurer
  may continue its existing pre-IFRS accounting policies for insurance contracts, provided that certain minimum requirements are met.
  Upon adoption of IFRS-EU in 2005, NN Leven decided to continue the then existing accounting principles for insurance contracts under
  IFRS-EU
- The BEL in Solvency II is calculated as the probability-weighted average of the present value of future liability cash flows using best estimate assumptions
- A RM for non-hedgeable risks is added to the BEL to establish the Solvency II technical provisions
- Different interest rates are used for calculation of insurance and investment contracts under IFRS and Solvency II. For Solvency II a riskfree interest rate curve with credit risk and VOLA where applicable is used. NN Leven does not apply a matching adjustment. For IFRS a fixed interest rate/guaranteed technical interest rate is used
- The present value of future profits is recognised in Solvency II technical provisions but not in IFRS technical provisions
- The difference between IFRS and Solvency II technical provisions is primarily reflected in the Life Business line, where IFRS technical provisions largely reflect assumptions interest, mortality, morbidity, expense, etc. locked-in at policy issue, which can depart significantly from the best estimate assumptions reflected in the Solvency II provisioning.
- For index-linked and unit-linked insurance the IFRS technical provisions are equal to the fund value of these contracts. For Solvency II technical provisions, the present value of the margins is deducted from the fund value
- The valuation differences between IFRS technical provisions and Solvency II technical provisions described in the above paragraph also apply to reinsurance contracts

## Matching and volatility adjustment, transitional measures, and transitional risk-free interest rate-term structure

QRT S.22.01.21 'Impact of long term guarantees and transitional measures' in the Appendix provides the quantitative impact of excluding the so-called Long-Term Guarantee ('LTG') measures and Transitional measures from own funds and the SCR. QRT S.22.01.21 mandate disclosure of the quantitative impact of excluding:

- Transitional measures in respect of technical provisions
- Transitional measures in respect of interest rates
- Volatility adjustment
- Matching Adjustment

on:

- Technical provisions
- Basic own funds
- Eligible Own Funds to meet Solvency Capital Requirement
- Solvency Capital Requirement

All the elements of which the impact is excluded in this QRT are an integral part of the Solvency II framework. The resulting own funds and SCR should therefore not be seen as a replacement of, or alternative for, the own funds and SCR as determined in accordance with Solvency II. For NN Leven, the VOLA is of relevance given its liability profile and its approach to match cash-flows of these liabilities with corresponding fixed income instruments. Transitional measures in respect of technical provisions and interest rates and Matching Adjustment are not applied by NN Leven.

| Business and System of performance governance Risk profile purpo | Capital |
|--|---------|
|--|---------|

## Ultimate Forward Rate ('UFR')

At the end of 2017, the Ultimate Forward Rate ('UFR') for EUR under Solvency II is set at 4.2 % and is used for reporting the 2017 results. In April 2017, EIOPA published an updated methodology to derive the UFR, which is subject to approval by the European Commission. In line with the updated methodology, the calculated value of the UFR for EUR is 3.65%, but annual changes to the UFR will not be higher than 15 basis points. Therefore the UFR for EUR is expected to decrease from 4.2% to 4.05% for the first quarter of 2018.

## Volatility adjustment

NN Leven applies the yield curve as published by EIOPA for the calculation of the technical provisions under Solvency II. In line with Solvency II regulations, this yield curve includes a Volatility adjustment component. As at 31 December 2017, the level of the VOLA for the Euro currency was 4 bps.

The application of the VOLA resulted in a reduction of EUR 357 million in technical provisions, contributing EUR 268 million (after tax) to Basic own funds as at 31 December 2017. Excluding the VOLA from the calculation of technical provisions and SCR would increase the Eligible own funds by EUR 125 million as stated in QRT S.22.01.21 'Impact of long term guarantees and transitional measures' as included in the Appendix.

In the calculation of the SCR, NN Leven assumes no change to the VOLA after a shock-event, but reflects the illiquidity of liabilities in the asset shocks to ensure appropriate solvency capital requirements. This 'Dynamic VOLA' approach is approved by DNB, in particular to ensure appropriate risk incentives on asset allocation decisions. NN Leven also shocks all government bonds and its mortgage portfolio in the calculation of spread risk capital requirements. Under the Standard Formula no capital is required to be held against spread risk arising from these assets.

If the Dynamic VOLA would be excluded from the SCR calculation, the spread risk on government bonds and mortgages would need to be adjusted accordingly. However, for the completion of QRT S.22.01.21 'Impact of long term guarantees and transitional measures' in the Appendix, NN Leven is required to reflect only the impact of excluding the VOLA from Eligible Own Funds and the SCR, without adjusting for the spread risk on government bonds and mortgages.

The table below shows the impact of excluding both the Dynamic VOLA as well as spread risk on government bonds from the SCR, in combination with removing the VOLA from Eligible Own funds. In such scenario, the SCR would be EUR 1,346 million higher and Eligible Own Funds would be EUR 155 million lower.

## Amount without Long-Term Guarantees and transitional measures

|   |   | Impact of<br>volatility   |  |
|---|---|---|--|
|   | Amount with<br>Long Term<br>Guarantee<br>measures and | adjustment set<br>to zero and<br>eliminating<br>additional<br>credit spread | Amount<br>without Long-<br>Term<br>Guarantee<br>measures and |
|   |   |   |  |
|   | transitionals   | shock   | transitionals  |
| As at 31 December 2017. In EUR thousand                         | transitionals<br>(A)                                  | shock<br>(B)  | transitionals<br>(C) =(A)+(B)                                |
| As at 31 December 2017. In EUR thousand<br>Technical provisions |   |   |  |
|   | (A)   | (B)   | (C)=(A)+(B)  |
| Technical provisions  | <b>(A)</b><br>83,524,849                              | <b>(B)</b><br>356,570   | (C) =(A)+(B)<br>83,881,420                                   |

## **D.3 Other liabilities**

## Subordinated debt and Other borrowed funds

In the IFRS balance sheet, subordinated debt, debt securities issued and other borrowed funds are reported at amortised cost. In the Solvency II balance sheet, these borrowings are reported at market value, excluding an adjustment for NN Leven's own credit risk.

In Solvency II market value, (a change in) the own credit risk is not taken into account. The Solvency II market value of subordinated debt is estimated using discounted cash flows based on interest rates and credit spreads that apply to similar instruments. The Solvency II market value of other borrowed funds, is generally based on quoted market prices or, if not available, on prices estimated by discounting expected future cash flows using a current market interest rate and credit spreads applicable to the yield, credit quality and maturity.

Valuation differences between IFRS and Solvency II for Subordinated debt of EUR 55 million and other borrowed funds of EUR 0,1 million represent the difference between amortised cost and market value, excluding an own credit element.

Other presentation differences include the different presentation of accrued interest. Solvency II requires accrued interest to be presented as part of the interest bearing liabilities ('dirty market value') and not separately as other liabilities as in the 2017 Consolidated annual accounts of NN Leven ('clean market value'). In addition to this presentation difference, subordinated debt presented as equity under IFRS is

presented as liability under Solvency II. Total presentation differences for subordinated debt amounted to EUR 482 million as at 31 December 2017.

Debt securities issued in IFRS is presented as other borrowed funds in Solvency II, causing a presentation difference of EUR 0,3 million.

Differences due to a different scope of consolidation amounted to EUR -4 million for the other borrowed funds as at 31 December 2017.

## **Deferred tax liabilities**

Reference is made to section D1 'Deferred tax assets'

## **Other liabilities**

In the IFRS balance sheet, other liabilities are reported at the notional amount. In the Solvency II balance sheet, other liabilities (with the exclusion of deferred taxes) are reported at market value.

Presentation differences include the different presentation of accrued interest. Solvency II requires accrued interest to be presented as part of the interest bearing liability ('dirty market value') and not separately as other liabilities as in the 2017 Consolidated annual accounts of NN Leven ('clean market value'). Presentation differences amounted to EUR -84 million as at 31 December 2017.

Differences due to a different scope of consolidation amounted to EUR -76 million as at 31 December 2017.

## **Contingent liabilities and provisions**

Part of the other liabilities are the contingent liabilities and provisions. In the IFRS balance sheet, provisions are recognised when:

- An entity has a present obligation (legal or constructive) as a result of a past event
- · It is probable that an outflow of resources embodying economic benefits will be required to settle the obligation
- A reliable estimate can be made of the amount of the obligation

In the IFRS balance sheet, provisions are recognised for the amount representing the best estimate of the expenditure required to settle the present obligation at the end of the reporting period. Contingent liabilities are not recognised in the IFRS balance sheet. These are disclosed, unless the possibility of an outflow of resources embodying economic benefits is remote.

In the Solvency II balance sheet, all material contingent liabilities are recognised as liabilities for the expected present value of future cash flows required to settle the contingent liability over the lifetime of that contingent liability, using the basic risk-free interest rate term structure.

Valuation differences between IFRS and Solvency II for contingent liabilities and provisions represent:

- A recognition difference: contingent liabilities are not recognised in the IFRS balance sheet, but are recognised in the Solvency II balance sheet if the exposure can be reliably estimated
- A measurement difference: provisions are measured in the IFRS balance sheet using the best estimate outcome (i.e. the full amount that may be incurred), while Solvency II requires a provision for the probability weighted outcome (i.e. the probability multiplied by the impact of the differences as at 31 December 2017)

For more details on other provisions and contingent liabilities, reference is made to Note 34 'Contingent liabilities and commitments' and Note 35 'Legal proceedings' in the 2017 Consolidated annual accounts of NN Leven.

#### Leasing

Information on operating lease arrangements are recognised in Note 24 'Other operating expenses' and Note 34 'Contingent liabilities and commitments' in the 2017 Consolidated annual accounts of NN Leven. There are no financial lease arrangements within NN Group.

#### **Expected profits in future premiums**

For existing business, expected profits included in future premiums are reflected in the technical provisions and therefore contribute to the Own Funds. For more information on the expected profits in future premiums, reference is made to QRT S.23.01.01 'Own funds' as included in the Appendix.

#### **Outflow of economic benefits**

For the expected timing of the outflows of economic benefits reference is made to Note 30 'Liabilities by maturity' in the 2017 Consolidated annual accounts of NN Leven. Uncertainties surrounding the amount or timing of the outflows of economic benefits is described in the Liquidity Risk paragraph in Note 41 'Risk management' in the 2017 Annual Report NN Leven. The uncertainties in amount or timing of other liability cash flows are low. Deviation risk was not taken into account in the valuation of the other liabilities.



## Changes during 2017

No significant changes were made to the recognition and valuation bases nor on estimations of the other liabilities during the reporting period.

## D.4 Alternative methods for valuation

## Alternative valuation methods used

Alternative valuation methods are used by NN Leven to determine the fair value of assets and liabilities if quoted market prices in active markets are unavailable. Reference is made to Note 26 'Fair value of financial assets and liabilities' and Note 27 'Fair value of non-financial assets' in the 2017 Consolidated annual accounts of NN Leven for more information on the valuation approaches used.

## D.5 Any other information

## **Active markets**

Information on the criteria used to assess whether markets are active is included in Note 1 'Accounting policies' in the 2017 Consolidated annual accounts of NN Leven . The valuation methods used if the markets are inactive are described in Note 26 'Fair value of financial assets and liabilities' in the 2017 Consolidated annual accounts of NN Leven .

## **Estimation uncertainties**

For the major sources of estimation uncertainty, reference is made to the Own funds at risk in Note 41 'Risk Management' in the 2017 Consolidated annual accounts of NN Leven.

Solven

Capital management

# **Capital management**

## **E. Capital Management**

## Introduction

This chapter of the SFCR contains information on the capital management of NN Leven, including the reconciliation of IFRS equity to Solvency II Own Funds, NN Leven's Minimum Capital Requirement ('MCR') and detailed information on NN Leven's Partial Internal Model.

## E.1 Own funds

Reference is made to Note 42 'Capital and liquidity management' in the 2017 Consolidated annual accounts of NN Leven for:

- The objectives, policies and processes employed by NN Leven for managing its own funds, including information on the time horizon used for business planning and on any material changes over the reporting period
- The structure, amount and quality of own funds, including the extent to which each material own fund item is available and subordinated, as well as its duration and any other features that are relevant for assessing its quality
- The amount of Eligible Own Funds to cover the SCR and MCR, classified by tiers

NN Leven did not have ancillary own funds during 2017 or as at 31 December 2017.

Solvency II Basic Own Funds represents the excess of assets over liabilities in the Solvency II balance sheet. It comprises the following items:

- Paid-in ordinary share capital and the related share premium account
- · Not distributed profits from previous years and the profit accrued during the reporting year
- The amount equal to the value of net deferred tax assets
- A reconciliation reserve reflecting the accumulated unrealized revaluations on balance sheet items that are not yet recycled through the Profit and Loss. These items include technical reserves for own account policies, bonds and loans, derivatives under hedge accounting programs and similar assets.

#### Impact of long term guarantees and transitional measures

The quantification of the impact of a change to zero of the VOLA on NN Leven's financial position, represented by an adjustment on the amount of technical provisions, the SCR, the basic own funds and the Eligible Own Funds is included in Section D.2 and QRT S.22.01.21 'Impact of long term guarantees and transitional measures' in the Appendix. No transitional measures are applicable for NN Leven.

#### Items deducted from own funds

Under Solvency II, Own funds are reduced by 'foreseeable dividends, distributions and charges'. This requirement is different from reporting under IFRS where dividends are deducted from equity (and a corresponding liability is recognised) when they are declared.

Recognition of 'foreseeable dividends and distributions' under Solvency II is relevant for NN Leven in two circumstances:

#### 1) Dividends

No foreseeable dividends are subtracted from the 31 December 2017 available equity.

#### 2) Coupons on subordinated liabilities

From the equity per 31 December 2017 an amount of EUR 32 million is subtracted as foreseeable dividend in relation to the subordinated liabilities.

#### **Additional ratios**

No additional ratios are disclosed in the Solvency and Financial Condition Report other than the ratios included in QRT S.23.01.01 'Own funds' as included in the Appendix; plus those that are included by reference into this report.

#### Analysis of significant changes in own funds

Reference is made to Note 42 'Capital and liquidity management' in the 2017 Consolidated annual accounts of NN Leven for an analysis of significant changes in own funds.

#### The principal loss-absorbency mechanism

During 2017, NN Leven had no principal loss-absorbency mechanism in place.

| Business and performance | System of governance | Risk profile |  | Capital<br>management |
|--------------------------|----------------------|--------------|--|-----------------------|
|--------------------------|----------------------|--------------|--|-----------------------|

#### **Reconciliation reserve**

The reconciliation reserve equals the total excess of assets over liabilities reduced by the following key elements:

- Paid-in ordinary share capital and related share premium account
- Paid-in preference shares and related share premium account
- The amount equal to the value of net deferred tax assets
- Foreseeable dividends and distributions

The reconciliation reserve is included in QRT S.23.01.01 'Own funds' in the Appendix to this report.

## **Reconciliation IFRS equity to Own Funds**

## Reconciliation IFRS equity to Solvency II Basic Own Funds

| In EUR thousand  | 2017        | 2016        |
|--|-------------|-------------|
| IFRS Shareholders' Equity  | 15,202,379  | 15,894,518  |
| Elimination of deferred acquisition costs and other intangible assets              | -243,812    | -252,559    |
| Valuation differences on assets  | 1,639,309   | 1,555,362   |
| Valuation differences on liabilities, including insurance and investment contracts | -12,253,705 | -13,490,334 |
| Deferred tax effects on valuation differences                                      | 2,703,203   | 3,030,386   |
| Excess assets/ liabilities   | 7,047,374   | 6,737,373   |
| Qualifying subordinated debt   | 1,136,880   | 1,154,807   |
| Foreseeable dividends and distributions  | -31,553     | -20,228     |
| Basic Own Funds  | 8,152,701   | 7,871,952   |

The differences between IFRS Shareholders' Equity in the 2017 Consolidated annual accounts of NN Leven and Solvency II Basic Own Funds of NN Leven as at 31 December 2017 are mainly caused by:

#### • Valuation differences:

- Deferred acquisition costs are not recognised for Solvency II purposes
- Intangible assets are not recognised or recognised at nil under Solvency II
- Different measurement of:
  - Loans and advances
  - Reinsurance contracts
  - Subordinated loans
  - Insurance and investment contract liabilities

- The other valuation differences mainly consist of the change in net Deferred Tax Assets or Deferred Tax Liabilities caused by using different valuations for some Solvency II balance sheet items whilst the tax base of these items remained the same.

- Other differences:
  - Foreseeable dividends and distributions are recognised for Solvency II purposes when determining the basic own funds

Reference is made to section D 'Valuation for Solvency Purposes' for more information on the valuation and consolidation differences between IFRS and Solvency II.

#### Intra-group transactions

There are two significant transactions with other companies within NN Group worth mentioning. All liabilities stemming from commercial contracts from the Czech branch are reinsured at NN Re. All derivative transactions, except interest rate swaps initiated after 21 May 2016, are traded with NN Inter finance.

## **Eligibility of Own Funds**

Reference is made to Note 42 'Capital and liquidity management' in the 2017 Consolidated annual accounts of NN Leven for the eligibility of Own Funds of NN Leven.

# Business and System of governance Risk profile Valuation for Solvency purposes management

## Capital management continued

# E.2 Solvency Capital Requirement and Minimum Capital Requirement

#### SCR

Reference is made to QRT S.25.02.21 in the Appendix and Note 41 'Risk management' of the 2017 Consolidated annual accounts of NN Leven for the amount of the SCR split by risk categories.

NN Leven determined the SCR including:

- Loss-absorbing capacity of technical provisions ('LAC TP'). LAC TP is the part of the technical provisions that can be used to absorb some of the SCR shock losses, as the expected future profit sharing to policyholders will be reduced if actual losses would arise. LAC TP is applicable to insurance policies with discretionary profit sharing
- Loss-absorbing capacity of deferred taxes ('LAC DT'). NN Leven's total loss in a 1-in-200 adverse event would be offset by tax recoveries and these are recognised to the extent to be expected to be recoverable. The determination of LACDT is significantly dependent on various assumptions, such as capitalisation assumptions, the assumed investment returns and the projection period.

Reference is made to QRT S.25.02.21 'Solvency Capital Requirement' in the Appendix.

## **Deferred tax under Solvency II**

The total deferred tax amount in Solvency II arises from:

- Taxable or deductible temporary differences because the carrying amount of assets or liabilities in the balance sheet differs from the tax base of those assets or liabilities. These differences multiplied by the tax rate are recognised as a net deferred tax liability or a net deferred tax asset in the balance sheet. Reference is made to section D.1 'Assets' for the deferred tax asset recognised in the Solvency II balance sheet.
- The LAC DT on the SCR.
- Unused tax losses that are available for carry forward for tax purposes.

Not all valuation differences between the tax basis and Solvency II and SCR shocks will lead to deferred tax as certain elements are exempt for tax. For example: valuation differences on certain equity securities and the equity shock in the SCR on these securities do not result in a deferred tax effect when equity returns are exempt from tax. Therefore, these are excluded from the valuation differences and SCR amounts in order to arrive at the deferred tax balances for Solvency II.

The total deferred tax amount for Solvency II is therefore built up in a number of steps:

- deferred tax assets on unused tax losses
- +/- deferred tax assets/liabilities from valuation differences between IFRS and tax basis (except for non-taxable items)
- = deferred tax asset/liability in the IFRS balance sheet (deferred tax for IFRS)
- +/- deferred tax assets/liabilities from valuation differences between Solvency II and IFRS (except for non-taxable items)
- = deferred tax asset/liability in the Solvency II balance sheet (deferred tax for Own Funds)
- + deferred tax on SCR (LAC DT on the SCR) (except for non-taxable items)
- = total deferred tax amount for Solvency II

The 'total deferred tax amount for Solvency II' represents the deferred tax position that would be reflected in a Solvency II balance sheet that is fully shocked in line with the SCR shock. Any net deferred tax asset/benefit - whether for IFRS, Own Funds or SCR - must be tested for recoverability. The general guidance on assessing recoverability is summarised as follows:

Tax assets can only be recognised when it is concluded that their recoverability is probable. This applies to both deferred tax assets from timing differences, deferred tax assets from unused tax losses carried forward and the LAC DT on the SCR.

| Business and performance | System of governance | Risk profile | Valuation for<br>Solvency<br>purposes | Capital<br>managemen |
|--------------------------|----------------------|--------------|---------------------------------------|----------------------|
|--------------------------|----------------------|--------------|---------------------------------------|----------------------|

Deferred tax assets are recoverable when:

- There are sufficient deferred tax liabilities relating to the same taxation authority and the same taxable entity. These deferred tax liabilities must be expected to reverse either in the same period as the tax asset or in periods into which a tax loss can be carried back or forward
- It is probable that the entity will have sufficient taxable profit relating to the same taxation authority and the same taxable entity in the same period as the reversal of the deductible temporary difference (or in the periods into which a tax loss arising from the deferred tax asset can be carried back or forward)
- Tax planning opportunities are available

Deferred taxes in the IFRS and Solvency II balance sheet are nominal, undiscounted, amounts. Therefore, recoverability testing also only considers nominal, undiscounted, amounts.

Specific guidance applies under Solvency II in respect of item b. 'Sufficient taxable profit' as, different from IFRS, this refers to Solvency II based profits (before and after a shock event) and not to regular (IFRS-based) profits.

In order to assess the recoverability of deferred tax, the total deferred tax amount for Solvency II (i.e. deferred tax in the Solvency II balance sheet plus the LAC DT on the SCR) must be equal to or lower than the total recoverable deferred tax amount in a Solvency II environment.

The recoverable amount must be assessed at the legal entity level and may not - except for the Solvency II balance sheet deferred tax asset only - include amounts from other entities in the Group, independent of existing fiscal unities or tax groups. While from a legal, tax and economic perspective the recoverability would benefit from the existence of a fiscal unity, and therefore the benefit from a fiscal unity is 'real', the Q&A as published by DNB prohibits reflecting the benefit of a fiscal unity in supporting the LAC DT on the SCR. The fiscal unity may be reflected in supporting the deferred tax asset in the Solvency II balance sheet.

As the total deferred tax amount for Solvency II (i.e. the deferred tax asset that exists in a fully shocked SCR balance sheet) is the highest amount, it acts as starting point for the recoverability test. This total amount reflects the differences between the tax values and the Solvency II values for all assets and liabilities and the tax benefit on the SCR. Only if the total deferred tax is non-recoverable, the recoverability of the deferred tax in Own Funds becomes separately relevant.

Due to the strong balance sheet of NN Leven, it is reasonable to assume that NN Leven can continue as a going concern after the shock, without a need to generate external additional capital and without a need to de-risk. The tax recoverability test of NN Leven is performed on this basis.

The total recoverable deferred tax amount in a Solvency II environment may come from various sources and includes both recoverability from items that never impact taxable profits and reverse over time as well as sources of profits and losses that would emerge in a Solvency II environment or a Solvency II environment after a SCR-type shock would have occurred. The recoverability is therefore based on an estimation of the total taxable results (including both income and expenses) that is expected to arise in a Solvency II environment after the shock. The sources of recoverability include all components of the estimated future taxable results, irrespective whether these are income ('profit') or expense ('loss').

The following items may be included in determining the total recoverable deferred tax amount:

- The amount of the risk margin in the technical provision
- Return on capital after the shock
- Reversal of the net effects of the credit-spread shock
- · Investment spread in excess of interest accretion on technical provisions
- Funding costs over their (expected average) remaining duration. Profits from estimated new business
- Net fee income
- Carry-back

NN Leven has sufficient recoverable amounts to support the total deferred tax position recognised.

The net deferred tax asset is classified as Tier 3 capital. Tier 3 capital cannot exceed 15% of the SCR. Further information on Tiering is included in Note 42 'Capital and liquidity management' in the 2017 Consolidated annual accounts of NN Leven.

| Business and performance | System of governance | Risk profile | Valuation for<br>Solvency<br>purposes | Capital<br>managemen |
|--------------------------|----------------------|--------------|---------------------------------------|----------------------|
|--------------------------|----------------------|--------------|---------------------------------------|----------------------|

## **Minumum Capital Requirement**

| In EUR thousand  | 2017      | 2016      |
|--|-----------|-----------|
| Eligible Own Funds to cover Minimum Capital Requirements | 6,783,157 | 6,732,587 |
| of which Tier 1 unrestricted                             | 6,002,028 | 5,924,223 |
| of which Tier 1 restricted                               | 462,564   | 468,974   |
| of which Tier 2  | 318,565   | 339,390   |
| Minimum Capital Requirements                             | 1,592,825 | 1,696,950 |

For the MCR (and its inputs) as calculated in accordance with the formulas in the Solvency II regulations, reference is made to QRT S.28.01.01 as included in the Appendix.

## E.3 Use of the duration-based equity risk sub-module in the calculation of the Solvency Capital Requirement

NN Leven does not use the duration-based equity risk sub module.

## E.4 Differences between the Standard Formula and any Internal Model used

## Internal Model vs Standard Formula

NN Leven applies a Partial Internal Model as it better reflects the risk profile and contains additional benefits for risk management purposes. In particular:

- An Internal Model approach better reflects the specific assets and therefore the market risk in the portfolio of NN Leven e.g. property risk, sovereign and other credit spread risks. In addition, the approach to the most significant non-market risks within NN Leven such as longevity (trend uncertainty) and expense risk (closed block treatment) is better tailored to the specific portfolio characteristics and statutory reserves set up according to local company law
- In the case of Disability/Morbidity Risks, the product features and experience in the Dutch market are different from those in the wider European market, e.g. greater emphasis is placed on claimants returning to work in the Netherlands
- The Standard Formula diversification assumptions do not recognise all the diversification of risks that exists in the NN Leven portfolios
- The Internal Model accounts for the volatility adjuster in the liability discount rate by means of a dynamic volatility adjustment. Reference is made to section D.2 (in paragraph 'Matching and volatility adjustment, transitional measures and transitional risk-free interest rate term structure' on pages 20-21) for further information on NN Leven's 'Dynamic VOLA'

There are no differences between the Internal Models used at NN Leven and the Internal Model used to calculate the Group SCR.

| Business and performance | System of governance | Risk profile | Valuation for<br>Solvency<br>purposes | Capital<br>management |
|--------------------------|----------------------|--------------|---------------------------------------|-----------------------|
|--------------------------|----------------------|--------------|---------------------------------------|-----------------------|

## Risks covered by the Internal Model which are not -or differently- covered in the Standard Formula

Risk arises from the possibility that actual experience will negatively deviate from expectations, which results in economic losses for NN Leven. In this respect, NN Leven identified the following risk factors, and developed probability distributions for these various risk factors, as part of its Internal Model, which leads to the Basic Solvency Capital requirement ('BSCR'):



1 This scheme reflects the NN Group Internal Model, some risks are not applicable for NN Leven

| performance governance Risk profile purposes man |  | Business and performance | System of governance | Risk profile | Valuation for<br>Solvency<br>purposes | Capit<br>manc |
|--|--|--------------------------|----------------------|--------------|---------------------------------------|---------------|
|--|--|--------------------------|----------------------|--------------|---------------------------------------|---------------|

In addition to the risks covered in the Standard Formula, the Internal Model includes the following risks (in addition to the differences mentioned in the beginning of section E4):

- Inflation risk is defined as the risk associated with adverse changes in both realised and future expected inflation rates
- Equity implied volatility refers to the possibility of adverse changes in Solvency II own funds due to adverse changes in the level of equity implied volatilities
- Interest rate implied volatility refers to the possibility of adverse changes in Solvency II own funds due to adverse changes in the level of interest rate implied volatilities
- Foreign Exchange implied volatility refers to the possibility of adverse changes in Solvency II own funds due to adverse changes in the level of FX implied volatilities
- Basis risk is the risk that occurs if the underlying asset or liability behaves differently than the underlying hedge instrument
- · Continuation risk refers to political, country or legal risk

The most important differences between the Internal Model and the Standard Formula in covered risk factors are:

- Interest Rate Risk:
  - The Internal Model incorporates several shocks, including non-parallel ones, to the curve instead of only two parallel shocks used in the Standard Formula
  - When interest rates are at low levels, the Internal Model uses absolute shocks, while the Standard Formula uses relative shocks
  - The Internal Model allows for negative interest rates, whereas the Standard Formula does not
  - In the Internal Model, first, the shock is applied to the interest rates and then the resulting rates are extrapolated to the Ultimate Forward rate. In the Standard Model the interest rates are first extrapolated to the Ultimate Forward rate and afterwards the shock is applied
  - In the Internal Model NN Leven convergence to the UFR after shock and thereby follow the dynamics of the balance sheet, whereas in the Standard Formula there is no convergence to the UFR after shock
- Equity Risk:
  - Level of shocks differs mainly because it is calibrated to the equity portfolio of NN Leven
- Credit Spread Risk:
  - Shocks in the Internal Model apply to all fixed income assets, whereas the Standard Formula does not apply shocks to the bonds issued by countries which are EU members
  - In the Internal Model mortgages and loans are treated under Credit Spread Risk, whereas in the Standard Formula these are shocked as part of Counterparty Default Risk
- Real Estate Risk:
  - Shock applied in the Standard Formula is calibrated to historical prices observed in the UK property market, while the shock in the Internal Model is calibrated to actual exposures of NN Leven
- Counterparty Default Risk:
- Counterparty Default Risk module in the Standard Formula includes shocks applied to mortgage exposure, which are included under the Credit Spread module in the Internal Model
- Life Risk:
  - Under the Internal Model, longevity risk (trend uncertainty) is better tailored to the specific portfolio characteristics, whereas under the Standard Formula the longevity risk is estimated by permanently decreasing all mortality rates by the same fixed percentage.

Capital requirements for operational risk are calculated in NN Leven based on the Standard Formula, and added to the combined BSCR. Next, loss absorption effects from technical provisions and taxes are included.

| Business and performance | System of governance | Risk profile |  | Capital<br>managem |
|--------------------------|----------------------|--------------|--|--------------------|
|--------------------------|----------------------|--------------|--|--------------------|

The table below shows the results for the steps described above.

## **Solvency Capital Requirement**

| In EUR thousand                                 | 2017       | 2016       |
|---|------------|------------|
| Market Risk                                     | 2,718,024  | 2,993,637  |
| Non-market risk                                 | 3,097,455  | 3,244,081  |
| Diversification                                 | -1,453,698 | -1,616,382 |
| Partial Internal Model BSCR                     | 4,361,781  | 4,621,336  |
| Operational Risk                                | 325,154    | 328,601    |
| Capital add-on                                  | -6,600     | -          |
| Loss-Absorbing Capacity of Technical Provisions | -91,516    | -50,219    |
| Loss-Absorbing Capacity of Deferred Taxes       | -1,049,207 | -1,128,718 |
| Total SCR                                       | 3,539,612  | 3,771,000  |

Further reference is made to the QRT 25.02.21 in the Appendix.

## The nature and appropriateness of the data used in the Internal Model

Market data is collected from pre-defined external data sources. The market data methodologies are based on the following key principles:

- All relevant market data must be used when it is available and is of sufficient quality, i.e. data derived from deep, liquid and transparent ('DLT') markets; for most of the market risk models NN Leven uses standard well established market data sources
- The market data used should be of sufficient quality; e.g. for most of the market risk models standard well established market data sources are used. The data is analysed for correctness as part of the calibration process;
- · From the last observable liquid market data point, extrapolation methods must be used to complete the data set
- Extrapolated market data should:
- Be free of arbitrage
- Be based on sound theoretical assumptions and/or expert judgment
- Follow a smooth path from the entry point to the unconditional long-term level
- Estimates of ultimate long-term rates or levels should be stable over time, and only change because of changes in long-term expectations

#### The uses of the Internal Model

The Internal Model allows NN Leven to treat different risk management activities in a consistent way:

- The model provides a framework which is consistent across risk types, businesses and the key uses such as market valuation, capitalisation, product pricing, investments, monitoring of risk appetite and risk mitigation/transfer
- The model facilitates adequate risk management at all levels of the organisation and provides a framework to measure, monitor and manage risks versus NN Leven's risk appetite
- The model allows NN Leven to manage risk in many different ways, e.g.:
  - Manage individual risk types at a much more granular approach, i.e. a stochastic (loss distribution) approach
  - Manage volatility in a stochastic rather than deterministic approach
  - Supports valuation, scenario- and stress analysis by running scenarios in a simple way using replicating portfolios
- The model allows NN Leven to proactively define its risk measurement and management approach rather than awaiting (generic) industry changes to the Standard Formula

The Internal Model is used for different purposes. It is used to measure and manage the risks at all levels within the company, thus covering the entire loss distribution. This information is not only used to determine the SCR to cover tail risks. It is also used for, amongst others, wider risk management, capital management and business decisions such as product pricing and asset allocation. The following diagram provides an overview of the key uses of the Internal Model.

|  |  | Business and performance | System of<br>governance | Risk profile | Valuation for<br>Solvency<br>purposes | Capital<br>management |
|--|--|--------------------------|-------------------------|--------------|---------------------------------------|-----------------------|
|--|--|--------------------------|-------------------------|--------------|---------------------------------------|-----------------------|



# The methods used in the Internal Model for the calculation of the probability distribution forecast and the Solvency Capital Requirement

For the market risk models the Normal Inverse Gaussian ('NIG') distribution is mostly used. The class of the NIG distributions is a flexible set of distributions that includes fat-tailed and skewed distributions. For some market risk models e.g. for the real estate risk model where fewer data points are available, the Normal or t-distribution are used.

Where there is lack of annual data, higher frequency data is used for the calibration of the distribution parameters. The distribution is then annualised for the calculation of the SCR.

To assess the quality of the calibration, the goodness-of-fit tests and back testing are applied.

# E.5 Non-compliance with the Minimum Capital Requirement and non-compliance with the Solvency Capital Requirement

NN Leven complied with the MCR and the SCR during the reporting period.

## E.6 Any other information

Reference is made to Note 42 'Capital and liquidity management' in the 2017 Consolidated annual accounts of NN Leven for any other material information regarding the capital management of NN Leven and financial leverage of NN Leven.

#### **Subsequent events**

Reference is made to Note 40 'Other events' in the 2017 Consolidated annual accounts of NN Leven for the nature and the effect of material events arising after the balance sheet date which are not reflected in the balance sheet, if any.

# Appendix 1

## Appendix 1: Quantitative Reporting Templates that form part of the Solvency and Financial Condition Report

This appendix includes certain Quantitative Reporting Templates ('QRTs') of NN Group, required to be reported to DNB and to be publicly disclosed :

| Reference number | Tit   | le Description  |
|------------------|---|---|
|                  |   | Balance sheet information using Solvency II valuation     |
| S.02.01.02       | Balance sheet                                     | methodology   |
|                  |   | Information on premiums, claims and expenses using        |
|                  |   | the valuation and recognition principles used in NN       |
| S.05.01.02       | Premiums, claims and expenses by line of business | Leven's Consolidated Annual Report                        |
|                  |   | Information on premiums, claims and expenses by           |
|                  |   | country using the valuation and recognition principles    |
| S.05.02.01       | Premiums, claims and expenses by country          | used NN Leven's Consolidated Annual Report                |
|                  |   | Information on life and health similar to life provisions |
| S.12.01.02       | Life and health similar to life provisions        | split by line of business                                 |
|                  | Impact of long term guarantees and transitional   | Information on the impact of the long term guarantee      |
| S.22.01.21       | measures  | and transitional measures                                 |
| S.23.01.01       | Own funds   | Information on own funds, including basic own funds       |
|                  |   | Information on the Solvency Capital Requirement           |
|                  |   | calculated using the Standard formula and a partial       |
| S.25.02.21       | Solvency Capital Requirement                      | Internal model  |
| S.28.01.01       | Minimum Capital Requirement                       | Information on the Minimum Capital Requirement            |

All amounts in this appendix are recorded in EUR 1,000.

## S.02.01.02 Balance sheet

|  |       | Solvency II<br>value |
|--|-------|----------------------|
|  | -     | C0010                |
| Assets   |       |                      |
| Goodwill   | R0010 |                      |
| Deferred acquisition costs   | R0020 |                      |
| Intangible assets  | R0030 | 0                    |
| Deferred tax assets  | R0040 | 1,013,793            |
| Pension benefit surplus  | R0050 |                      |
| Property, plant & equipement held for own use  | R0060 | 19                   |
| Investments (other than assets held for index-linked and unit-linked contracts)        | R0070 | 59,095,334           |
| Property (other than for own use)  | R0080 | 760                  |
| Holdings in related undertakings, including participations                             | R0090 | 5,844,708            |
| Equities   | R0100 | 2,659,060            |
| Equities - listed  | R0110 | 2,459,570            |
| Equities - unlisted  | R0120 | 199,489              |
| Bonds  | R0130 | 45,835,827           |
| Government Bonds   | R0140 | 34,084,692           |
| Corporate Bonds  | R0150 | 9,603,619            |
| Structured notes   | R0160 | 526,886              |
| Collateralised securities  | R0170 | 1.620.629            |
| Collective Investments Undertakings  | R0180 | 1,784,561            |
| Derivatives  | R0190 | 2.696.855            |
| Deposits other than cash equivalents   | R0200 | 273.563              |
| Other investments  | R0210 | 0                    |
| Assets held for index-linked and unit-linked contracts                                 | R0220 | 12.872.734           |
| Loans and mortgages  | R0230 | 19.642.412           |
| Loans on policies  | R0240 | 14.473               |
| Loans and mortgages to individuals   | R0250 | 14,242,302           |
| Other loans and mortgages  | R0260 | 5,385,637            |
| Reinsurance recoverables from:   | R0270 | 1.136.331            |
| Non-life and health similar to non-life  | R0280 | ,,                   |
| Non-life excluding health  | R0290 |                      |
| Health similar to non-life   | R0300 |                      |
| Life and health similar to life, excluding health and index-linked and unit-linked     | R0310 | 560.547              |
| Health similar to life   | R0320 | 9,401                |
| Life excluding health and index-linked and unit-linked                                 | R0330 | 551,147              |
| Life index-linked and unit-linked  | R0340 | 575,783              |
| Deposits to cedants  | R0350 | 152                  |
| Insurance and intermediaries receivables   | R0360 | 308,557              |
| Reinsurgnce receivables  | R0370 | 3.000                |
| Receivables (trade, not insurance)   | R0380 | 1,107,930            |
| Own shares (held directly)   | R0390 | 1,107,000            |
| Amounts due in respect of own fund items or initial fund called up but not yet paid in | R0400 |                      |
| Cash and cash equivalents  | R0400 | 36,215               |
| Any other assets, not elsewhere shown  | R0420 | 1.327                |
| Total assets   | R0500 | 95.217.805           |

|   |       | Solvency II<br>value |
|---|-------|----------------------|
|   |       | C0010                |
| Liabilities   |       |                      |
| Technical provisions – non-life   | R0510 |                      |
| Technical provisions – non-life (excluding health)                              | R0520 |                      |
| Technical provisions calculated as a whole                                      | R0530 |                      |
| Best Estimate   | R0540 |                      |
| Risk margin   | R0550 |                      |
| Technical provisions - health (similar to non-life)                             | R0560 |                      |
| Technical provisions calculated as a whole                                      | R0570 |                      |
| Best Estimate   | R0580 |                      |
| Risk margin   | R0590 |                      |
| Technical provisions - life (excluding index-linked and unit-linked)            | R0600 | 69,154,273           |
| Technical provisions - health (similar to life)                                 | R0610 | 9,403                |
| Technical provisions calculated as a whole                                      | R0620 |                      |
| Best Estimate   | R0630 | 9,213                |
| Risk margin   | R0640 | 190                  |
| Technical provisions – life (excluding health and index-linked and unit-linked) | R0650 | 69,144,870           |
| Technical provisions calculated as a whole                                      | R0660 |                      |
| Best Estimate   | R0670 | 66,044,836           |
| Risk margin   | R0680 | 3,100,034            |
| Technical provisions – index-linked and unit-linked                             | R0690 | 14,370,576           |
| Technical provisions calculated as a whole                                      | R0700 |                      |
| Best Estimate   | R0710 | 13,936,975           |
| Risk margin   | R0720 | 433,601              |
| Other technical provisions  | R0730 |                      |
| Contingent liabilities  | R0740 |                      |
| Provisions other than technical provisions                                      | R0750 | 20,503               |
| Pension benefit obligations   | R0760 |                      |
| Deposits from reinsurers  | R0770 | 1,072,741            |
| Deferred tax liabilities  | R0780 | 0                    |
| Derivatives   | R0790 | 1,213,439            |
| Debts owed to credit institutions   | R0800 | 206,460              |
| Financial liabilities other than debts owed to credit institutions              | R0810 |                      |
| Insurance & intermediaries payables   | R0820 | 821,534              |
| Reinsurance payables  | R0830 | 4,680                |
| Payables (trade, not insurance)   | R0840 | 25,420               |
| Subordinated liabilities  | R0850 | 1,136,880            |
| Subordinated liabilities not in Basic Own Funds                                 | R0860 |                      |
| Subordinated liabilities in Basic Own Funds                                     | R0870 | 1,136,880            |
| Any other liabilities, not elsewhere shown                                      | R0880 | 143,925              |
| Total liabilities   | R0900 | 88,170,430           |
| Excess of assets over liabilities   | R1000 | 7,047,374            |

## S.05.01.02 Premiums, claims and expenses by line of business

|                                       |       |           | Line of Busir  | Total           |            |           |
|---------------------------------------|-------|-----------|----------------|-----------------|------------|-----------|
|                                       | —     |           | Insurance with | Index-linked    |            |           |
|                                       |       | Health    | profit         | and unit-linked | Other life |           |
|                                       |       | insurance | participation  | insurance       | insurance  |           |
|                                       |       | C0210     | C0220          | C0230           | C0240      | C0300     |
| Premiums written                      |       |           |                |                 |            |           |
| Gross                                 | R1410 | 32,709    | 473,764        | 638,247         | 1,144,329  | 2,289,048 |
| Reinsurers' share                     | R1420 | 32,709    | 44,422         | 71,772          | 12,543     | 161,446   |
| Net                                   | R1500 | -0        | 429,341        | 566,475         | 1,131,786  | 2,127,602 |
| Premiums earned                       |       |           |                |                 |            |           |
| Gross                                 | R1510 | 32,934    | 475,154        | 638,247         | 1,144,347  | 2,290,682 |
| Reinsurers' share                     | R1520 | 32,934    | 45,813         | 71,772          | 12,561     | 163,080   |
| Net                                   | R1600 | -0        | 429,341        | 566,475         | 1,131,786  | 2,127,602 |
| Claims incurred                       |       |           |                |                 |            |           |
| Gross                                 | R1610 | -10,617   | 1,220,166      | 852,036         | 2,486,819  | 4,548,405 |
| Reinsurers' share                     | R1620 | -10,617   | 70,687         | 76,023          | 4,539      | 140,632   |
| Net                                   | R1700 | -0        | 1,149,480      | 776,013         | 2,482,280  | 4,407,773 |
| Changes in other technical provisions |       |           |                |                 |            |           |
| Gross                                 | R1710 | -18,431   | 362,524        | -36,149         | 610,029    | 917,974   |
| Reinsurers' share                     | R1720 | -18,431   | 18,471         | -2,033          | -662       | -2,654    |
| Net                                   | R1800 |           | 344,053        | -34,116         | 610,691    | 920,628   |
| Expenses incurred                     | R1900 | 9,889     | 111,481        | 126,261         | 286,499    | 534,131   |
| Other expenses                        | R2500 |           |                |                 |            |           |
| Total expenses                        | R2600 |           |                |                 |            | 534,131   |

## S.05.02.01 Premiums, claims and expenses by country

|                                       |       | Home Country | Total Top 5 and<br>home country |           |
|---------------------------------------|-------|--------------|---------------------------------|-----------|
|                                       |       | C0150        | C0160                           | C0210     |
|                                       | R1400 |              | CZ                              |           |
|                                       |       | C0220        | C0230                           | C0280     |
| Premiums written                      |       |              |                                 |           |
| Gross                                 | R1410 | 2,135,824    | 153,224                         | 2,289,048 |
| Reinsurers' share                     | R1420 | 160,981      | 466                             | 161,446   |
| Net                                   | R1500 | 1,974,844    | 152,758                         | 2,127,602 |
| Premiums earned                       |       |              |                                 |           |
| Gross                                 | R1510 | 2,135,824    | 154,858                         | 2,290,682 |
| Reinsurers' share                     | R1520 | 162,615      | 466                             | 163,080   |
| Net                                   | R1600 | 1,973,210    | 154,392                         | 2,127,602 |
| Claims incurred                       |       |              |                                 |           |
| Gross                                 | R1610 | 4,415,621    | 132,785                         | 4,548,405 |
| Reinsurers' share                     | R1620 | 140,563      | 70                              | 140,632   |
| Net                                   | R1700 | 4,275,058    | 132,715                         | 4,407,773 |
| Changes in other technical provisions |       |              |                                 |           |
| Gross                                 | R1710 | 920,628      | -2,654                          | 917,974   |
| Reinsurers' share                     | R1720 | -2,654       |                                 | -2,654    |
| Net                                   | R1800 | 923,282      | -2,654                          | 920,628   |
| Expenses incurred                     | R1900 | 498,774      | 35,356                          | 534,131   |
| Other expenses                        | R2500 |              |                                 |           |
| Total expenses                        | R2600 |              |                                 | 534,131   |

## S.12.01.02 Life and Health SLT Technical Provisions

|                                      |       |   | Index-li   | nked and u  | nit-linked<br>insurance                   |            | Other life                                    | insurance      |   |       | insurance<br>business) |  |
|--------------------------------------|-------|---|------------|---|---|------------|---|----------------|---|-------|------------------------|--|
|                                      |       | Insuranc<br>e with<br>profit<br>participat<br>ion |            | Contract<br>s without<br>options<br>and<br>guarante<br>es | s with<br>options<br>or<br>guarante<br>es |            | s without<br>options<br>and<br>guarante<br>es | guarante<br>es | Total<br>(Life<br>other<br>than<br>health<br>insuranc<br>e, incl.<br>Unit-<br>Linked) |       | and<br>guarante<br>es  | Total<br>(Health<br>similar to<br>life<br>insuranc<br>e) |
|                                      |       | C0020   | C0030      | C0040   | C0050                                     | C0060      | C0070   | C0080          | C0150   | C0160 | C0170                  | C0210  |
| Technical provisions calculated as a |       |   |            |   |   |            |   |                |   |       |                        |  |
| whole                                | R0010 |   |            |   |   |            |   |                |   |       |                        |  |
| Total Recoverables from              |       |   |            |   |   |            |   |                |   |       |                        |  |
| reinsurance/SPV and Finite Re after  |       |   |            |   |   |            |   |                |   |       |                        |  |
| the adjustment for expected losses   |       |   |            |   |   |            |   |                |   |       |                        |  |
| due to counterparty default          |       |   |            |   |   |            |   |                |   |       |                        |  |
| associated to TP as a whole          | R0020 |   |            |   |   |            |   |                |   |       |                        |  |
| Technical provisions calculated as a |       |   |            |   |   |            |   |                |   |       |                        |  |
| sum of BE and RM                     |       |   |            |   |   |            |   |                |   |       |                        |  |
| Best Estimate                        |       |   |            |   |   |            |   |                |   |       |                        |  |
| Gross Best Estimate                  | R0030 | 14,694,739  |            | 8,663,849   | 5,273,126                                 |            | 32,048,968                                    | 19,301,129     | 79,981,811  |       | 9,213                  | 9,213  |
| Total Recoverables from              |       |   |            |   |   |            |   |                |   |       |                        |  |
| reinsurance/SPV and Finite Re after  |       |   |            |   |   |            |   |                |   |       |                        |  |
| the adjustment for expected losses   |       |   |            |   |   |            |   |                |   |       |                        |  |
| due to counterparty default          | R0080 | 547,993   |            | 505,679   | 70,104                                    |            | -6,680  | 9,834          | 1,126,930   |       | 9,401                  | 9,401  |
| Best estimate minus recoverables     |       |   |            |   |   |            |   |                |   |       |                        |  |
| from reinsurance/SPV and Finite Re   |       |   |            |   |   |            |   |                |   |       |                        |  |
| - total                              | R0090 | 14,146,746  |            | 8,158,170   | 5,203,021                                 |            | 32,055,648                                    | 19,291,296     | 78,854,881  |       | -187                   | -187   |
| Risk Margin                          | R0100 | 284,624   | 433,601    |   |   | 2,815,409  |   |                | 3,533,635   | 190   |                        | 190  |
| Amount of the transitional on        |       |   |            |   |   |            |   |                |   |       |                        |  |
| Technical Provisions                 |       |   |            |   |   |            |   |                |   |       |                        |  |
| Technical Provisions calculated as a |       |   |            |   |   |            |   |                |   |       |                        |  |
| whole                                | R0110 |   |            |   |   |            |   |                |   |       |                        |  |
| Best estimate                        | R0120 |   |            |   |   |            |   |                |   |       |                        |  |
| Risk margin                          | R0130 |   |            |   |   |            |   |                |   |       |                        |  |
| Technical provisions - total         | R0200 | 14.070.000  | 14,370,576 |   |   | 54,165,507 |   |                | 83,515,446  | 9,403 |                        | 9,403  |

## S.22.01.21 Impact of long term guarantees and transitional measures

|                                      | Amount with<br>LTG measures<br>and | Impact of<br>transitional on<br>technical |               | Impact of<br>volatility<br>adjustment set | Impact of<br>matching<br>adjustment set |
|--------------------------------------|------------------------------------|---|---------------|---|---|
|                                      | transitionals                      | provisions                                | interest rate | to zero 1)                                | to zero                                 |
|                                      | C0010                              | C0030                                     | C0050         | C0070                                     | C0090                                   |
| Technical provisions R0010           | 83,524,849                         |   |               | 356,570                                   |   |
| Basic own funds R0020                | 8,152,701                          |   |               | -267,507                                  |   |
| Eligible own funds to meet SCR R0050 | 7,669,849                          |   |               | 215,345                                   |   |
| SCR R0090                            | 3,539,612                          |   |               | 4,177,547                                 |   |
| Eligible own funds to meet MCR R0100 | 6,783,157                          |   |               | -323,208                                  |   |
| Minimum Capital Requirement R0110    | 1,592,825                          |   |               | 166,813                                   |   |

1 This reflects the impact to set the volatility adjustment to zero; it does not reflect second order impacts, such as changes to LAC DT (which is kept constant).

Reference is made to page 20 to 21 in Section D.2. (paragraph 'Matching and volatility adjustment, transitional measures and transitional risk free interest rate term structure') for more information on the impact of long term guarantees and transitional measures.

## S.23.01.01 Own funds

|   | _              | Total     | Tier 1 -<br>unrestricted | Tier 1 -<br>restricted | Tier 2  | Tier 3    |
|---|----------------|-----------|--------------------------|------------------------|---------|-----------|
|   |                | C0010     | C0020                    | C0030                  | C0040   | C0050     |
| Basic own funds before deduction for participations in other  |                |           |                          |                        |         |           |
| financial sector as foreseen in article 68 of Delegated       |                |           |                          |                        |         |           |
| Regulation 2015/35  | D0010          | 22,000    | 22,000                   |                        |         |           |
| Ordinary share capital (gross of own shares)                  | R0010<br>R0030 | 22,689    | 22,689                   |                        |         |           |
| Share premium account related to ordinary share capital       | R0030          | 3,228,029 | 3,228,029                |                        |         |           |
| linitial funds, members' contributions or the equivalent      |                |           |                          |                        |         |           |
| basic own - fund item for mutual and mutual-type              | D0040          |           |                          |                        |         |           |
| undertakings  | R0040          |           |                          |                        |         |           |
| Subordinated mutual member accounts                           | R0050          |           |                          |                        |         |           |
| Surplus funds   | R0070          |           |                          |                        |         |           |
| Preference shares   | R0090          |           |                          |                        |         |           |
| Share premium account related to preference shares            | R0110          | 0751000   | 0751000                  |                        |         |           |
| Reconciliation reserve  | R0130          | 2,751,309 | 2,751,309                |                        |         |           |
| Subordinated liabilities                                      | R0140          | 1,136,880 |                          | 462,564                | 674,315 |           |
| An amount equal to the value of net deferred tax assets       | R0160          | 1,013,793 |                          |                        |         | 1,013,793 |
| Other own fund items approved by the supervisory              |                |           |                          |                        |         |           |
| authority as basic own funds not specified above              | R0180          |           |                          |                        |         |           |
| Own funds from the financial statements that should not be    |                |           |                          |                        |         |           |
| represented by the reconciliation reserve and do not meet the |                |           |                          |                        |         |           |
| criteria to be classified as Solvency II own funds            |                |           |                          |                        |         |           |
| Own funds from the financial statements that should not       |                |           |                          |                        |         |           |
| be represented by the reconciliation reserve and do not       |                |           |                          |                        |         |           |
| meet the criteria to be classified as Solvency II own funds   | R0220          |           |                          |                        |         |           |
| Deductions  |                |           |                          |                        |         |           |
| Deductions for participations in financial and credit         |                |           |                          |                        |         |           |
| institutions  | R0230          |           |                          |                        |         |           |
| Total basic own funds after deductions                        | R0290          | 8,152,701 | 6,002,028                | 462,564                | 674,315 | 1,013,793 |
| Ancillary own funds   |                |           |                          |                        |         |           |
| Unpaid and uncalled ordinary share capital callable on demand | R0300          |           |                          |                        |         |           |
| Unpaid and uncalled initial funds, members' contributions     |                |           |                          |                        |         |           |
| or the equivalent basic own fund item for mutual and          |                |           |                          |                        |         |           |
| mutual - type undertakings, callable on demand                | R0310          |           |                          |                        |         |           |
| Unpaid and uncalled preference shares callable on             |                |           |                          |                        |         |           |
| demand  | R0320          |           |                          |                        |         |           |
| A legally binding commitment to subscribe and pay for         |                |           |                          |                        |         |           |
| subordinated liabilities on demand                            | R0330          |           |                          |                        |         |           |
| Letters of credit and guarantees under Article 96(2) of the   |                |           |                          |                        |         |           |
| Directive 2009/138/EC   | R0340          |           |                          |                        |         |           |
| Letters of credit and guarantees other than under Article     | 110010         |           |                          |                        |         |           |
| 96(2) of the Directive 2009/138/EC                            | R0350          |           |                          |                        |         |           |
| Supplementary members calls under first subparagraph of       | 110550         |           |                          |                        |         |           |
| Article 96(3) of the Directive 2009/138/EC                    | R0360          |           |                          |                        |         |           |
| Supplementary members calls - other than under first          | 1.0500         |           |                          |                        |         |           |
| subparagraph of Article 96(3) of the Directive                |                |           |                          |                        |         |           |
| 2009/138/EC   | R0370          |           |                          |                        |         |           |
| Other ancillary own funds                                     | R0390          |           |                          |                        |         |           |
| Total ancillary own funds                                     | R0400          |           |                          |                        |         |           |
| Available and eligible own funds                              | 110400         |           |                          |                        |         |           |
| Total available own funds to meet the SCR                     | R0500          | 8,152,701 | 6,002,028                | 462,564                | 674,315 | 1,013,793 |
| Total available own funds to meet the MCR                     | R0500<br>R0510 | 7,138,907 | 6,002,028                | 462,564                | 674,315 | 1,013,793 |
|   |                |           |                          |                        |         | E20.042   |
| Total eligible own funds to meet the SCR                      | R0540          | 7,669,849 | 6,002,028                | 462,564                | 674,315 | 530,942   |
| Total eligible own funds to meet the MCR                      | R0550          | 6,783,157 | 6,002,028                | 462,564                | 318,565 |           |
| SCR   | R0580          | 3,539,612 |                          |                        |         |           |
| MCR   | R0600          | 1,592,825 |                          |                        |         |           |
| Ratio of Eligible own funds to SCR                            | R0620          | 2.17      |                          |                        |         |           |
| Ratio of Eligible own funds to MCR                            | R0640          | 4.26      |                          |                        |         |           |

| Business and performance | System of<br>governance | Risk profile | Valuation for<br>Solvency<br>purposes | Capital<br>management |
|--------------------------|-------------------------|--------------|---------------------------------------|-----------------------|
|--------------------------|-------------------------|--------------|---------------------------------------|-----------------------|

|   |       | C0060     |
|---|-------|-----------|
| Reconciliation reserve  |       |           |
| Excess of assets over liabilities   | R0700 | 7,047,374 |
| Own shares (held directly and indirectly)   | R0710 |           |
| Foreseeable dividends, distributions and charges  | R0720 | 31,553    |
| Other basic own fund items  | R0730 | 4,264,512 |
| Adjustment for restricted own fund items in respect of matching adjustment portfolios and ring fenced funds | R0740 |           |
| Reconciliation reserve  | R0760 | 2,751,309 |
| Expected profits  |       |           |
| Expected profits included in future premiums (EPIFP) - Life business  | R0770 | 359,798   |
| Expected profits included in future premiums (EPIFP) - Non- life business                                   | R0780 |           |
| Total Expected profits included in future premiums (EPIFP)  | R0790 | 359,798   |

# S.25.02.21 Solvency Capital Requirement - for undertakings using the Standard Formula and partial Internal Model

| Model                      |                                |   |            |       |                 |
|----------------------------|--------------------------------|---|------------|-------|-----------------|
|                            |                                | Calculation of<br>the Solvency<br>Capital | Amount     |       |                 |
| Unique number of component | Components description         | Requirement                               | modelled   | USP   | Simplifications |
| C0010                      | C0020                          | C0030                                     | C0070      | C0090 | C0120           |
|                            | Total capital requirement for  |   |            |       |                 |
| 1001                       | market risk                    | 2,819,887                                 | 2,819,887  |       |                 |
|                            | Total capital requirement for  |   |            |       |                 |
|                            | market risk Seperate account   |   |            |       |                 |
| 1002                       | business                       | 826,487                                   | 826,487    |       |                 |
|                            | Total capital requirement for  |   |            |       |                 |
| 1003                       | counterparty default risk      | 36,368                                    | 36,368     |       |                 |
| 1004                       | Overall Insurance Risk         | 2,704,787                                 | 2,704,787  |       |                 |
| 1005                       | Overall Business Risk          | 1,129,632                                 | 1,129,632  |       |                 |
| 1006                       | Operational risk               | 325,154                                   | 325,154    |       |                 |
|                            | Loss-absorbing capacity of     |   |            |       |                 |
|                            | tech. provisions if not        |   |            |       |                 |
| 8                          | modelled within components     | -91,516                                   | -91,516    |       |                 |
|                            | Loss absorbing capacity for    |   |            |       |                 |
|                            | deferred taxes if not modelled |   |            |       |                 |
| 9                          | within components              | -1,049,207                                | -1,049,207 |       |                 |

| Calculation of Solvency Capital Requirement   |       | C0100      |
|---|-------|------------|
| Total undiversified components  | R0110 | 6,701,592  |
| Diversification   | R0060 | -3,155,380 |
| Capital requirement for business operated in accordance with Art. 4 of Directive 2003/41/EC | R0160 | 3,546,212  |
| Solvency capital requirement excluding capital add-on                                       | R0200 | 3,546,212  |
| Capital add-ons already set   | R0210 | -6,600     |
| Solvency capital requirement  | R0220 | 3,539,612  |
| Other information on SCR  |       |            |
| Amount/estimate of the overall loss-absorbing capacity of technical provisions              | R0300 | -91,516    |
| Amount/estimate of the overall loss-absorbing capacity ot deferred taxes                    | R0310 | -1,049,207 |
| Capital requirement for duration-based equity risk sub-module                               | R0400 |            |
| Total amount of Notional Solvency Capital Requirements for remaining part                   | R0410 |            |
| Total amount of Notional Solvency Capital Requirements for ring fenced funds                | R0420 |            |
| Total amount of Notional Solvency Capital Requirement for matching adjustment portfolios    | R0430 |            |
| Diversification effects due to RFF nSCR aggregation for article 304                         | R0440 |            |

## S.28.01.01 Minimum Capital Requirement - Only life or only non-life insurance or reinsurance activity

|  |       |   | C0010  |
|--|-------|---|--|
| MCR <sub>NL</sub> Result   |       | R0010   |  |
|  |       | Net (of<br>reinsurance/SP<br>V) best<br>estimate and<br>TP calculated<br>as a whole | Net (of<br>reinsurance)<br>written<br>premiums in<br>the last 12<br>months |
|  |       | C0020   | C0030  |
| Medical expense insurance and proportional reinsurance                   | R0020 |   |  |
| Income protection insurance and proportional reinsurance                 | R0030 |   |  |
| Workers' compensation insurance and proportional reinsurance             | R0040 |   |  |
| Motor vehicle liability insurance and proportional reinsurance           | R0050 |   |  |
| Other motor insurance and proportional reinsurance                       | R0060 |   |  |
| Marine, aviation and transport insurance and proportional reinsurance    | R0070 |   |  |
| Fire and other damage to property insurance and proportional reinsurance | R0080 |   |  |
| General liability insurance and proportional reinsurance                 | R0090 |   |  |
| Credit and suretyship insurance and proportional reinsurance             | R0100 |   |  |
| Legal expenses insurance and proportional reinsurance                    | R0110 |   |  |
| Assistance and proportional reinsurance                                  | R0120 |   |  |
| Miscellaneous financial loss insurance and proportional reinsurance      | R0130 |   |  |
| Non-proportional health reinsurance                                      | R0140 |   |  |
| Non-proportional casualty reinsurance                                    | R0150 |   |  |
| Non-proportional marine, aviation and transport reinsurance              | R0160 |   |  |
| Non-proportional property reinsurance                                    | R0170 |   |  |

|             | C0040           |
|-------------|-----------------|
| MCR∟ Result | R0200 1,744,413 |
|             |                 |
|             |                 |
|             | Net (of         |

|   |       | reinsurance/SP |                  |
|---|-------|----------------|------------------|
|   |       | V) best        | Net (of          |
|   |       |                | reinsurance/SP   |
|   |       |                | V) total capital |
|   |       | as a whole     | at risk          |
|   |       | C0050          | C0060            |
| Obligations with profit participation - guaranteed benefits           | R0210 | 14,055,230     |                  |
| Obligations with profit participation - future discretionary benefits | R0220 | 91,516         |                  |
| Index-linked and unit-linked insurance obligations                    | R0230 | 13,361,191     |                  |
| Other life (re)insurance and health (re)insurance obligations         | R0240 | 51,346,757     |                  |
| Total capital at risk for all life (re)insurance obligations          | R0250 |                | 81,882,540       |

|                             |       | C0070     |
|-----------------------------|-------|-----------|
| Linear MCR                  | R0300 | 1,744,413 |
| SCR                         | R0310 | 3,539,612 |
| MCR cap                     | R0320 | 1,592,825 |
| MCR floor                   | R0330 | 884,903   |
| Combined MCR                | R0340 | 1,592,825 |
| Absolute floor of the MCR   | R0350 | 3,700     |
|                             |       | C0070     |
| Minimum Capital Requirement | R0400 | 1,592,825 |

# **Contact and legal information**

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Nationale-Nederlanden Levensverzekering Maatschappij N.V. is part of NN Group N.V.

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