2018 SFCR ASR Levensverzekering N.V.

a.s.r. de nederlandse verzekerings maatschappij voor alle verzekeringen

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2018

SFCR ASR Levensverzekering N.V.

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Introduction

The structure of the Solvency and Financial Condition Report (SFCR) has been prepared as described in annex XX of the Solvency II Directive Delegated Regulation. Directive Delegated Regulation. The subjects addressed are based on article 51 to 56 of the Solvency II Directive and act 292 up to and including 298 and act 359 of the Delegated Regulation. Furthermore, the figures presented in this report are in line with the supervisor's reported Quantitative Reporting Templates.

All amounts in this report, including the amounts quoted in the tables, are presented in millions of euros (€ million), being the functional currency of ASR Levensverzekering N.V. (hereafter referred to as a.s.r. leven), unless otherwise stated.

In 2016, the NBA alert 40 was published by the NBA. The alert describes how insurance companies handle their materiality policy for Solvency figures. The materiality policy of a.s.r. is aligned with the alert.

Summary

The 2018 Solvency and Financial Condition Report provides ASR Levensverzekering N.V.'s stakeholders insight in:

A. Business and performance

The Solvency II ratio stood at 202% as at 31 December 2018, based on the standard formula as a result of \notin 5,448 million Eligible Own Funds and \notin 2,694 million Solvency Capital Requirement (SCR).

a.s.r. leven generated € 1,566 million in Gross Written Premiums (GWP) in 2018. (2017: € 1,453 million). Profit for 2018 was € 575 million (2017: € 739 million). Last year's profit before tax included a higher level of realised capital gains in indirect (incidental) investment results. In 2018, operating expenses increased by € 1 million to € 185 million (2017: € 184 million). Gross written premiums increased to € 1,566 million (2017: € 1,453 million) The increase was mostly due to the inclusion of Generali Nederland Life. Sales in the Pension DC-product ('WerknemersPensioen') more than offset the decline in Individual Life. Full details on the a.s.r. leven's business and performance are described in chapter A Business and performance (page 11).

B. System of governance

This paragraph contains a description of group policy, which is applicable for the solo entity.

General

a.s.r. is a public company with limited liability under Dutch Law. The company has a two-tier board system; with a Supervisory Board and an Executive Board. a.s.r. has been listed on Euronext Amsterdam since 10 June 2016. a.s.r. applies the full two-tier regime (volledige structuurregime).

The Supervisory Board performs its duties based on three roles; the supervisory role, the advisory role and the employer's role. The Supervisory Board supervises the policy pursued by the Executive Board and the general course of affairs at a.s.r. and its group entities. Specific powers are vested in the Supervisory Board, including the approval of certain decisions taken by the Executive Board.

Risk management

It is of great importance to a.s.r. that risks within all business lines are timely and adequately controlled. In order to do so, a.s.r. has implemented a Risk Management framework based on internationally recognized and accepted standards. With the aid of this framework, material risks that a.s.r. is, or can be, exposed to are identified, measured, managed, monitored and evaluated. The framework is both applicable to a.s.r. group and the underlying business entities.

Control environment

In addition to risk management, a.s.r.'s Solvency II control environment consist of an internal control system, an actuarial function, a compliance function and an internal audit function. The system of internal control includes the management of risks at different levels in the organization, both operational and strategic. Internal control at an operational level centres around identifying and managing risks within the critical processes that pose a threat to the achievement of the business line's objectives. The actuarial function is responsible for expressing an opinion on the adequacy and reliability of reported technical provisions, reinsurance and underwriting. The mission of the compliance function is to enhance and ensure a controlled and sound business operation where impeccable, professional conduct is self-evident. The Audit Department provides a professional and independent assessment of the governance, risk management and internal control processes with the aim of aiding management in achieving the company's objectives. The Audit Department evaluates the effectiveness of governance, risk management and internal control processes, and gives practical advice on process optimization.

Full details on the a.s.r.'s system of governance are described in chapter B System of governance (page 20).

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C. Risk profile

a.s.r. leven applies an integrated approach in managing risks, ensuring that our strategic goals (customer interests, financial solidity and efficiency of processes) are maintained. This integrated approach ensures that value will be created by identifying the right balance between risk and return, while ensuring that obligations towards our stakeholders are met. Risk management supports a.s.r. leven in the identification, measurement and management of risks and monitors to ensure adequate and immediate actions are taken in the event of changes in a.s.r. leven's risk profile.

a.s.r. leven is exposed to the following types of risks: insurance risk, market risk, counterparty default risk, liquidity risk, operational risk and strategic risk. The risk appetite is formulated at both group and legal entity level and establishes a framework that supports an effective selection of risks.

SCR 2018 2017 147 497 162 430 1,427 1,457 -1,034 -985 -469 -553 2,741 2,694 2,256 2,099 Counter-party Counter-party Market Diversi-fication LAC DT Diversi-fication LAC DT Insurance Operational SCR Market Insurance Operational SCR

The solvency capital requirement is built up as follows.

Full details on the a.s.r. leven's risk profile are described in chapter C Risk profile (page 42).

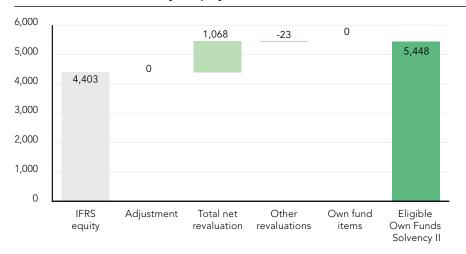
D. Valuation for Solvency purposes

a.s.r. leven values its Solvency II balance sheet items on a basis that reflects their economic value. Where the IFRS fair value is consistent with Solvency II requirements, a.s.r. leven follows IFRS for valuing assets and liabilities other than technical provisions.

The reconciliation of IFRS equity and Excess Assets over Liabilities (Solvency II basis) can be summarized as follows:

- Derecognition of items on the Solvency II economic balance sheet which are admissible on the IFRS balance sheet, for instance goodwill and other intangible assets;
- Revaluation differences on mainly insurance liabilities and other assets which are valued other than fair value in the IFRS balance sheet.

A graphical representation of the reconciliation from Solvency II equity to EOF is presented below:



Reconciliation from Solvency II equity to EOF

Full details on the reconciliation between a.s.r. leven's economic balance sheet based on Solvency II and consolidated financial statements based on IFRS are described in chapter D Valuation for solvency purposes (page 65).

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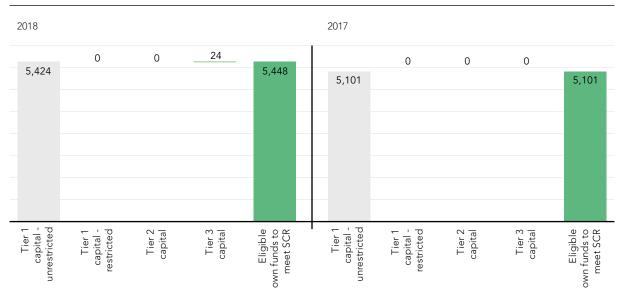
E. Capital management

Overall capital management is administered at group level. Capital generated by operating units and future capital releases will be allocated to profitable growth of new business or repatriated to shareholders, beyond the capital that is needed to sustain commercial capital levels at management's targets.

a.s.r. leven has no partial internal model and follows the default method for the determination of the group solvency. a.s.r. leven maintains an internal minimum and management target for the Solvency II ratio. The internal minimum Solvency II ratio for a.s.r. leven as formulated in the risk appetite statement is 120%. The management threshold level for the Solvency II ratio as safely above 160%. a.s.r. only distributes cash dividends if the interest of the policyholders has been ensured (i.e. a Solvency II ratio above 140%). The Solvency II ratio was 202% at 31 December 2018.

The EOF are built up as follows:

Eligible Own Funds



Full details on the capital management of a.s.r. leven can be found in chapter E Capital Management (page 76).

A Business and performance

A.1 Business

A.1.1 Profile

Object of the company

ASR Levensverzekering N.V. (hereinafter: a.s.r. leven) is a subsidiary of ASR Nederland N.V. (hereinafter: a.s.r.). a.s.r. leven wants to enable people to insure themselves against risks they are unable or unwilling to bear themselves. a.s.r. leven is convinced that its right to exist is justified by thinking in terms of customer interests and perception. The products and services of a.s.r. leven must be in line with this. Understandability and simplicity combined with efficient business processes and a solid financial position are essential. Customers can count on their risk coverage being held by an insurer that avoids waste, listens to them, thinks along with them and is accessible through various channels.

Customers need transparent products, clear communication and personal service. a.s.r. leven has made it its main goal to meet these needs. For example, activities and objectives of a.s.r. leven are tested against the interests of the customer and products are presented to customer panels. Customer demands and the wishes expressed by customers are included in product development. Ultimately, this is reflected in the valuation of customers as measured by the Net Promoter Score (NPS). The NPS measures the extent to which customers would recommend a.s.r. leven to their relatives and friends.

Core activities

The objective is achieved by offering insurance policies aimed at wealth accumulation, asset protection, death risk and funeral for consumers and entrepreneurs. The insurances are offered via the brands a.s.r. and Ardanta.

Legal structure of the company

a.s.r. leven is a wholly-owned subsidiary of a.s.r. a.s.r. is a public limited company under Dutch law having its registered office located at Archimedeslaan 10, 3584 BA in Utrecht, the Netherlands. a.s.r. has chosen the Netherlands as 'country of origin' (land van herkomst) for the issued share capital and corporate bonds which are listed on Euronext Amsterdam and the Irish Stock Exchange (Ticker: ASRNL). a.s.r. launched and priced a € 300 million perpetual non-call 10 year restricted Tier 1 contingent convertible capital instrument on 12 October 2017.

Internal organisational structure and staffing

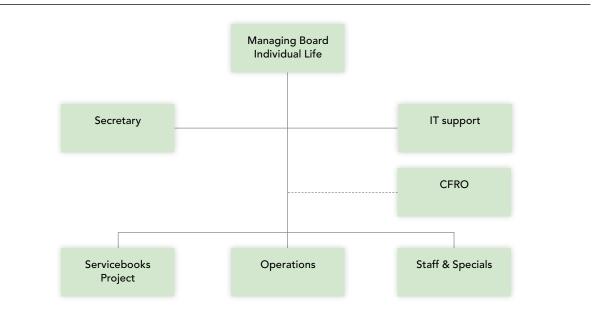
a.s.r. leven includes the product lines Life, Pensions and Funeral. Each product line has its own management and reports directly to the Executive Board. Various services are purchased internally from a.s.r. (Payment Centre, HR, Finance & Risk, Information Technology & Communication (IT&C)). In 2018, Generali Nederland employees were relocated to a.s.r. in Utrecht and integrated into the various departments at a.s.r. leven. All employees of a.s.r. leven are employed by a.s.r. Total FTE staff of a.s.r. leven (including former Generali Nederland staff) fell to 607 FTEs at year-end 2018 (2017: 623 FTEs).

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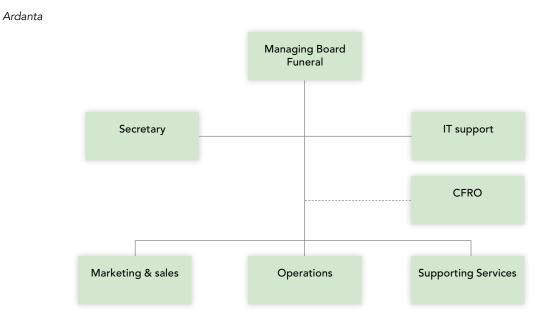
Organisational charts

Below, the organisational charts of the three productions lines within ASR Levensverzekering N.V. are presented:

Structure Life

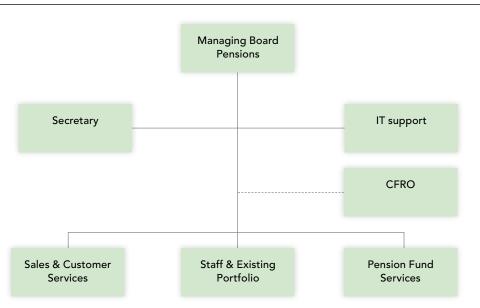


Structure funeral business



Business and performance





Headcount

Total FTE staff of a.s.r. leven (including former Generali staff) fell to 607 FTEs at year-end 2018 (2017: 623 FTEs).

Key elements of pursued policy

Pensions

a.s.r. leven focuses on clear, simple, cost-conscious pension products. a.s.r. leven's DC proposition (WerknemersPensioen) aims to be competitively priced (top 3), rewarded for its fund selection (SRI funds) by independent intermediaries and digital in its communications to participants. In 2018, a.s.r. leven strengthened the position of the WerknemersPensioen in the market by improving customer portals and optimising sales & customer service. The results of these efforts are reflected in the progress a.s.r. leven has made in the IG&H pension survey (climbing from the lowest place in 2016 to 4th place in 2018). The goal is to rank in the top 3.

a.s.r. leven continued to reduce complexity in the existing portfolio by offering more standardised products. The renewal of DB contracts is considered if customers are intending to shift to DC in the near future and meet strict financial criteria consistent with the year before. a.s.r.'s strategy for its existing DB book is to maintain its value, reduce capital requirements, enhance cost coverage and minimise risks. The DB book will gradually become a service book as more employers opt for other pension solutions.

The programme to migrate and integrate the Generali Nederland book to the existing a.s.r. leven platform is on track completion scheduled for 2020) while the same services will be offered to customers and the market position improved. Pensions has already brought these plans forward from Q4 2020 to Q1 2020. The migration of inactive participants from the old legacy system of 'De Amersfoortse' was completed in 2018, contributing to further cost reduction and variabilisation.

Individual life

The strategy of Individual life is to maximise and maintain the current value of the individual life book. To achieve this, a.s.r. leven focuses on optimising customer satisfaction and on reducing and variabilising costs.

To increase the value of the individual life book, a.s.r.'s strategy is to optimise customer satisfaction. It believes that maintaining customer satisfaction is crucial for efficiently managing the way in which customers behave and in order to limit unnatural lapses. While focusing on customer satisfaction, a.s.r. leven is also striving to further digitise and robotise its services and to make these services easier for customers to use.

In order to preserve the value of the individual life book, a.s.r. leven aims to simplify its organisation and shift its cost base from fixed costs to more variable costs. In order to reduce costs and introduce variabilisation, a.s.r. leven is simplifying processes and rationalising and migrating the service book to a SaaS platform. a.s.r. intends to maintain this strategy, analysing books on an individual basis to find the most appropriate and value-enhancing solution while minimising operational costs and complexity. The migration programme is on track. Six books containing 515,000 policies have now been successfully migrated (three in 2018) and two books are planned for 2019, including the recently acquired Generali Nederland life book which will be migrated to the same cost-efficient SaaS platform.

Funeral

Funeral's (Ardanta) strategy is on growth through acquisitions, developing customer-focused initiatives and simultaneously maintaining its low-cost operating platform. In 2018, the portfolios of Generali Nederland and PC Uitvaart were integrated into Ardanta. A total of 360,000 Generali Nederland policies and PC Uitvaart customers were thus transferred to the Ardanta platform.

Ardanta is committed to increasing digital process support. Thanks to improved customer portals and service & contact pages, customers and intermediaries experience an increasing digital ease of use. Printed output has also significantly reduced. In 2018, 25% (€ 0.7 million) of new business came from the online channel. The accessibility of the website for users with an audio-visual disability was also improved, and work to further enhance digital ease of use will continue.

Market and distribution developments

Pensions

There is a clear shift in the pensions market towards capital-light products, and this is expected to continue. a.s.r. leven believes it is well positioned to increase market share with its DC and IORP proposition, through high-level service, cost-effectiveness and capacity for execution, while still meeting its pricing policy. a.s.r. leven's modern DC proposition ('WerknemersPensioen') has been further developed to strengthen its competitive position and accelerate growth in the DC market. Through this proposition, a.s.r. believes it is well positioned for further individualisation in the future which may result from the current pension debate in the Netherlands.

a.s.r. is also active in the pension market through Het nederlandse pensioenfonds (Hnpf), for which it delivers pension administration and asset management. Hnpf was established by a.s.r. in 2016 to offer new and existing customers an alternative DB product. The first customers were welcomed in 2017 and in 2018 Stichting Pensioenfonds Arcadis Nederland (Arcadis Netherlands Pension Fund) transferred its pension scheme to Hnpf. Hnpf is one of the four major general pension funds in the Netherlands and currently has € 1.3 billion in committed assets. a.s.r. is the pension administrator for or the 14,000 Hnpf customers.

Individual life

The premium volume has declined in the individual life market in recent years due to low interest rates and tax changes. This decline is expected to continue in the next years. From 1 January 2018, a.s.r. leven only offers term life insurance products, all other products have become a closed service book.

a.s.r. leven is well positioned to become the consolidator in the Dutch back book market. With the acquired activities of Generali Nederland, a.s.r. leven added 'external block of business' for the first time. The book will be migrated towards the Software as a Service (SaaS) platform in the same way as the other individual life service book.

Funeral

The market is characterised by consolidation. As a result of the low interest environment, premium levels of funeral insurance have been raised in the past few years. The distinctive selling point of Ardanta is the 'free choice' with respect to the delivery of funeral services, and as a consequence Ardanta has an unique market position which is cherished.

Internal control of processes and procedures

Risk management is an integral part of a.s.r.'s daily business operations. a.s.r. applies an integrated approach to managing risks ensuring that strategic objectives are met. The Risk Management Function (RMF) supports and advises a.s.r. leven in identifying, measuring and managing risks, and monitors that adequate and immediate action is taken in the event of developments in the risk profile. a.s.r. leven is exposed to the following types of risk: market risk, counterparty default risk, liquidity risk, insurance risk (Life), strategic risk and operational risk. The risk management approach is described in more detail in paragraph 2.7.

The quality of internal control within a.s.r. leven is assured by means of a Risk and Control Matrix (RCM) as part of a.s.r.'s Operational Risk Management (ORM) policy. This framework has been developed from an integral risk management perspective and, based on the framework and the a.s.r. ORM policy, the effectiveness of key controls in the core processes is periodically tested and management is informed of the results.

The results are reported every quarter to the Business Risk Committee of Life as well as to the Non-financial Risk Committee of a.s.r. on a quarterly basis. The report also focuses on the management of strategic and compliance risks.

New products and services with the corresponding customer brochures are subjected to an internal 'Product Approval and Review Process (PARP)'. Submitting products and services to customer and intermediary panels is often part of this before the PARP board gives its approval. It is assessed to what extent the wishes and ideas of customers can be included in the product development.

Existing products and services are regularly tested against the changing customer needs based on PARP. In addition, work processes at customers are tested on the basis of a 'customer trip'. In this context, a process from the first to the last step is presented to customers and their comments are taken into account in order to improve the process so that it better meets the needs and expectations of the customer. Ultimately this can be seen in the customer's valuation as measured by the Net Promoter Score (NPS).

The risks due to outsourcing, are mitigated by periodically monitoring Service Level Agreements and controls based on ISAE3402 reports.

Quality control

The quality management of a.s.r. leven contains policies, procedures and principles about how we want to serve our customers. The quality management is aimed at achieving optimal customer satisfaction and is taken into account in all contacts with our customers. Internal standards have been set and are used to actively comply with the a.s.r. leven quality standards and in the continuous improvement of our services.

For the operational departments, including the client contact offices (front office) and the back office, the objectives in terms of customer focus and the internal standards of a.s.r. leven have been translated into operational KPIs. These contribute to the control of our communication with customers in terms of being error-free, transparency and speed of processing. Handling complaints is also central in this context. The KPIs are managed on a daily basis by the relevant management and staff. The results of the KPIs are periodically shared and discussed at all levels within a.s.r. leven. Collaboration in risk governance contributes to ensuring customer satisfaction and putting the client's interests first.

Training of employees

a.s.r. leven believes it is important to continuously educate its employees in knowledge and skills. Various training initiatives have been set up for this purpose. The initiatives receive continuous attention at both a general level and an individual level.

Continuous training takes place through:

- Twice a year the compulsory Permanent Training sessions for all employees.
- At individual level, the training tool of a.s.r. is used and appropriate education is provided at job level. The aim is to ensure that every employee is and remains permanently trained and up-to-date.
- A training plan is drawn up for new employees and updated after each evaluation session based on experience.
- The Gamification tool is available to all employees, which helps them interactively to refresh and deepen their knowledge of, among other things, integrity issues on a daily basis.
- Awareness programme on various themes as for instance information (cyber) security risk and the General Data Protection Regulatory.

Finance

Overall capital management is administered at group level. a.s.r. currently plans to consider investing capital above the Solvency II ratio (calculated based on the standard formula) of 160% (management threshold level) with the objective of creating value for its shareholders. If and when a.s.r. operates at a level considerably above the management threshold level and it believes that it cannot invest this capital in value-creating opportunities for a prolonged period of time, it may decide to return (part of this) capital to shareholders. If a.s.r. chooses to return capital, it plans to do so in a form that is efficient for shareholders at that time. a.s.r. actively manages its in-force business, which is expected to result in free capital generation over time. Additionally, business improvement and balance sheet restructuring should improve the capital generation capacity while advancing the risk profile of the company. a.s.r. leven is capitalized separately, and excess capital over management's targets are intended to be up-streamed to the holding company to the extent local regulations allow and within the internal risk appetite statement. In 2018, a capital upstream of €386 million (2017: €395 million) to the holding company took place.

A.1.2 General information

The Solvency and Financial Condition Report is presented in euros (€), being the functional currency of ASR Levensverzekering N.V. All amounts quoted in the tables contained in the SFCR are in millions of euros, unless otherwise indicated.

The SFCR has been prepared by and is the sole responsibility of the Company's management. Selected Own Funds and SCR information are also reported in a.s.r. financial statements. EY has examined the 2018 financial statements and issued a report thereon.

Name and contact details of the supervisory authority

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+31 800 020 1068
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info@dnb.nl

Name and contact details of the external auditor

Name:	EY
Visiting address:	Cross Towers, Antonio Vivaldistraat 150, 1083 HP Amsterdam
Phone number:	+31 88 407 1000

A.2 Underwriting performance

Key figures

- The profit for the year amounted to € 575 million (2017: € 739 million);
- Gross insurance premiums increased by 8% to€ 1,566 million (2017: € 1,453 million);
- Operating expenses increased to € -185 million (2017: € -184 million);

Key figures ASR Aanvullende Ziektekostenverzekeringen N.V.

(in € millions)	201	B 2017 ¹⁾
Gross premiums written ¹	1,560	5 1,453
Operating expenses	-185	-184
Profit before tax	810	6 941
Income tax (expense) / gain	-24	-202
Profit for the year	575	5 739
New business (APE)	119	89

1 Including DC staff pension plan of € 106 million (2017: € 79 million)

Gross written premiums

Gross insurance premiums increased by 8% to \leq 1,566 million (2017: \leq 1,453 million). Excluding the Generali Nederland's contribution of \leq 95 million the Life segment increased by \leq 18 million. The decrease in Individual Life premium (\leq 70 million) was more than compensated by new business in Pensions (\leq 68 million) and Funeral (\leq 19 million). The growth of Pensions is driven by the 'WerknemersPensioen', which increased by \leq 85 million. The increase in gross insurance premiums at Funeral is mainly related to the acquisition of the PC Uitvaart portfolio, which was transferred to Funeral on 1 October 2018. Underlying the Funeral portfolio decreased slightly due to (un-)natural surrenders.

Operating expenses

Gross insurance premiums increased by 8% to \leq 1,566 million (2017: \leq 1,453 million). Excluding the Generali Nederland's contribution of \leq 95 million the Life segment increased by \leq 18 million. The decrease in Individual Life premium (\leq 70 million) was more than compensated by new business in Pensions (\leq 68 million) and Funeral (\leq 19 million). The growth of Pensions is driven by the 'WerknemersPensioen', which increased by \leq 85 million. The increase in gross insurance premiums at Funeral is mainly related to the acquisition of the PC Uitvaart portfolio, which was transferred to Funeral on 1 October 2018. Underlying the Funeral portfolio decreased slightly due to (un-)natural surrenders.

Profit for the year

The net result for 2018 amounted to € 575 million (2017: € 739 million). Last year's profit before tax included a higher level of realised capital gains in indirect (incidental) investment results. The decline in the stock market in 2018 resulted in higher level of equity impairments. The operational result of Life business remained stable.

New business (APE)

New business increased by \in 30 million to \in 119 million (2017: \in 89 million). This is mainly explained by firm increase in Pension. Funeral showed also an increase mostly due to the inclusion of the 'PC Uitvaart' portfolio.

Solvency and liquidity at reporting date

Overall capital management is administered at Group level. Capital generated by operating units and future capital releases will be either allocated to profitable growth of new business or repatriated to shareholders, beyond the capital that is needed to sustain commercial capital levels at management's targets.

The solvency ratio stood at 202% at 31 December 2018 (2017: 186%), which was comfortably higher than the lower limit solvency target of 140% and the management target of above 160%.

A.3 Investment performance

a.s.r.'s investment policy is aimed at striking a balance between generating returns and preventing risks. Protecting the solvency position is an important factor in this context.

A.3.1 Financial assets and derivatives

Investments		
	31 December 2018	31 December 2017
Investments (financial assets)		
Available for sale (chapter 2.4.5.1)	20,797	19,450
At fair value through profit or loss (chapter 2.4.5.2)	1,964	1,739
	22,761	21,189

The investments at fair value through profit or loss increased in 2018 by \in 225 million primarily due to additional investments in a.s.r.'s mortgage equity fund and real estate equity funds.

Breakdown of investments

		31	December 2018		3	1 December 2017
	Available for sale	Fair value through profit or loss	Total	Available for sale	Fair value through profit or loss	Total
Fixed income investments						lotai
Government bonds	9,523	-	9,523	8,360	-	8,360
Corporate bonds	8,986	-	8,986	8,497	-	8,497
Asset-backed securities	96	-	96	116	-	116
Equities and similar	-					
investments						
Equities	2,192	31	2,223	2,477	36	2,513
Real estate equity funds	-	1,296	1,296	-	1,174	1,174
Mortgage equity funds	-	44	44	-	-	-
Other participating interests	-	-	-	-	-	-
Subsidiaries	-	593	593	-	529	529
Other investments	-	-	-	-	-	-
Total investments	20,797	1,964	22,761	19,450	1,739	21,189

In 2018, government bonds increased to € 9,523 million (2017: € 8,360 million) primarily due to the acquisition of Generali Nederland. Equities declined to the amount of € 2,223 million (2017: € 2,513 million) due to de-risking and the development of the stock market. The increase in real estate equity funds is primarily related to positive revaluations. For the real estate equity funds for which ASR Levensverzekering N.V. has significant influence, being ASR DMOF, ASR DPRF and ASR DCRF, the exemption of IAS 28 was used, thereby measuring the investments at fair value through profit or loss and presenting them as a separate category within the investments at fair value through profit or loss.

Investment income

Breakdown of investment income per category 2018 2017 Interest income from receivables due from credit institutions 147 149 Interest income from investments 322 321 Interest income from amounts due from customers 244 231 Interest income from trade receivables and derivatives 251 215 Other interest income 19 20 935 985 Interest income Dividend on equities 60 53 Dividend on subsidiairies 23 15 Dividend on real estate equity funds 47 45 Rentals from investment property 48 56 Dividend and other investment income 178 169 **Total Investment income** 1,163 1,104

Comparative figures have been restated for the reclassification of APF to investments at fair value through profit or loss. The impact is € +15 million dividend on subsidiairies.

The effective interest method has been applied to an amount of € 714 million of the interest income from financial assets not classified at fair value through profit or loss (2017: € 698 million). Interest income includes € 5 million (2017: € 7 million) in interest received on impaired fixed-income securities.

A.3.2 Company statement of comprehensive income

Company statement of comprehensive income for the year ended 31 December

(in € millions)	Note	2018	2017
Profit for the year			739
Unrealised change in value of property for own use	2.4.2	8	4
Income tax on items that will not be reclassified to profit or loss		-2	-1
Total items that will not be reclassified to profit or loss		6	3
Unrealised change in value of available for sale assets	2.4.5.1	-323	98
Realised gains/(losses) on available for sale assets reclassified to profit or loss		-206	-338
Shadow accounting	24.14	239	405
Segregated investment pools		114	-43
Income tax on items that may be reclassified subsequently to profit or loss		30	-19
Total items that may be reclassified subsequently to profit or loss			103
Total other comprehensive income for the year, after tax		-140	106
Total comprehensive income		435	845

The numbers following the line items refer to the relevant chapters in the notes.

Shadow accounting allows a recognised but unrealised gain or loss on an asset to be transferred to liabilities arising from insurance contracts (see accounting policy I.

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A.3.3 Information about investments in securities

As a.s.r. leven has no investments in securitization, no further information is included here.

A.4 Performance of other activities

No other information is material.

A.5 Any other information

No other information is material.

B System of governance

In the case where the text below refers to 'the company', a.s.r. Leven is meant.

B.1 General information on the system of governance

B.1.1 Corporate governance

Executive Board

The Executive Board is collectively responsible for the day-to-day conduct of business of a.s.r. as a whole and for its strategy, structure and performance. In performing its duties, the Executive Board is guided by a.s.r.'s interests, which include the interests of the businesses connected with a.s.r., which, in turn, include the interests of customers, shareholders, employees and society in general. For the performance of its duties, the Executive Board is accountable to the Supervisory Board and to the General Meeting of shareholders.

The Executive Board consists of four members. The General Meeting of Shareholders appoints the members of the Executive Board and may suspend or dismiss any member of the Executive Board at any time. The Supervisory Board may also suspend any member of the Executive Board. A suspension by the Supervisory Board may be initiated by the General Meeting of Shareholders at any time.

In addition to the Executive Board, the three divisions of a.s.r. Leven each have their own management team (MT).

Supervisory Board

The Supervisory Board performs its duties on the basis of three roles; the supervisory role, the advisory role and the employer's role. The Supervisory Board supervises the policy pursued by the Executive Board and the general course of affairs at a.s.r. and its group entities. Specific powers are vested in the Supervisory Board, including the approval of certain decisions taken by the Executive Board.

The Supervisory Board consists of four members. The General Meeting of Shareholders appoints the members of the Supervisory Board and may suspend or dismiss any member of the Supervisory Board at any time.

B.1.1.1 Corporate Governance

This paragraph contains a description of group policy, which is applicable for a.s.r. leven.

The Supervisory Board has three committees that discuss specific issues and prepare items on which the full Supervisory Board takes decisions. The chairperson of each committee reports on the main points of discussion and the resulting recommendations are discussed in the subsequent Supervisory Board meeting. The minutes of the committee meetings are available to the members of the Supervisory Board.

- The three committees are the:
- Audit & Risk Committee;
- Remuneration Committee; and
- Selection & Appointment Committee.

Audit & Risk Committee

In 2018, the composition of the Audit & Risk Committee was as follows:

- Cor van den Bos (Chairman)
- Sonja Barendregt
- Herman Hintzen

The Audit & Risk Committee comprises three Supervisory Board members. The composition of the Committee is such as to represent the specific business know-how, financial, accounting and actuarial expertise relating to the activities of a.s.r. Sonja Barendregt succeeded Annet Aris, who stepped down as a member of the Audit & Risk Committee. The Audit & Risk Committee is grateful for the many valuable contributions made by Ms Aris to the committee's discussions.

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The Committee held six regular meetings in 2018. In accordance with the Audit & Risk Committee Rules, committee meetings are also attended by the CFO, the Director of Group Risk Management, the Director of Group Accounting, Reporting & Control, the Director of Finance & Risk, the Director of Compliance, the Director of Audit and the independent external auditor.

During the year, outside the regular meetings, the Committee met on two occasions with the Audit, Compliance, Risk Management and Actuarial Functions in their roles as countervailing powers. The Committee Chairman also had two one-to-one meetings with each of the directors of Audit, Compliance and Group Risk Management, and two meetings with the external auditor EY.

After each financial quarter, the Committee discussed the financial results based on detailed financial, risk, compliance and internal and external audit reports and analyses. Progress on the recommendations of the internal and external auditor was monitored. The full 2018 reporting year was discussed in the first quarter of 2019 based on the (quarterly) internal finance report, the press release, the Annual Report, the financial statements, the Board Report and the actuarial report. The discussion of the actuarial report was also attended by the Actuarial Function. The Committee issued positive opinions on the Annual Report and on the financial statements to the Supervisory Board.

The Committee discussed and adopted the external auditor's letter of engagement and the audit plan for 2018. The external auditors' independence and additional fees were also reviewed each quarter. The management letter of the external auditor highlighting key internal control observations was discussed. Also, the external auditors audit results report was discussed. Special attention was given to the reported key audit matters: fair value measurement of non-listed investments, valuation and adequacy of insurance contract liabilities including shadow accounting, unit-linked exposure, Solvency II, the Generali Nederland acquisition, classification of a.s.r. bank as held for sale and discontinued operation, and reliability and continuity of electronic data processing. In addition, the Committee discussed with the external auditor their assessment report regarding the Solvency II and IFRS LAT key non-economic assumptions. Following the creation of the BEC in early 2019, the Audit & Risk Committee approved the updated charters of the Actuarial and Risk Management Function and the Compliance Function. It advised the Supervisory Board to approve the updated charter of the internal Audit Functior; this advice was followed. The 2019 annual plans for the countervailing powers were also discussed and approved. Following positive advice from the Committee, the Supervisory Board approved the 2019 annual plan of the Audit department.

Following the completion of the acquisition early 2018, the progress of the integration of Generali Nederland, its contribution to the financial results and its (limited) impact on a.s.r.'s risk profile was discussed. The effect of the acquisition on the audit plan was also discussed and the audit plan was amended accordingly.

Specific topics discussed in the Committee included cyber risks and IT security. a.s.r. researched the risk of business discontinuity and concluded that the cyber threats and requests for continuous improvements were increasing but that at this point the organisation was relatively well-protected against external cyber risks. a.s.r. adopts a prudent stance in this emerging market.

New business in the Dutch life insurance market is very limited. Cost control and the future development of costs are therefore key for future profitability. The Committee discussed cost developments, not just at its regular quarterly meetings, but also in the context of a.s.r.'s long-term costs. In the last couple of years, a.s.r. has been successful in managing its costs in line with the lower cost coverage from the life business.

a.s.r.'s solvency position was reviewed and discussed each quarter. Specific attention was paid to the UFR effect. The benchmark showed that the remuneration paid was well below the benchmark median. Based on this, the Supervisory Board will propose an adjustment of the remuneration of the Supervisory Board to the shareholders at the Annual General Meeting of ASR Nederland N.V. (AGM) in May 2019, given that it does not currently accurately reflect the time spent on, and the increased responsibility of, their duties.

Remuneration Committee

In 2018, the composition of the Remuneration Committee was as follows:

- Annet Aris (Chair)
- Kick van der Pol

The Remuneration Committee advises the Supervisory Board on, among other things, remuneration policy for the Executive Board and the terms and conditions of employment of members of the Executive Board, and reviews the remuneration of senior management.

The Remuneration Committee met eight times in 2018. Its meetings were also attended by the CEO (except when issues relating to the Executive Board were discussed) and the Human Resources Director, who also acts as secretary. The Committee solicits support and advice from departments such as Group Risk Management, Compliance, Audit and Human Resources. Where needed, it calls in the expertise of independent legal and pay & benefit experts.

In line with policy, the Committee advised the Supervisory Board on target-setting, performance appraisals and the ex-post assessments of variable payments awarded to identified staff. At the beginning of 2018, the remuneration policy was updated in line with new regulations and the Remuneration Committee discussed the implementation of the remuneration policy for a.s.r.'s subsidiaries and participations. The results of the internal audit report on the application of a.s.r.'s remuneration policy were discussed.

In 2018, the Remuneration Committee devoted considerable time and attention to the evaluation of the remuneration policy for the Executive Board. The Committee was assisted by an internal committee and a pay & benefits expert. In its evaluation of the remuneration policy the Committee carefully took into account the opinions of all stakeholders, since there was a risk of in order not damaging trust in a.s.r. and to put its market position as a socially responsible insurer at risk. This produced an integrated approach for the evaluation on four perspectives:

- 1. Organisational perspective;
- 2. Internal perspective: consistency with and fairness with regard to the internal wage;
- 3. External perspective: competitiveness with the external market;
- 4. Stakeholder perspective: taking into account the views of various stakeholder groups with regard to remuneration (level and structure): customers, employees, society and shareholders.

The remuneration policy aims to strike a fair balance between the views and interests of these various stakeholder groups.

Extensive analyses have been made and all stakeholder groups have been consulted on possible amendments of the remuneration policy for the Executive Board. In evaluating the remuneration policy, the Committee carefully took into account the opinions of all stakeholders, confidence in and the market position of a.s.r., and a.s.r.'s ability to attract and retain high-performing employees.

The Committee proposed a revised remuneration policy to the Supervisory Board. The Supervisory Board will ask the shareholders to vote on the proposed remuneration policy as from 1 January 2020 for the Executive Board at the AGM in May 2019. The Supervisory Board is aware of the different opinions of the various stakeholders on remuneration. The Supervisory Board believes that the proposal strongly supports the long-term interest of a.s.r. and strikes a good balance between the different interests of stakeholders and offers an effective remuneration to the Executive Board.

The fees for Supervisory Board members were also evaluated. These fees have remained unchanged since 2009. The Dutch Corporate Governance Code states that the remuneration of the Supervisory Board should reflect the time spent on and the responsibility of each function. In recent years, the responsibilities of the Supervisory Board have increased due to changes in governance and legislation and regulations. A benchmark study was conducted as part of the periodical evaluation. The peer group is the same as the one used for the remuneration of Executive Board members. The benchmark showed that the remuneration paid was well below the benchmark median. Based on this, the Supervisory Board will propose an adjustment of the remuneration of the Supervisory Board to the shareholders at the AGM in May 2019, given that it does not currently accurately reflect the time spent on, and the increased responsibility of, their duties.

Selection & Appointment Committee

In 2018, the composition of the Selection & Appointment Committee was as follows:

- Annet Aris (Chair)
- Kick van der Pol

The Selection & Appointment Committee advises the Supervisory Board on selection and appointment procedures and the compositions of the Boards; it also prepares the (re)appointment of members. The Selection & Appointment Committee met six times in 2018. Its meetings are also attended by the CEO and the Human Resources Director, who also acts as secretary.

At the 2018 AGM, Sonja Barendregt was appointed to the Supervisory Board. A selection process for the appointment of a new chairperson was begun in 2018 with the help of an external agency. The Works Council also began their search for a candidate under the terms of Article 2:158 of the Dutch Civil Code. An announcement will be made as soon as there is clarity about the outcome.

The Committee was heavily involved in the discussion and preparation of the new management structure. As described earlier, as a result of these discussions the Supervisory Board decided on the recommandation of the Selection &

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Appointment Committee to change the composition and size of the Executive Board from four to three members and to appoint a BEC. The COO positions superfluous and Karin Bergstein and Michel Verwoest agreed to step down as Executive Board members as from 1 February 2019. A search was begun for a new Executive Board member and an announcement will be made once this search has produced a candidate and the DNB procedure is finished.

Lastly, the Committee discussed the annual appraisals of senior management. A nine-box grid was used to evaluate senior managers and to discuss their individual development and possible successors. The Committee was also informed of the results of the Denison scan, a tool used to measure the success of the organisation.

B.1.1.2 Corporate Governance

General

a.s.r. is a public limited company which is listed on Euronext Amsterdam and governed by Dutch corporate law. It has a two-tier board governance structure consisting of an Executive Board and a Supervisory Board. The Executive Board is responsible for the realisation of corporate objectives, the strategy with its associated risks and the delivery of the results. The Supervisory Board is responsible for advising the Executive Board, supervising its policies and the general state of affairs relating to a.s.r. and its group entities. On 19 November 2018, a.s.r. announced that its management structure would change as of 1 February 2019. From then on, the Executive Board would consist of the CEO, CFO and a new member to be appointed, plus the establishment of a Business Executive Committee (BEC) alongside the Executive Board. The BEC will work in unison with the Executive Board and will share responsibility for the implementation of the business strategy.

History

ASR Nederland N.V. is the Group's holding company. a.s.r. leven is one of the supervised entities (OTSOs) within the Group. On 5 February 2018, ASR Nederland N.V. completed the acquisition of Generali Nederland N.V. by acquiring all issued and outstanding shares. Generali Nederland N.V. was legally merged into ASR Nederland N.V. on 7 May 2018. The operation company Generali levensverzekering maatschappij N.V. legally merged with ASR Levensverzekering N.V. on 29 June 2018.

The Executive Board members and Supervisory Board members of ASR Levensverzekering N.V. are the same as those of ASR Nederland N.V.

B.1.1.3 Executive Board

The Executive Board is collectively responsible for the day-to-day conduct of business at a.s.r. and for its strategy, structure and performance. In carrying out its duties, the Executive Board is guided by a.s.r.'s interests, which include the interests of the businesses connected with it, which in turn include the interests of customers, shareholders, employees and society at large. The Executive Board is accountable to the Supervisory Board and the AGM with regard to the performance of its duties.

Certain resolutions of the Executive Board require approval of the Supervisory Board and/or the AGM. These resolutions are outlined in the articles of association of a.s.r. leven.

Composition

The articles of association specify that the Executive Board must consist of a minimum of two members. Only candidates found to meet the 'fit and proper test' under the Dutch Financial Supervision Act are eligible for appointment. The Supervisory Board appoints the members of the Executive Board and may suspend or dismiss any Executive Board member at any time. The Supervisory Board notifies the AGM of proposed appointments. At the AGM in 2018, the Supervisory Board discussed the reappointment of Chris Figee as CFO; the Supervisory Board subsequently reappointed Chris Figee for an additional four-year term. During 2018, the composition of the Executive Board remained unchanged, consisting of four members under the chairmanship of Jos Baeten. Following the change in the management structure, Karin Bergstein and Michel Verwoest resigned as Executive Board members with effect from 1 February 2019. The selection procedure for a new member of the Executive Board has begun and the nomination of the candidate will be notified as soon as possible. In anticipation of this candidate, the portfolio is temporarily divided between Jos Baeten and Chris Figee.

In addition to the Executive Board, the three divisions of a.s.r. leven each have their own management team (MT).

Remuneration

Information on the remuneration policy for members of the Executive Board and their individual remunerations can be found in the Remuneration report in the Annual Report for ASR Nederland N.V.

Education and evaluation

A self-evaluation session was held after the results of a 360° feedback questionnaire had been received. This gave the Executive Board feedback from members of the Supervisory Board, senior management, members of the Works Council and each other. The questionnaire specifically focused on leadership themes from 'the story of a.s.r.': dilemmas, dialogue, clear frameworks and actions.

The outcome of the questionnaire was discussed within the Executive Board under the guidance of an expert/consultant representing the supplier of the 360° tooling, to further interpret the results. The overall impression that emerged from this self-assessment was positive. Positive points included the open and interested attitude of the Executive Board, its complementarity on tactical and strategic level and its decisiveness/execution power. Recommendations include openly discussing dilemmas with senior management and providing more feedback on attitudes and behavior.

The performance of the members of the Executive Board was also assessed by the Supervisory Board as part of the scope of the annual assessment process. In this context, interviews are held twice a year with the individual members of the Executive Board (by two Supervisory Board members each time) in which the results of the aforementioned 360-feedback were included.

In 2018, specific sessions were also organised jointly with the Supervisory Board for the benefit of further education. The first session was a follow-up on the explanation of IFRS 17, the new accounting standard for insurance contracts, led by Group Accounting, Reporting & Control. The new regulations will impact the external reporting on insurance contracts in future. The implementation of IFRS 17 within a.s.r. is a major project. The second session focused on increasing digitisation in the insurance industry. A knowledge session was also led by an external expert on governance and board leadership took place at the beginning of the year. During this session, the Supervisory and Executive Boards were given an update on long-term value creation based on the Dutch Corporate Governance Code and discussed this in relation to a.s.r.

Individual Executive Board members attended knowledge sessions on various topics in their capacity as board members and supervisory directorships in other organisations.

B.1.1.4 Supervisory Board

The Supervisory Board has three roles; the supervisory role, the advisory role and the employer's role for the Executive Board. The Supervisory Board supervises the policy pursued by the Executive Board and the general course of affairs at a.s.r. and its group entities. Specific powers are vested in the Supervisory Board, including approving Executive Board decisions.

Composition

In line with the articles of association, the Supervisory Board should consist of at least three members. In 2018, there was one change in the composition of the Supervisory Board. The proposed Board member Sonja Barendregt was appointed as a new member of the Supervisory Board at the AGM on 31 May 2018. The Supervisory Board currently consists of five members: Kick van der Pol (Chairman), Annet Aris, Cor van den Bos, Herman Hintzen and Sonja Barendregt. The composition of the Supervisory Board of ASR Levensverzekering N.V. is the same as that of ASR Nederland N.V.

Education and evaluation

In 2018, three continuing education (CE) sessions were organised for Supervisory Board members, members of the Executive Board and senior managers. The first session was a follow-up to the explanation of IFRS 17, the new accounting standard for insurance contracts, led by Group Accounting, Reporting & Control. The new regulations will impact the external reporting on insurance contracts in the future. The implementation of IFRS 17 within a.s.r. is a major project. The second session focused on increasing digitisation in the insurance industry. Thirdly, a knowledge session led by an external expert on governance and board leadership was held. At this session, the Supervisory and Executive Boards were given an update on long-term value creation in line with the Dutch Corporate Governance Code and discussed this in relation to a.s.r.

Individual members were given updates and presentations on various topics in view of their supervisory directorships at several Dutch and foreign enterprises and institutions.

The Supervisory Board is responsible for assessing the quality of its own performance. It therefore performs an annual self-assessment and discussion of its own performance and that of its committees and members. A self-assessment with external supervision is carried out every three years. The self-assessment for 2018 was carried out with internal guidance. The assessment was based on written and oral input from the Supervisory Board, the Executive Board, the Company Secretary and several senior managers.

- The following aspects were assessed:
- Composition and functioning of the Supervisory Board (strengths and points for improvement);
- Effectiveness of processes (information-gathering and decision-making);
- Advisory role;
- Role as an employer.

The outcome of the assessment was discussed by the members of the Supervisory Board and the Company Secretary. They concluded that interrelationships were good, interaction was sufficient and there was an open dialogue (including in difficult cases). The quality of the Supervisory Board was also seen as good, and must, it was felt, continue to be safeguarded following the forthcoming changes in the composition of the Supervisory Board. Time must then be taken to get to know each other well on a personal level. Attention must also be paid to the design of the relationship with the BEC. It was recommended that certain reports be linked and that more time be devoted to succession management and planning

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B.1.1.5 Governance Codes

Professional oath

On 1 January 2013, the Dutch financial sector introduced a mandatory oath for Executive and Supervisory Board members of financial institutions licensed in the Netherlands. With regard to insurance companies, in addition to the Executive and Supervisory Board members, individuals holding a management position immediately below the Executive Board who are responsible for staff who may have a significant influence on the risk profile of the insurance company, are also required to take the oath, as are certain other employees. This includes individuals who may (independently) significantly influence the risk profile of the undertaking as well as those persons who are or may be involved in the provision of financial services.

Regardless of the above, a.s.r. has decided that all employees and other individuals carrying out activities under its responsibility must take the oath. New employees must take the oath within three months of joining the company.

Decision on disclosure of non-financial information and Decision on disclosure of diversity policy

a.s.r. also wants to be transparent about non-financial information in its Management Report. Since the reporting year 2017, the relevant legal requirements have been tightened up for large companies of public interest. Such organisations, which include a.s.r., are now expected to clarify how they deal with environmental, social and personnel issues, respect for human rights and the fight against corruption and bribery in their business operations and value chain. Large listed companies must also provide insight into their policy on diversity in relation to the Executive and Supervisory Boards. Annex G states of the annual report for ASR Nederland N.V. where the information requirements specified by the new legislation can be found in the annual report.

B.1.2 Related-party transactions

A related party is a person or entity that has significant influence over another entity, or has the ability to affect the financial and operating policies of the other party. Parties related to a.s.r. leven include a.s.r. and its subsidiaries, associates, NLFI and the Dutch State for the period until 13 September 2017, members of the Executive Board, members of the Supervisory Board, close family members of any person referred to above, entities controlled or significantly influenced by any person referred to above and any other affiliated entity.

a.s.r. leven regularly enters into transactions with related parties during the conduct of its business. These transactions mainly involve loans and receivables, allocated costs and premiums received, and are conducted on terms equivalent to those that prevail in arm's length transactions.

Positions and transactions between a.s.r. leven, associates and other related parties

- The table below shows the financial scope of the related party transactions of a.s.r. leven:
- Associates;
- Other related parties (including ASR Nederland N.V. and its subsidiaries).

Financial scope of a.s.r. leven related party transactions				
		2018		2017
	Other ralated parties	Total	Other related parties	Total
Balance sheet items with related parties as at 31 December				
Loans and receivables	360	360	134	134
Other assets	124	124	128	128
Other liabilities	84	84	-	-
Transactions in the income statement for the financial year				
Premium income	14	14	31	31
FV Gains and Losses	-9	-9	17	17

No provisions for impairments have been recognised on the loans and receivables for the years 2018 and 2017.

Main transactions are:

- In December 2018, Aurein, a 100% subsidiary of a.s.r. leven acquired the shares in a shopping centre and parking garage from ASR Vastgoed Projecten B.V. for an amount of € 120 million in exchange for cash based on the fair value of the investment property. a.s.r. leven provided a loan to Aurein to fund the transaction.
- In 2017, a.s.r. leven sold mortgages to ASR Bank N.V. for € 470 million and ASR Hypotheekfonds for € 500 million.
- In March 2017 a.s.r. leven bought the remaining share in ANVM from a.s.r. schade for an amount of € 336 million in investment property and participations in real estate equity funds.

All transactions were conducted at arm's length.

During 2018 a.s.r. leven paid a dividend to ASR Nederland N.V. in the amount of € 386 million (2017: € 395 million).

B.1.3 Remuneration of Supervisory Board and Executive Board

The members of the Executive Board and Supervisory Board of a.s.r. leven are the same members in the Executive Board and Supervisory Board of a.s.r. The amount of compensation paid for the services provided by the Executive Board and the Supervisory Board of a.s.r. was not charged to a.s.r. leven, and is subsequently not accounted for in the result of a.s.r. leven.

The remuneration policy of the Executive and Supervisory Board members is determined in accordance with the current Articles of Association of a.s.r. An overview of these remunerations is described in the consolidated financial statements of a.s.r. group.

B.2 Fit and proper requirements

The policy pursued by a.s.r. concerning fit and proper requirements for persons who effectively run the undertaking and other key functions contributes to a controlled and sound business operations and promotes the stability and integrity of a.s.r. as well as customer confidence.

The fit and proper requirements that are imposed on persons who effectively run the undertaking and other key functions are included in the job profile, which is used as a basis for recruitment. Each year, an assessment is made of the extent to which an employee requires training to perform its duties. In addition, a.s.r. has a program for the continuing education of persons who effectively run the undertaking and other key functions. a.s.r. assesses all prospective employees for their reliability and integrity prior to their appointment.

B.3 Risk management system including the Own Risk and Solvency Assessment Risk Management System

It is of great importance to a.s.r. that risks within all business lines are timely and adequately controlled. In order to do so, a.s.r. has implemented a Risk Management framework based on internationally recognised and accepted standards (such as COSO ERM and ISO 31000:2018 risk management principles and guidelines). Using this framework, material risks that a.s.r. is, or can be, exposed to, are identified, measured, managed, monitored and evaluated. The framework is both applicable to a.s.r. group and the underlying (legal) business entities.

B.3.1 Risk Management Framework

The figure below is the risk management framework as applied by a.s.r. The framework is based on the Enterprise Risk Management (ERM) model by COSO¹.

Risk Management Framework



Risk Management framework

The Risk Management (RM) framework consists of risk strategy (including risk appetite), risk governance, systems and data, risk policies and procedures, risk culture, and risk management process. The RM framework contributes to achieving the strategic objectives as set out by a.s.r.

Risk strategy (incl. risk appetite)

Risk strategy is defined to contain at least the following elements:

- Strategic objectives that are pursued;
- The risk appetite in pursuit of those strategic objectives.

a.s.r.'s risk strategy aims to ensure that decisions are made within the boundaries of the risk appetite, as stipulated annually by the Executive Board and the Supervisory Board (see chapter B.3.1.1 Risk strategy and risk appetite).

Risk governance

Risk governance can be seen as the way in which risks are managed, through a sound risk governance structure and clear tasks and responsibilities, including risk ownership. a.s.r. employs a risk governance framework that entails the tasks and responsibilities of the risk management organisation and the structure of the Risk committees (see chapter B.3.1.2 Risk governance).

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¹ ISO 31000:2018 risk management principles and guidelines.

Systems and data

Systems and data support the risk management process and provide management information to the risk committees and other relevant bodies. Strategic decisions are based on the management information provided. a.s.r. finds it very important to have qualitatively adequate data and systems in place, in order to be able to report and steer correct figures and to apply risk-mitigating measures timely. To ensure this, a.s.r. has designed a policy for data quality in line with Solvency II. Tools, models and systems are implemented to support the risk management process by giving guidance to and insights into the key risk indicators, risk tolerance levels, boundaries and actions, and remediation plans to mitigate risks (see chapter B.3.1.3 Systems and data).

Risk policies and procedures:

Risk policies and procedures at least¹:

- Define the risk categories and the methods to measure the risks;
- Outline how each relevant category, risk area and any potential aggregation of risk is managed;
- Describe the connection with the overall solvency needs assessment as identified in the Own Risk & Solvency Assessment (ORSA), the regulatory capital requirements and the risk tolerances;
- Provide specific risk tolerances and limits within all relevant risk categories in line with the risk appetite statements;
- Describe the frequency and content of regular stress tests and the circumstances that would warrant ad-hoc stress tests.

The classification of risks within a.s.r. is performed in line with, but is not limited to, the Solvency II risks. Each risk category consists of a policy that explicates how risks are identified, measured and controlled within a.s.r. (see chapter B.3.1.4 Risk policies and procedures).

Risk culture

An effective risk culture is one that enables and rewards individuals and groups for taking risks in an informed manner. It is a term describing the values, beliefs, knowledge, attitudes and understanding about risk. All the elements of the RM framework combined make an effective risk culture.

Within a.s.r. risk culture is an important element that emphasises the human side of risk management. The Executive Board has a distinguished role in expressing the appropriate norms and values (tone at the top). a.s.r. employs several measures to increase the risk awareness and, in doing so, the risk culture (see chapter B.3.1.5 Risk culture).

Risk management process

The risk management process contains all activities within the RM processes to structurally 1) identify risks; 2) measure risks; 3) manage risks; 4) monitor and report on risks; and 5) evaluate the risk profile and risk management framework. At a.s.r., the risk management process is used to implement the risk strategy in the steps mentioned. These five steps allow for the risks within the company to be managed effectively (see chapter B.3.1.6 Risk Management process).

B.3.1.1 Risk management strategy and risk appetite

a.s.r.'s risk strategy aims to ensure that decisions are made within the boundaries of the risk appetite, as stipulated annually by the Executive Board and the Supervisory Board.

Risk appetite is defined as the level and type of risk a.s.r. is willing to bear in order to meet its strategic, tactical and operational objectives. The risk appetite is formulated to give direction to the management of the (strategic) risks. The risk appetite contains a number of qualitative and quantitative risk appetite statements and is defined for both financial (FR) and non-financial risks (NFR). The statements highlight the risk preferences and limits of the organisation and are viewed as key elements for the realisation of our strategy. The statements and limits are defined at both group level and at legal entity level and are determined by the Executive Board and approved by the Supervisory Board. The statements are evaluated regularly to maintain alignment with the strategy.

¹ EIOPA-BoS-253-Guidelines_on_System_of_Governance_EN.pdf.

Risk appetite Statem	ent ASR Nederland N.V. 2018
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1	ASR Nederland N.V. places long-term value creation at the forefront of its (strategic) operations. ASR Nederland N.V. is a socially responsible organisation which ensures that all stakeholders' interests are met in a balanced and sustainable way.	NFR
2	ASR Nederland N.V. ensures that operational risks are controlled efficiently and effectively: a. ASR Nederland N.V. has efficient and effective business processes; b. ASR Nederland N.V. has reliable financial reports; c. ASR Nederland N.V. has controlled internal and external outsourcing; d. ASR Nederland N.V. has IT that processes information reliably.	NFR
3	ASR Nederland N.V. complies with current laws, regulations and ethical (and inherent internal) norms. ASR Nederland N.V. meets the (reasonable) expectations of stakeholders and offers solid and reliable products which are cost-efficient, useful, safe and comprehensible to customers, intermediaries and ASR's internal organisation. Conducting honest business ensures that ASR's reputation is protected.	NFR
4	ASR Nederland N.V. has a minimum SCR ratio of 120%.	FR
5	ASR Nederland N.V. remains within the bandwidth of periodically reassessed market risk budgets.	FR
6	ASR Nederland N.V. has at least a single A rating and hereto it adheres to the AA level criteria under the S&P Capital Model. ASR Nederland N.V. assesses the amount of dividend payments against the current and expected future solvency ratio and economic outlook. Dividend payments are in line with the conditions laid down in the capital and dividend policy of ASR Nederland N.V.	FR
7	ASR Nederland N.V. has a maximum financial leverage ratio of 40% Financial leverage ratio = Debt / (Debt + Equity).	FR
8	ASR Nederland N.V. has a maximum double leverage ratio of 135%. Double leverage ratio = Total value of associates / (equity attributable to shareholders + hybrids and subordinated liabilities).	FR
9	ASR Nederland N.V. has a minimum interest coverage ratio of between 4 and 8. Interest coverage ratio = EBIT operational / interest expense.	FR
10	ASR Nederland N.V. is capable of releasing liquidities worth up to € 1 billion over a 1-month period following stress and remains capable of meeting its collateral requirements in the event of a 3% interest increase.	FR
11	ASR Nederland N.V. generates a robust and high-quality operational ROE, i.e. pursues an overall ROE > 10% and seeks an ROE > 8% for individual investment decisions.	FR
12	ASR Nederland N.V. has a maximum combined ratio of 99%.	FR

Risk strategy aims to ensure that management decisions lead to a risk profile that remains within the risk limits. The risk strategy entails all processes to identifying, assessing and managing risks and opportunities. The SRA (Strategic Risk Analysis) is a method for identifying, assessing and managing strategic risks. Through a combined top-down and bottom-up SRA (Strategic Risk Analysis) approach, the most important strategic risks are identified. For each of the strategic risks an estimation of the likelihood and impact is made to prioritise the risks. The main strategic risks are translated into 'risk priorities' (including emerging risks) at group level and are monitored throughout the year in the a.s.r. Risk Committee. Output from the strategic risk analysis, combined with the risk appetite statements, provides insight into the risk profile of a.s.r. and underlying legal entities. The risk profile is monitored in the relevant risk committees.

B.3.1.2 Risk governance

a.s.r.'s risk governance can be described by:

- Risk ownership;
- The implemented three lines of defence model and associated (clear delimitation of) tasks and responsibilities of key function holders; and
- The risk committee structure to ensure adequate strategic decision making.

Risk ownership

The Executive Board has the final responsibility for risk exposures and management within the organisation. Part of the responsibilities have been delegated to persons that manage the divisions where the actual risk-taking takes place. Risk owners are accountable for one or more risk exposures that are inextricably linked to the department or product line they are responsible for. Through the risk committee structure, risk owners provide accountability for the risk exposures.

Three lines of defence

The risk governance structure is based on the 'three lines of defence' model. The 'three lines of defence' model consists of three defence lines with different responsibilities with respect to the ownership of controlling risks. The model below provides insight in the organisation of the three lines of defence within a.s.r.

Three lines of defence model

Three lines of defence				
First line of defence	Second line of defence	Third line of defence		
 Executive Board Management teams of the business lines and their employees Finance & risk decentral 	 Group Risk Management department Risk management function Actuarial function Integrity department Compliance function 	 Audit department Internal audit function 		
Ownership and implementation	Policies and monitoring implementation by 1st line	Independent assessment of 1st and 2nd lines		
 Responsible for the identification and the risks in the daily business Has the day-to-day responsibility for operations (sales, pricing, underwriting, claims handling, etc.) and is responsible for implementing risk frameworks and policies. 	 Challenges the 1st line and supports the 1st line to achieve their business objectives in accordance with the risk appetite Has sufficient countervailing power to prevent risk concentrations and other forms of excessive risk taking Responsible for developing risk policies and monitoring the compliance with these policies 	• Responsible for providing dedicated assurance services and oversees and assesses the functioning and the effectiveness of the first two lines of defence		

Positioning of key functions

Within the risk governance, the key functions (compliance, risk, actuarial and audit) are organised in accordance with Solvency II regulation and play an important role as countervailing power of management in the decision-making process. The four key functions are independently positioned within a.s.r. In all the risk committees one or more key functions participate. None of the functions has voting rights in the committees, in order to remain fully independent as countervailing power. All functions have direct communication lines with the Executive Board and can escalate to the chairman of the Audit & Risk Committee of the Supervisory Board. Furthermore, the key functions have regular meetings with the supervisors of the Dutch Central Bank and/or The Dutch Authority for the Financial Markets (AFM).

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Group Risk Management

Group Risk Management is responsible for the execution of the risk management function and the actuarial function. The department is led by the CRO. Group Risk Management consists of the following sub-departments:

- Enterprise Risk Management;
- Financial Risk Management (including Actuarial Function).

Enterprise Risk Management

Enterprise Risk Management is responsible for second-line operational (including IT) risk management and the enhancement of the risk awareness for a.s.r. and its subsidiaries. The responsibilities with regards to enterprise risk management include the development of risk policies, the annual review and update of the risk strategy (risk appetite), the coordination of the SRA process leading to the risk priorities and ORSA scenarios and the monitoring of the non-financial strategic risk profile. For the management of operational risks, a.s.r. has a solid Risk-Control framework in place that contributes to its long-term solidity. The RMF monitors and reviews the non-financial operational risk profile. The quality of the framework is continuously enhanced by the analysis of operational incidents, periodic assessments and monitoring by the RMF. Enterprise Risk Management actively promotes risk awareness at all levels to contribute to the vision of staying a socially relevant insurer.

Financial Risk Management

Financial Risk Management (FRM) is responsible for the second line financial risk management and supports both the Actuarial Function and Risk Management Function. An important task of FRM is to be the countervailing power to the Executive Board and management in managing financial risks for a.s.r. and its subsidiaries. FRM assesses the accuracy and reliability of the market risk, counterparty risk, insurance risk and liquidity risk, risk margin and best estimate liability. Other responsibilities are model validation and policies on valuation and risk. FRM is also responsible for the actuarial function. As part of the actuarial function, FRM reviews the technical provisions, monitors methodologies, assumptions and models used in these calculations, and assesses the adequacy and quality of data used in the calculations. Furthermore, the Actuarial Function expresses an opinion on the underwriting policy and determines if risks related to the profitability of new products are sufficiently addressed in the product development process. The actuarial function also expresses an opinion on the adequacy of reinsurance arrangements.

Compliance

Compliance is responsible for the execution of the compliance function. An important task of Compliance is to be the countervailing power to the Executive Board and management in managing compliance risks for a.s.r. and its subsidiaries. The mission of the compliance function is to enhance and ensure a controlled and sound business operations where impeccable, professional conduct is self-evident.

As second line of defence, Compliance encourages the organisation to comply with relevant rules and regulations, ethical standards and the internal standards derived from them ('rules') by providing advice and devising policy. Compliance supports the first line in the identification of compliance risks and assesses the effectiveness of risk management on which Compliance reports to the relevant risk committees. In doing so, Compliance uses a compliance risk and monitoring framework. In line with risk management, Compliance also creates further awareness in order to promote a culture of integrity. Compliance coordinates contacts with regulators in order to maintain an effective relationship and keeps oversight of the current topics.

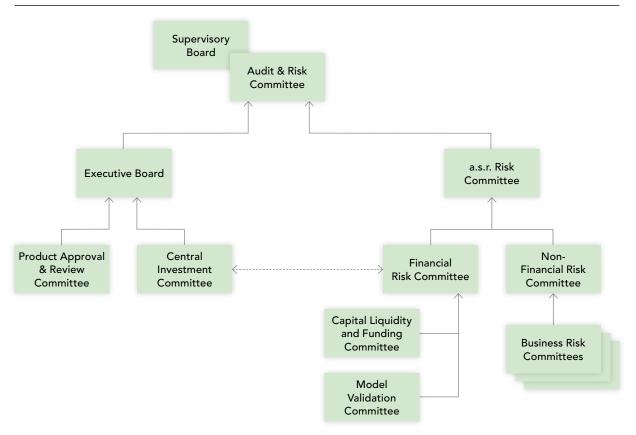
Audit

The Audit department, the third line of defence, provides an independent opinion on governance, risk and management processes, with the goal of supporting the Executive Board and other management of a.s.r. in achieving the corporate objectives. To that end, Audit evaluates the effectiveness of governance, risk and management processes, and provides pragmatic advice that can be implemented to further optimise these processes. In addition, senior management can engage Audit for specific advisory projects.

Risk committee structure

a.s.r. has established a structure of risk committees (model 2018) with the objective to monitor the risk profile for a.s.r. group, its legal entities and its business lines in order to ensure that it remains within the risk appetite and the underlying risk tolerances and risk limits. When triggers are hit or likely to be hit, risk committees make decisions regarding measures to be taken, being risk-mitigating measures or measures regarding governance, such as the frequency of their meetings. For each of the risk committees a statute is drawn up in which the tasks, composition and responsibilities of the committee are defined.

Risk committee structure



Audit & Risk Committee

The Audit & Risk Committee was established by the Supervisory Board to gain support in the following matters:

- Assessment of the risk appetite proposal based on the financial and non-financial risk reports, among other documents;
- Assessment of the annual report, including the financial statements of ASR Nederland N.V.;
- The relationship with the independent external auditor, including the assessment of the qualities and independence of the independent external auditor and the proposal by the Supervisory Board to the AGM to appoint the independent external auditor;
- The performance of the audit function, compliance function, the actuarial function and the risk management function;
- Compliance with rules and regulations; and
- The financial position.

The Audit & Risk Committee has three members of the RvC, one of whom acts as the chairman.

a.s.r. Risk Committee

The a.s.r. Risk Committee (a.s.r. RC) monitors a.s.r.'s overall risk profile on a quarterly basis. At least annually, the a.s.r. RC determines the risk appetite statements, limits and targets for a.s.r. This relates to the overall a.s.r. risk appetite and the subdivision of risk appetite by financial and non-financial risks. The risk appetite is then submitted to the a.s.r. Audit & Risk Committee, which advises the Supervisory Board on the approval of the risk appetite. The a.s.r. RC also monitors the progress made in managing risks included in the Risk Priorities of the Executive Board.

All members of the Executive Board participate in the a.s.r. RC, which is chaired by the CEO. The involvement of the Executive Board ensures that risk decisions are being addressed at the appropriate level within the organisation. In addition to the Executive Board, the CRO, Director of Audit and Director of Integrity are members of the Committee.

Non-Financial Risk Committee

The Non-Financial Risk Committee (NFRC) discusses, advises and decides upon non-financial risk policies. The most relevant risk policies are approved by the a.s.r. RC. The NFRC monitors that non-financial risks are managed adequately and monitors that the risk profile stays within the agreed risk limits. If the risk profile exceeds the limits, the NFRC takes mitigating actions. The NFRC reports to the a.s.r. RC. The NFRC was chaired by the COO Non-Life (member of the Executive Board).

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Financial Risk Committee

The Financial Risk Committee (FRC) discusses and decides upon financial risk policies. The most relevant financial risk policies are approved by the a.s.r. RC. The FRC monitors and controls financial risks (market, insurance (life and non-life) and counterparty default risk). The FRC also monitors whether the risk profile stays within the risk limits. If the risk profile exceeds these limits, the FRC takes mitigating actions. The FRC reports to the a.s.r. Risk Committee. The Chairman of the FRC is the CFO.

Capital, Liquidity and Funding Committee

The Capital, Liquidity and Funding Committee (CLFC) is a subcommittee of the FRC. As such, the CLFC prepares and assesses the technical analysis of capital, liquidity and funding positions, rating policy, rating model reporting, and treasury activities. The Chairman of the CLFC is the Director of Group Asset Management.

Model Validation Committee

The model validation committee (MVC) is a subcommittee of the FRC and is responsible for the execution and update of the model validation policy and the approval of validation of existing or newly developed models. The MVC receives all required information for the validation of models (e.g. model documentation and validation reports) prepared by the validation board (MVB) that assures the quality of the validation process. The chairman of the MVC is the CRO.

Business Risk Committees

The business lines manage and control their risk profile through the Business Risk Committees (BRC). The BRC's monitor that the risk profile of the business lines stays within the risk appetite, limits and targets, as formulated by the Executive Board. The BRC reports to the FRC and the NFRC. The Chairman of the BRC is the Managing Director of the business line.

Central Investment Committee

In addition to the risk committee structure, the Central Investment Committee (CIC) monitors tactical decisions and the execution of the investment policy. It takes investment decisions within the boundaries of the strategic asset allocation as agreed upon in the FRC. The CIC bears particular responsibility for investment decisions exceeding the mandate of the investment. The CIC is chaired by the COO Life (member of the Executive Board).

Product Approval and Review Process Board

The Product Approval & Review Process Board (PARP Board) is responsible for the final decision-making process around the introduction of new products and adjustments in existing products. The managing Director of the business line Health is appointed as chairman. The committee evaluates if potential risks in newly developed products are sufficiently addressed. New products need to be developed in such a way that they are cost efficient, reliable, useful and secure. New products also need to have a strategic fit with a.s.r.'s mission to be a solid and trustful insurer. In addition, the risks of existing products are evaluated, as requested by the product approval and review process as a result of product reviews.

B.3.1.3 Systems and data

GRC tooling is implemented to support the risk management process by giving guidance and insight into the key risk indicators, risk tolerance levels, boundaries and actions and remediation plans to mitigate risks. The availability, adequacy and quality of data and IT systems is important in order to ensure that correct figures are reported and risk mitigating measures can be taken in time. It is important to establish under which conditions the management information that is submitted to the risk committees has been prepared and which quality safeguards were applied in the process of creating this information. This allows the risk committees to ascertain whether the information is sufficient to base further decisions upon.

a.s.r. has a Data Governance and Quality policy in place to support the availability of correct management information. This policy is evaluated on an annual basis and revised at least every three years to keep the standards in line with the latest developments on information management. The quality of the information is reviewed based on the following aspects, based on Solvency II:

- Completeness (including documentation of accuracy of results);
- Adequacy;
- Reliability;
- Timeliness.

The preparatory body or department checks the assumptions made and the plausibility of the results, and ensures coordination with relevant parties. When a preparatory body has established that the information is reliable and complete, it approves and formally submits the document(s) to a risk committee.

The information involved tends to be sensitive. To prevent unauthorised persons from accessing it, it is disseminated using a secure channel or protected files. a.s.r.'s information security policy contains guidelines in this respect.

a.s.r.'s information security policy is based on ISO 27002 'Code of practice for information security management'. This Code describes best practices for the implementation of information security.

The aim of the information security policy is to take measures to ensure that the requirements regarding availability, reliability and integer and confidential use of systems and data are met.

- Information availability refers to the degree to which the information is at hand as soon as the organisation needs it, meaning, for instance, that the information should be retrievable on demand and that it can be consulted and used at the right time;
- The integrity, i.e. reliability, of information is the degree to which it is up-to-date, complete and error-free;
- 'Confidential use' refers to the degree to which the information is available to authorised persons only and the extent to which it is not available to unauthorised persons.

There are technical solutions for accomplishing this, by enforcing a layered approach (defence-in-depth) of technical measures to avoid unauthorised persons (i.e. hackers) to compromise a.s.r. corporate data and systems. In this perspective, one may think of methods of logical access management, intrusion detection techniques, in combination with firewalls are aimed at preventing hackers and other unauthorised persons from accessing information stored on a.s.r. systems. Nevertheless, confidential information can also have been committed to paper. In addition to technical measures there are physical measures and measures that helps the right awareness of personnel as part of the information security environment.

When user defined models (e.g. spreadsheets) are used for supporting the RM Framework, the 'a.s.r. Standard for End user computing'- in addition of the general security policy - defines and describes best practices in order to guard the reliability and confidentiality of these tools and models. a.s.r. recognises the importance of sound data quality and information management systems. End 2018 a.s.r. finished the project to further enhance the measurement and reporting on data quality for the purposes of financial reporting.

The management of IT and data risks of the implemented tools, models and systems (including data) is part of the Operational IT risk management.

B.3.1.4 Risk policies and procedures

a.s.r. has established guidelines, including policies that cover all main risk categories (market, counterparty default, liquidity, underwriting, strategic and operational). These policies address the accountabilities and responsibilities regarding management of the different risk types. Furthermore, the methodology for risk measurement is included in the policies. The content of the policies is aligned to create a consistent and complete set. The risk policy landscape is maintained by Group Risk Management and Compliance. These departments also monitor the proper implementation of the policies in the business. New risk policies or updates of existing risk policies are approved by the risk committees as mentioned previously.

B.3.1.5 Risk culture

Risk awareness is a vital component of building a sound risk culture within a.s.r. that emphasises the human aspect in the management of risks. In addition to gaining sufficient knowledge, skills, ca pabilities and experience in risk management, it is essential that an organisation enables objective and transparent risk reporting in order to manage them more effectively.

The Executive Board clearly recognises the importance of risk management and is therefore represented in all of the major group level risk committees. Risk Management is involved in the strategic decision-making process, where the company's risk appetite is always considered. The awareness of risks during decision-making is continually addressed when making business decisions, for example by discussing and reviewing risk scenarios and the positive and/or negative impact of risks before finalizing decisions.

It is very important that this risk awareness trickles down to all parts of the organisation, and therefore management actively encourages personnel to be aware of risks during their tasks and projects, in order to avoid risks or mitigate them when required. The execution of risk analyses is embedded in daily business in, for example, projects, product design and outsourcing.

In doing so, a.s.r. aims to create a solid risk culture in which ethical values, desired behaviours and understanding of risk in the entity are fully embedded. Integrity is of the utmost importance at a.s.r.: this is translated into a code of conduct and strict application policies for new and existing personnel, such as taking an oath or promise when entering the company, and the 'fit and proper' aspect of the Solvency II regulation, ensuring that a.s.r. is overseen and managed in a professional manner.

Furthermore, a.s.r. believes it is important that a culture is created in which risks can be discussed openly and where risks are not merely perceived to be negative and highlight that risks can also present a.s.r. with opportunities. Risk Management (both centralised and decentralised) is positioned as such, that it can communicate and report on risks independently and transparently, which also contributes to creating a proper risk culture.

B.3.1.6 Risk management process

The risk management process typically comprises of five important steps: 1) identifying; 2) measuring; 3) managing; 4) monitoring and reporting; and 5) evaluating . a.s.r. has defined a procedure for performing risk analyses and standards for specific assessments. The five different steps are explained in this chapter.

Identifying

Management should endeavour to identify all possible risks that may impact the strategic objectives of a.s.r., ranging from the larger and/or more significant risks posed on the overall business, down to the smaller risks associated with individual projects or smaller business lines. Risk identification comprises of the process of identifying and describing risk sources, events, and the causes and effects of those events.

Measuring

After risks have been identified, quantitative or qualitative assessments of these risks take place to estimate the likelihood and impact associated with them. Methods applicable to the assessment of risks are:

- Sensitivity analysis;
- Stress testing;
- Scenario analysis;
- Expert judgments (regarding likelihood and impact); and
- Portfolio analysis.

Managing

Typically, there are five strategies to managing risk:

- Accept: risk acceptance means accepting that a risk might have consequences, without taking any further mitigating measures;
- Avoid: risk avoidance is the elimination of activities that cause the risk;
- Transfer: risk transference is transferring the impact of the risk to a third party;
- Mitigate: risk mitigation involves the mitigation of the risk likelihood and/or impact;
- Exploit: risk exploitation revolves around the maximisation of the risk likelihood and/or increasing the impact if the risk does happen.

Risk management strategies are chosen in a way that ensures that a.s.r. remains within the risk appetite tolerance levels and limits.

Monitoring and reporting

The risk identification process is not a continuous exercise. Therefore, risk monitoring and reporting are required to capture changes in environments and conditions. This also means that risk management strategies could, or perhaps should, be adapted in accordance with risk appetite tolerance levels and limits.

Evaluating

The evaluation step is twofold. On the one hand, evaluation means risk exposures are evaluated against risk appetite tolerance levels and limits, taking (the effectiveness of) existing mitigation measures into account. The outcome of the evaluation could lead to a decision regarding further mitigating measures or changes in risk management strategies. On the other hand, the risk management framework (including the risk management processes) is evaluated by the risk management function, in order to continuously improve the effectiveness of the risk management framework as a whole.

B.3.2 α.s.r.'s risk categories

a.s.r. is exposed to a variety of risks. There are six main risk categories that a.s.r. recognizes, as described below.

Insurance risk

Insurance risk is the risk that premium and/or investment income or outstanding reserves will not be sufficient to cover current or future payment obligations, due to the application of inaccurate technical or other assumptions and principles when developing and pricing products. a.s.r. leven recognizes the following insurance risk:

• Life insurance risk.

Market risk

The risk of changes in values caused by market prices or volatility of market prices differing from their expected values. The following types of market risk are distinguished:

- Interest rate risk;
- Equity risk;
- Property risk;
- Spread risk;
- Currency risk;
- Concentration risk/market concentration risk.

Counterparty default risk

Counterparty default risk is the risk of losses due to the unexpected failure to pay or credit rating downgrade of counterparties and debtors. Counterparty default risk exists in respect of the following counterparties:

- Reinsurers;
- Consumers;
- Intermediaries;
- Counterparties that offer cash facilities;
- Counterparties with which derivatives contracts have been concluded.

Liquidity risk

Liquidity risk is the risk that a.s.r. is not able to meet its financial obligations to policyholders and other creditors when they become due and payable, at a reasonable cost and in a timely manner.

Operational risk

Operational risk is the risk of losses caused by weak or failing internal procedures, weaknesses in the action taken by personnel, weaknesses in systems or because of external events. The following subcategories of operational risk are used:

- Compliance;
- Business process;
- Information technology;
- Outsourcing;
- Financial reporting.

Strategic risk

Strategic risk is the risk of a.s.r. or its business lines failing to achieve the objectives due to incorrect decision-making, incorrect implementation and/or an inadequate response to changes in the environment. Such changes may arise in the following areas:

- Climate;
- Demographics;
- Competitive conditions;
- Technology;
- Macroeconomic conditions;
- Laws and regulations and ethical standards;
- Stakeholders;
- Group structure (for product lines only).

Strategic risk may arise due to a mismatch between two or more of the following components: the objectives (resulting from the strategy), the resources used to achieve the objectives, the quality of implementation, the economic climate and/ or the market in which a.s.r. and/or its business lines operate.

B.4 Internal control system

Within a.s.r., internal control is defined as the processes, affected by the board of directors, senior management, and other personnel within the organisation, implemented to obtain a reasonable level of certainty with regard to achieving the following objectives:

- High-level goals, aligned with and supporting the organisation's mission;
- Effective and efficient use of resources;
- Reliability of operational and financial reporting
- Compliance with applicable laws regulations and ethical standards;
- Safeguarding of company assets.

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B.4.1 Strategic and operational risk management

The system of internal control includes the management of risks at different levels in the organisation, both operational and strategic. Internal control at an operational level centres around identifying and managing risks within the critical processes that pose a threat to the achievement of the business line's objectives. The use of controls helps to mitigate or even completely eliminate identified risks. This increases the business line's chances of achieving its objectives and demonstrates that it is in control. Business lines report on the effectiveness of their controls on a quarterly basis. The effectivity of controls is important input for the sign off that each business line provides on the financial figures.

Through a combined top-down and bottom-up SRA (Strategic Risk Analysis) approach, the most important strategic risks are identified. After the analysis a list of risk priorities is established and risk management actions are assigned. The progress of these actions is monitored in the a.s.r. Risk Committee.

B.4.1.1 Strategic risk management

Strategic risk management aims to identify and manage the most significant risks that may impact a.s.r. leven's strategic objectives. Subsequently, the aim is to identify and analyse the risk profile as a whole, including risk interdependencies. The ORSA process is designed to identify, measure, manage and evaluate those risks that are of strategic importance to a.s.r. leven:

Identifying

Through the ORSA process, identification of risks is structurally organised through the combined top-down and bottom-up SRA approach. The SRA outcomes are jointly translated into risk scenarios and 'risk priorities', in which the most significant risks for a.s.r. are represented.

Measuring

Through the ORSA process, the likelihood and impact of the identified risks are assessed, taking into account (the effectiveness of) risk mitigating measures and planned improvement actions. Information from other processes is used to gain additional insights into the likelihood and impact. One single risk scenario takes multiple risks into account. In this manner, the risk scenarios provide (further) insights into risk interdependencies.

Managing

As part of the SRA processes, the effectiveness of risk mitigating measures and planned measures of improvement is assessed. This means risk management strategies are discussed, resulting in refined risk management strategies.

Monitoring and reporting

The output of the ORSA process is translated into day-to-day risk management and monitoring and reporting, both at group level and product line levels. At group level, the risk priorities are discussed on a quarterly basis in the a.s.r. Risk Committee. At the level of the product lines, risks are discussed in the Business Risk Committees.

Evaluating

Insights regarding likelihood and impact are evaluated against solvency targets. Based on this evaluation, conclusions are formulated regarding the adequacy of solvency objectives at group and individual legal entity level.

B.4.1.2 Operational risk management

Operational Risk Management (ORM) involves the management of all possible risks that may influence the achievement of the business goals and that can cause financial or reputational damage. ORM includes the identification, analysis, prioritisation and management of these risks in line with the risk appetite. The policy on ORM is drafted and periodically evaluated under the coordination of Enterprise Risk Management. The policy is implemented in the decentralised business entities under the responsibility of the management boards. A variety of risks is covered by ORM policy: IT risk, outsourcing, data quality, underwriting etc.

Identifying

With the operational targets as a starting point, each business entity performs risk assessments to identify events that could influence these targets. In each business entity the business risk manager facilitates the periodic identification of the key operational risks. All business processes are taken into account to identify the risks. All identified risks are prioritised and recorded in a risk-control framework.

The risk policies prescribe specific risk analyses to be performed to identify and analyse the risks. For important IT systems, SPRINT (Simplified Process for Risk Identification) analyses have to be performed and for large outsourcing projects a specific risk analysis is required.

Measuring

All risks in the risk-control frameworks are assessed on likelihood of defaults and impact. Where applicable, the variables are quantified, but often judgments of subject matter experts are required. Based on the estimation of the variables, each risk is labelled with a specific level of concern (1 to 4). Risks with a level of concern 3 or 4 are considered 'key'.

Managing

For each risk, identified controls are implemented into the processes to keep the level of risk within the agreed risk appetite (level of concern 1 or 2). In general, risks can be accepted, mitigated, avoided or transferred. A large range of options is available to mitigate operational risks, depending on the type. For each control an estimation is made of the net risk, after implementing the control(s).

Monitoring and reporting

The effectiveness of operational risk management is periodically monitored by the business risk manager at each business line or legal entity. For each key control in the risk-control framework a testing calendar is established, based on accounting standards. Each control is tested regularly and the outcomes of the effectiveness of the management of key risks are reported to the management board. Outcomes are also reported to the NFRC and a.s.r. RC.

Evaluating

Periodically, yet at least annually, the risk-control frameworks and ORM policies are evaluated to see if revisions are necessary. The risk management function also challenges the business lines and legal entities regarding their risk-control frameworks.

Operational incidents

Large operational incidents are reported to Group Risk Management, in accordance with the operational risk policy. The causes of losses are evaluated in order to learn from these experiences. An overview of the largest operational incidents and the level of operational losses is reported to the NFRC. Actions are defined and implemented to avoid repetition of operational losses.

ICT

Through IT risk management, a.s.r. devotes attention to the efficiency, effectiveness and integrity of ICT, including End User Computing applications. The logical access control for key applications used in the financial reporting process remains a high priority in order to enhance the integrity of applications of data. The logical access control procedures also prevent fraud by improving segregation of duties and by conducting regular checks of actual access levels within the applications. Proper understanding of information, security and cyber risks is essential, reason for which continuous actions are carried out to create awareness among employees and business lines.

Business Continuity Management

Operational management can be disrupted significantly by unforeseen circumstances or calamities which could ultimately disrupt the execution of critical and operational processes. Business Continuity Management enables a.s.r. to continue its daily business uninterruptedly and to react quickly and effectively during such situations.

Critical processes and activities and the tools necessary to use for these processes are identified during the Business Impact Analysis. This includes the resources required to establish similar activities at a remote location. The factors that can threaten the availability of those tools necessary for the critical processes are identified in the Threat Analysis.

a.s.r. considers something a crisis when one or more business lines are (in danger of being) disrupted in the operational management, due to a calamity, or when there is a reputational threat. In order to reduce the impact of the crisis, to stabilise the crisis, and to be able to react timely, efficiently and effectively, a.s.r. has assigned a crisis organisation.

Each business line has their own crisis team led by the director of the management team. The continuity of activities and the recovery systems supporting critical activities are regularly tested and crisis teams are trained annually. The objective of the training is to give the teams insights into how they function during emergencies and to help them perform their duties more effectively during such situations. The training also sets out to clarify the roles, duties and responsibilities of the crisis teams. One important training scenario used is a scenario that includes cyber threats.

Recovery Planning

a.s.r.'s Recovery Plan helps to be prepared and have the capacity to act in various forms of extreme financial stress. The Recovery Plan describes and quantifies the measures that can be applied to live through a crisis situation. These measures are tested in the scenario analysis, in which the effects of each recovery measure on a.s.r.'s financial position (solvency and liquidity) are quantified. The required preparations for implementing the measures, their implementation time and ASR Levensverzekeringen N.V. 2018 Solvency and Financial Condition Report | B System of governance 39

effectiveness, potential obstacles and operational effects are also assessed. The main purpose of the Recovery Plan is to increase the chances of successful early intervention in the event of a financial crisis situation and to further guarantee that the interest of policyholders and other stakeholders are protected.

Reasonable assurance and model validation

a.s.r. aims to obtain reasonable assurance regarding the adequacy and accuracy of the outcomes of models that are used to provide best estimate values and solvency capital requirements. To this end, multiple instruments are applied, including model validation. Materiality is determined by means of an assessment of impact and complexity. Impact and complexity is expressed in terms of High (H), Medium (M), or Low (L).

In the pursuit of reasonable assurance, model risk is mitigated and unpleasant surprises are avoided, against acceptable costs.

B.4.2 Compliance function

This paragraph contains a description of group policy, which is applicable for a.s.r. Leven. The mission of the compliance function is to enhance and ensure a controlled and sound business operation in which impeccable, professional conduct is self-evident.

Positioning and structure of the compliance function

The compliance function is a centralised function which is headed by the a.s.r. Compliance Officer for both a.s.r. and the supervised entities. The compliance function, the second line of defence, is considered a key function in line with the Solvency II regulation. The CEO bears ultimate responsibility for the compliance function and the a.s.r. Compliance Officer has direct access to him. The a.s.r. Compliance Officer also has an escalation line to the Chairman of the a.s.r. Audit & Risk Committee and/or the Chairman of the Supervisory Board in order to safeguard the independent position of the compliance function and enables it to operate autonomously. The a.s.r. Compliance Officer is entitled to upscale critical compliance matters to the highest organisational level or to the Supervisory Board.

Responsibilities and duties

The compliance function, as part of the second line of defence, is responsible for:

- Encouraging compliance with relevant rules and regulations, ethical standards and the internal standards derived from them ('rules') by providing advice and formulating policies;
- Monitoring compliance with rules;
- Monitoring the management of compliance risks by developing adequate compliance risk management, including
 monitoring and, where necessary, making arrangements relating to proposed management actions;
- Creating awareness of the need to comply with rules and of social and ethical issues, in which context ethical behaviour within a.s.r. is self-evident;
- Coordinating contacts with regulators in order to maintain effective and transparent relationships with them.

Annual Compliance plan

Developments in rules and the management of high compliance risks and action plans provide the basis for the annual compliance plans and the compliance monitoring activities. a.s.r. continuously monitors changing legislation and regulations and assesses the impact and corresponding actions to be taken. In 2018, a.s.r. paid specific attention to:

- General Data Protection Regulation (GDPR): The Privacy Officer falls under Compliance and was a member of the GDPR central project group. Compliance advises on privacy issues and monitors compliance with relevant legislation and regulations as a second line of defence;
- Insurance Distribution Directive (IDD): Compliance was part of both centralised and decentralised projects to implement IDD as from 1 October 2018.

Based on the annual plan, Compliance monitors every year the compliancy of rules. In 2018, Compliance conducted a.s.r.-wide monitoring surveys on compliance with the sanction regulations and CDD policy, privacy and the quality of customer contacts and underlying procedures. The findings have been reported to and discussed with responsible management, the a.s.r. Risk Committee and the Audit & Risk Committee. Actions have been taken with regard to unify processes and training of employees.

Reporting

The compliance function reports on compliance matters and progress made on the relevant actions at Group level, supervised entity level and division level on a quarterly basis. The quarterly report at division level is discussed with the responsible management and scheduled for discussion by the Business Risk Committee.

The quarterly report at Group level and supervised entity level is presented to and discussed with the a.s.r. Risk Committee and submitted to the Audit & Risk Committee. The report is shared and discussed with the DNB, the AFM and the external auditor.

B.5 Internal audit function

This paragraph contains a description of group policy, which is applicable for a.s.r. Leven. The Audit Department provides a professional and independent assessment of the governance, risk management and internal control processes with the aim of aiding management in achieving the company's objectives. This statement of duties has been set down in the Audit Charter for ASR Nederland N.V. and its subsidiaries. The Audit Department reports its findings to the Executive Board of ASR Nederland N.V., to the managing board of ASR Schadeverzekering N.V. and, by means of the quarterly management report, to the a.s.r. Audit and Risk Committee.

The Audit Department has an independent position within a.s.r., as set down in the Audit Charter. The supervisory board of ASR Nederland N.V. guarantees Audit and its employees an independent, impartial and autonomous position in order to execute the mission of Audit. The head of the Audit Department reports to the chairman of the Executive Board of ASR Nederland N.V. and has a reporting line to the chairman of the a.s.r. Audit and Risk Committee. The Chief Audit Executive is appointed by the Supervisory Board of ASR Nederland N.V. In order to maintain the independence and impartiality of the internal audit function, the audit function is not influenced by the Executive Board of ASR Nederland N.V. and the managing board of a.s.r. leven in the execution of an audit and the evaluation of and reporting on audit outcomes. The audit function is not subjected to any inappropriate influence from any other function, including the key functions.

The persons carrying out the internal audit function do not assume any responsibility for any other (key) function. The Audit Department has periodic consultations with Dutch Central Bank to discuss the risk assessment, findings and audit plan. The Audit Department's risk assessment is performed in close consultation with the independent external auditor. The department also takes the initiative to organise a 'tripartite consultation' with Dutch Central Bank and the independent external auditor at least once a year. In 2018, two tripartite consultations were held.

The Audit Department sets up a multi-year audit plan based upon an extensive risk assessment. The audit plan is approved by the Audit & Risk Committee. At least once a year, the audit plan is evaluated and any changes to the plan must be approved by the Audit & Risk Committee.

All auditors took the oath for the financial sector and are subject to disciplinary proceedings. All auditors have committed themselves to the applicable code of conduct of a.s.r., follow the Code of Ethics of the Institute of Internal Auditors (IIA) and comply with the specific professional rules of the Netherlands Institute of Chartered Accountants (NBA) and the professional association for IT-auditors in the Netherlands (NOREA).

Audit applies the standards of the IIA, NBA and NOREA for the profession of internal auditing. Each year, Audit performs a self-assessment and an internal quality review and reports the results to the chairman of the board and to the members of the Audit and Risk Committee. In accordance with the standards of the IIA, an external quality review is performed every five years. During the last review in 2016, Audit was approved by the IIA and received the Institute's quality certificate.

B.6 Actuarial function

This paragraph contains a description of group policy, which is applicable for a.s.r. Leven. The Actuarial Function (AF) is one of four key functions in a.s.r.'s system of governance.

The main tasks and responsibilities of the AF are to:

- Coordinate the calculation of technical provisions;
- Ensure the appropriateness of the methodologies, underlying models and the assumptions made in the calculation of technical provisions;
- Assess the sufficiency and quality of the data used in the calculation of technical provisions;
- Compare best estimates against experience;
- Inform the administrative, management or supervisory body of the reliability and adequacy of the calculation of technical provisions;
- Express an opinion on the overall underwriting policy;
- Express an opinion on the adequacy of reinsurance arrangements; and
- Contribute to the effective implementation of the risk management system.

The AF is part of the second line of defense and operates independently of both the first line (responsible for determining the technical provisions, reinsurance and underwriting), as well as the other three key functions (internal audit, risk management and compliance).

The AF for both ASR Nederland N.V. and the insurance legal entities is operationally part of a.s.r. Group Risk Management. The AF is performed by persons who have profound knowledge of actuarial and financial mathematics, proportionate to the nature, scale and complexity of the risks present in a.s.r.'s businesses.

There are two function holders. One is responsible for the legal entities in the Life segment (Individual Life, Funeral and Pensions business lines) as well as for the overall Life segment of ASR Nederland N.V. The other for the entities in the Non-life segment (Property & Casualty, Disability and Health business lines) as well as for the overall Non-life segment of ASR Nederland N.V.

The AF function is represented in several risk committees. Each year, the AF drafts a formal report, which it discusses with the a.s.r. Risk Committee (or Executive Board) and the a.s.r. Audit & Risk Committee.

Independence of the AF is secured through several measures:

- The Actuarial function holders are appointed and dismissed by the Board Both the appointment and the dismissal of the holders is, together with an advice from the Audit and Risk Committee, submitted to the Supervisory Board for approval;
- The Actuarial function holders have unrestricted access to all relevant information necessary for the exercise of their function;
- The Actuarial function holders have a direct reporting line to the a.s.r. Risk Committee or Executive Board and the Audit and Risk Committee of a.s.r. The AF is free to report to one of the management or risk committees when considered necessary;
- The AF is free to report all relevant issues;
- In case of a conflict of interest with the CFO and/or CRO, the function holders may escalate directly to the CEO and to the Chairperson of the Audit & Risk Committee of a.s.r.;
- If the AF is asked to perform tasks that are outside the formal scope described in a charter, the function holder(s)
 assess if there is a conflict of interest. If so, the AF will not execute the task unless there are sufficient additional
 measures to mitigate conflicts of interest;
- The Internal Audit Department conducts an annual assessment of the functioning of the governance of a.s.r. including the (independent) operation of the Actuarial function;
- Target Setting and assessment of the function holders is done by the CFO and must be approved by the Chairman of the Audit & Risk Committee.

B.7 Outsourcing

a.s.r. has outsourced some of its operational activities. Despite this, a.s.r. remains fully responsible and accountable for these activities and the power of influence remains with a.s.r. To manage the risks related to outsourcing, a.s.r. has drafted a policy to safeguard a controlled and sound business operations. Solid risk management, governance, and monitoring are essential to manage outsourced activities. The outsourcing policy outlines the relevant procedures and is applicable to a.s.r. and its subsidiaries. The policy has been updated in 2018.

To define the respective rights and obligations, a.s.r. drafts a written outsourcing contract with the service provider. Confidentiality, quality of service, and continuity are key for a.s.r. in carrying out its activities. In addition, customer centricity and compliance with law and regulations are essential, regardless of who performs the activities. To safeguard the quality of outsourced activities, service providers are scrutinised prior to selection and during the services. Being compliant with the terms of the contract is monitored. The findings of the monitoring activities serve as input for the periodic consultation on operational, tactical and strategic level with the service provider. a.s.r. has outsourced certain critical and/or important activities that are part of material operational processes.

Outsourced activities are related to front-, mid- or back office activities related to the supervised entities. In addition, the management and service of some supporting systems are also outsourced.

B.8 Any other information

Other material information about the system of governance does not apply.

C Risk profile

Risk management is an integral part of a.s.r.'s daily business operations. a.s.r. applies an integrated approach to managing risks ensuring that strategic objectives are met. Value is created by striking the right balance between risk and return and capital, whilst ensuring that obligations to stakeholders are met. The Risk Management Function (RMF) supports and advises a.s.r. leven in identifying, measuring and managing risks, and ensures that adequate and immediate action is taken in the event of developments in the risk profile.

a.s.r. leven is exposed to a number of risks, such as strategic risks, market risks, counterparty default risks, liquidity risks, underwriting risks. The RMF monitors the risk profile of a.s.r. leven in order to ensure that it stays within the risk appetite.

As of 1 January 2016, the Solvency II regime is in place. a.s.r. measures its risks based on the standard model as prescribed by the Solvency II regime and therefore the risk management framework and this chapter are fully aligned with Solvency II. The Solvency Capital Requirement (SCR) is determined as the change in own funds caused by a predetermined shock which is calibrated to a 1-in-200-year event. The basis for these calculations are the Solvency II technical provisions which are calculated as the sum of a best estimate and a risk margin.

The financial and non-financial risk profiles are integrated on behalf of the a.s.r. Risk Committee. In the event of breaches, the a.s.r. Risk Committee is authorised to decide on corrective actions.

Management of financial risks in 2018

a.s.r. leven strives for an optimal trade-off between capital, risk and return. Steering on capital, risk and return is applied in decision-making throughout the entire product cycle: from PARP (Product Approval Review Process) to the payment of benefits and claims. At a more strategic level, decision-making takes place through balance sheet management. A robust solvency position takes precedence over profit, premium income and direct investment income. Risk tolerance levels and limits are disclosed in the financial risk appetite statements (financial RAS) and are monitored by the FRC. The FRC evaluates financial risk positions against the RAS on a monthly basis. Where appropriate, a.s.r. leven takes additional mitigating measures.

In 2018 the Actuarial Function performed its regulatory tasks in assessing the adequacy of the Solvency II technical provisions, giving an opinion on reinsurance and underwriting and contributing to the Risk Management Function. The actuarial function report relating to these areas was discussed by the Executive Board and by the Audit & Risk Committee.

Management of non-financial risks in 2018

Non-financial risk appetite statements are in place to manage the risk profile within the limits determined by the Executive Board and approved by the Supervisory Board. The Non-Financial Risk Committee (NFRC) monitors and discusses on a quarterly basis whether non-financial risks are adequately managed. Should the risk profile exceed the risk appetite, the NFRC will decide on actions to be taken. The financial and non-financial risk profiles are integrated on behalf of the a.s.r. Risk Committee. In the event of breaches, the a.s.r. Risk Committee is authorised to decide on corrective actions. The risk profile and internal control performance of each business is discussed on a quarterly basis with senior management in the business risk committees and the NFRC.

In 2018, a.s.r. took steps to further improve the effectiveness of the Risk Management Function. The Operational Risk Management (ORM) policy including underlying procedures is updated towards a more risk based approach. Tasks and responsibilities of the first and second line (including the role of assessor by the RMF) of defense are tightened in the ORM policy and underlying procedures.

In order to enhance the uniformity, efficiency and effectiveness of the risk- and control cycle, a.s.r. additionally purchased and rolled-out the Governance and Risk Compliance (GRC) tool ('Cerrix'). In 2019, a.s.r. will improve the functionality of the tool continuously with new modules to strengthen the alignment with the operational risk management policies. a.s.r. will continue to look for opportunities to improve the management of its operational risks in 2019.

In 2018, a.s.r. took various actions to enhance the measurement and reporting of data quality for financial reporting purposes and to mitigate the end-user computing risks. A project to address these items has started in the beginning of 2018 and is expected to be completed in the beginning of 2019.

Risk priorities 2018

The risk priorities and emerging risks of a.s.r. are annually defined by the Executive Board based on the Strategic Risk Analysis (top-down and bottom-up approach). The most recent status of the risk priorities and progress on the defined actions are reported to the a.s.r. Risk Committee quarterly.

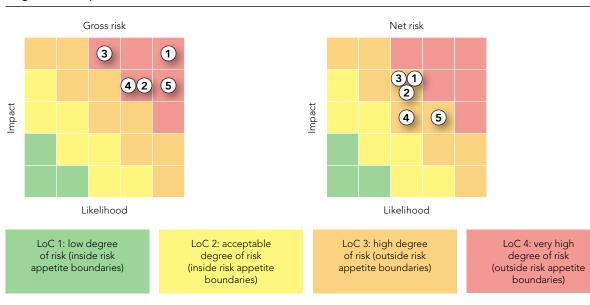
The risk priorities are:

- 1. Pressure on cash-generating business model;
- 2. Juridification of society;
- 3. Low investment returns;
- 4. Impact of supervision, laws and regulations;
- 5. Information (cyber) security risk.

Emerging risks are:

- Further longevity risk due to technological developments in healthcare.
- Tight labour market conditions (causing possible shortage in needed skills and change management capacity).

To determine the degree of risk, a.s.r. uses a risk scale based on likelihood and impact (Level of Concern). For the risk priorities, the degree of risk is determined by the a.s.r. Risk Committee quarterly. The following table shows the degree of risk per 2018 Q3.



Degree of risk per 2018Q4

* Gross risk: the risk that exists if there are no (control) measures in place to mitigate the risk. Net risk: risk when taking into account a.s.r.'s mitigating measures.

a.s.r. takes measures to mitigate risks outside the risk appetite boundaries. For each risk priority the measures are described in the text below.

Pressure on result and renewal of cash-generating business model

The insurance market is changing and the (current) cash-generating business model is under pressure due to the scale and speed of (technological) developments in the insurance market. These developments are changing customer demand, new entrants to the insurance market, growing competition, cybercrime and technological developments.

It is important to meet customers' needs, taking into account changing customer demand. New generations buy (insurance) products more via digital, direct distribution channels. The role a company plays in society is becoming increasingly important. CSR is increasingly a criterium customers take into account when buying a service or product.

a.s.r. continually monitors and assesses its product portfolio and distribution channels for relevant alterations in order to meet the changing needs of customers and to achieve planned cost reductions as premiums fall. It is, for example, actively monitoring the market to study potential acquisitions and mergers. Other mitigating measures include the (further) roll-out of capital-light initiatives (such as third party asset management and focus on pension DC).

Juridification of society

Risk description and contingent liability unit-linked life insurance products

Political, regulatory and public attention focused on unit-linked life insurance policies for some time now. Elements of a.s.r. leven's unit-linked life insurance policies are being challenged on multiple legal grounds in current legal proceedings, and may continue to be in the future. There is a risk that one or more of the current and/or future claims and/or allegations will be upheld. To date, a number of rulings relating to unit-linked life insurance products have been issued by the Financial Services Complaints Board (FSCB) and (appeal) courts in the Netherlands against a.s.r. leven and other insurers in specific cases. In these proceedings, different (legal) approaches have been taken to arrive at a ruling. The outcomes of these rulings are diverse. Because the record of (a.s.r. leven's) policies dates back many years, it contains a wide variety of products with different features and conditions, and since rulings are so diverse, no reliable estimate can be made concerning the timing and outcome of these current and future legal proceedings.

Although the financial consequences of these developments could be substantial, a.s.r. leven's exposure cannot be reliably estimated or quantified at this point. If one or more of these legal proceedings succeed, there is a risk that a ruling, although only legally binding on the parties involved in the proceedings, could be applied to or be relevant for other unit-linked life insurance policies sold by a.s.r. leven. Consequently, the financial consequences of any current and/ or future legal proceedings brought upon a.s.r. leven could be substantial for a.s.r. leven's life insurance business, and may have a material adverse effect on a.s.r. leven's financial position, business, reputation, revenues, results of operations, solvency, financial condition and/or prospects.

Compensation scheme Unit-linked products (compensatie beleggingsverzekeringen).

In 2008, a.s.r. leven concluded an outline agreement with two leading consumer protection organisations to offer compensation to unit-linked policyholders if the cost and/or risk premium exceeded a specified maximum. A full agreement on implementation of the compensation scheme was reached in 2012. The total recognised cumulative financial costs relating to the compensation scheme for Individual life in a.s.r. leven's income statement until 2018 was \notin 1,030 million. This includes, amongst other things, compensation paid, amortisation of surrender penalties and costs relating to improved product offerings. The remaining provision in the balance sheet as at 31 December 2018 amounted to \notin 44.0 million and is available only to cover potential additional compensation for distressing cases and costs relating to the compensation scheme.

Legal proceedings

a.s.r. leven is subject to a number of legal proceedings initiated by individual unit-linked policyholders, in most cases represented by claims organisations. While to date fewer than 15 cases are pending before Dutch courts and courts of appeal and fewer than 125 cases are pending before the Financial Services Complaints Board ("FSCB") (the Dispute Committee as well as the Committee of Appeal of the FSCB), there is no assurance that further proceedings will not be brought against a.s.r. in the future. Future legal proceedings regarding unit-linked life insurance policies might be brought upon a.s.r. by consumers individually, by consumer organisations acting on their behalf or in the form of a collective action. Furthermore, there is an ongoing lobby by consumer protection organisations, such as the Consumentenbond and Stichting Geldbelangen, to continuously gain media attention for unit-linked life insurance policies. These organisations argue, amongst other things, that consumers did not receive sufficient compensation based on the compensation scheme.

a.s.r. leven is currently subject to two collective actions. In June 2016, Woekerpolis.nl initiated a collective action, requesting the district court Midden-Nederland to declare that a.s.r. has sold products in the market which are defective in various respects (e.g. on transparency regarding cost charges and other product characteristics, and included risks for which the insurer failed to warn, such as considerable stock depreciations, the inability to realise the projected final policy value, unrealistic capital projections due to difference in geometric versus arithmetic returns and on general terms and conditions regarding costs that Woekerpolis.nl considers unfair). Also, in March 2017, the Consumentenbond started a collective action against a.s.r. This collective procedures, a.s.r. has rejected all the claims. In a decision of 6 February 2019 the district court Midden-Nederland rejected all claims of Woekerpolis.nl and concluded that the products sold by a.s.r. cannot be considered as defective. The collective procedure of Consumentenbond is currently pending at the district court Midden-Nederland.

Low investment returns

It is becoming an increasing challenge to generate sufficient returns on investment and to be able to reinvest against attractive terms. The pressure to generate investment returns (search for yield) creates much tension between risk and return.

Unforeseen political developments and/or macroeconomic trends could weaken a.s.r.'s solvency position. a.s.r will remain permanently alert to the risk of a scenario developing in Europe with a major impact on capital and solvability. It therefore continuously monitors its interest rate position and reports the findings to the Financial Risk Committee. The Interest Rate Risk Committee then holds preparatory discussions to decide whether or not to adjust the interest rate hedge. The consequences of possible low investment returns and interest rate fluctuations are also examined more fully in the Strategic Asset Allocation (SAA), an annual ALM study which a.s.r. conducts at its own expense, and also to some extent in the ORSA.

Impact of supervision, laws and regulations

As a result of increasing political and regulatory pressure, there is the risk that:

- a.s.r.'s reputation will come under pressure if new requirements are not met in time;
- Available resources will largely be utilised to align the organisation with new legislation, meaning there are fewer resources to spend on core customer processes;
- Processes will become less efficient and pressure on the workforce will increase;
- a.s.r. will have administrative fines or sanctions imposed on it for failure to comply with requirements (on time).

a.s.r. constantly monitors changing laws and regulations and assess their impact and the corresponding actions required (in cooperation with Compliance and Legal). Also the availability of capacity is monitored continuously to have sufficient resources to process all regulations in a timely manner. a.s.r. has a multidisciplinary legislation and regulation committee to help the various businesses signal and adopt legislative amendments in good time. The committee reports to the NFRC.

In 2018 a.s.r. had as also set up an internal centralised project group to implement the IDD (Insurance Distribution Directive, applicable with effect from 01-10-2018. This project group managed and supported processes, policy guidelines and the interpretation this directive throughout a.s.r. In addition, in 2018 knowledge sessions were again organised for the decentralised project organisations, a fit-gap analysis was conducted and policy guidelines were formulated. The same approach has been used for the implementation of legislation on data protection, Algemene Verordening Gegevensbescherming (AVG) to be compliant by 25 May 2018.

In May 2017, the International Accounting Standards Board (IASB) published IFRS 17, the new IFRS standard for insurance contracts. IFRS 17 will take effect on 1 January 2022, at which time it will replace the existing IFRS 4 standard. IFRS 17 is designed to facilitate comparability between insurers and increase transparency in relation to risks, contingencies, losses and embedded options in insurance contracts. IFRS 9 Financial instruments was published in July 2014 and has had a major impact on the processing of the financial instruments (investments). IFRS 9 will, like IFRS 17, be applied by a.s.r. group from 1 January 2022 in order to maintain cohesion between these two standards and guard against IFRS 9 being implemented twice. This postponement is not available to ASR Bank N.V., which therefore began applying IFRS 9 from 1 January 2018. In 2017, a.s.r. launched an internal programme to prepare for the implementation of IFRS 17 and IFRS 9 throughout the group. Several concerns and issues are brought to the attention of the IASB during September and October 2018. The IASB will discuss whether any amendments to IFRS 17 are justified, including a potential deferral of the effective date. The IFRS 17 and IFRS 9 programme will have a major impact on the group's primary financial processing and reporting and could have a significant effect on its capital, financial statements and related KPIs. Finance, risk, audit and the business have all been given responsibility in the programme due to the need to develop an integrated vision.

Information (cyber) security risk

Information (cyber) security risks still increased due to digitalisation In order to prevent cyber attacks and information security breaches, a.s.r. is sufficiently aware of the potential threats posed to the organisation. a.s.r. runs the risk of new technological developments requiring different and increased expertise and other mitigating measures. The potential of confidential information becoming available to third parties, intentionally or unintentionally, is a risk facing both a.s.r. and its customers, and one which could ultimately lead to significant reputational harm. All our employees are therefore expected to be fully aware of the risks associated with the handling of confidential information regarding our customers, employees, financial information and strategy, and are asked to do their utmost to protect our assets.

The use of, and dependence on, IT is significant for both a.s.r. and its customers. Cybercrime could therefore have a major impact on a.s.r.'s security and continuity. The attempted cybercrime attacks a.s.r. experienced in 2018, which included phishing, malware and ransomware attacks, have become a well-known phenomenon.

a.s.r. made ongoing investments throughout 2018 to further strengthen its defences against cybercrime and to enhance the expertise of its teams. a.s.r.'s cybercrime experts closely monitor and evaluate developments in cybercrime, and take suitable measures where necessary. a.s.r. regularly tests the organisation's ability to detect and respond to cyber incidents (red team test). An awareness programme to improve the ability of employees and management to recognise phishing and other cyber threats was conducted throughout 2018, and due to the importance of the different outsourcing initiatives, a.s.r. also screened the cyber controls of its own suppliers. As a result, a.s.r. has succeeded in keeping obstacles to a minimum. Partnerships with other financial institutions and public agents, such as the Dutch National Cyber Security Center (NCSC) and i-CERT (cybersecurity partnership between insurance companies), are crucial to mounting an effective defence against cybercrime, and a.s.r is actively involved in this.

Additional longevity risk (emerging risk)

The life expectancy of the policyholders is increasing. The government encourages the society to strive for a healthier lifestyle. The (technological) developments in healthcare is improving the life quality and further increases the life expectancy. These developments increases the risk exposure of a higher-than-expected payout ratios for especially defined-benefit pension plans. a.s.r remains permanently alert to further optimize the mortality risk and longevity risk.

Tight labour market conditions (emerging risk)

The economic growth in the last years increased the demand off experienced and skilled staff. The insurance market is under pressure and is changing rapidly due to e.g. market conditions and technological developments. Tight labour market conditions could cause a possible shortage for a.s.r. in needed skills and change management capacity.

Attracting and retain experienced and skilled staff is challenging in current market conditions. Therefore a.s.r. will continually monitor and has further developed the social plan to improve personal development possibilities and to increase flexible working conditions for its employees.

Solvency II sensitivities

The sensitivities of the solvency ratio as at 31 December 2018, expressed as the impact on the a.s.r. leven Solvency II ratio (in percentage points) are as presented in the table below. The total impact is split between the impact on the Solvency II ratio related to movement in the available capital and the required capital.

Effect on:	Available capital		Require	d capital	Ratio	
Scenario (%-point)	31 December 2018	31 December 2017	31 December 2018	31 December 2017	31 December 2018	31 December 2017
UFR 3.2%	-25	-26	-5	-5	-29	-31
Interest rate +1% (2017						
incl. UFR 4.2% / 2018 incl.						
UFR 4.05%)	-9	-4	+14	+14	+4	+9
Interest rate -1% (2017 incl.						
UFR 4.2% / 2018 incl.						
UFR 4.05%)	+17	+8	-9	-14	+7	-6
Volatility Adjustment -10bp	-12	-11	-3	-2	-15	-13
Equity prices -20%	-10	-10	+8	+9	-3	-1
Property values -10%	-9	-8	+3	+3	-6	-5
Spread +75bps/VA +20/21 bps	+13	+12	+10	+3	+24	+15

Solvency II sensitivities - market risks

Solvency II sensitivities - explanation

Risk	Scenario		
Interest rate risk – UFR	Measured as the impact of a lower UFR. For the valuation of liabilities, the extrapolation to		
	the UFR of 3.2% after the last liquid point of 20 years remained unchanged.		
Interest rate risk (incl. UFR	Measured as the impact of a parallel 1% upward and downward movement of the interest		
4.2%/4.05%)	rates. For the liabilities, the extrapolation to the UFR (4.05% for 2018 and 4.2% for 2017) after		
	the last liquid point of 20 years remained unchanged.		
Volatility Adjustment	Measured as the impact of a 10 bps decrease in the Volatility Adjustment.		
Equity risk	Measured as the impact of a 20% downward movement in equity prices.		
Property risk	Measured as the impact of a 10% downward movement in the market value of real estate.		
Spread risk (including impact	Measured as the impact of an increase of spread on loans and corporate bonds of 75 bps.		
of spread movement on VA)	At the same time, it is assumed that the Volatility Adjustment will increase by 20bps (2017		
	was 21 bps) based on reference portfolio.		

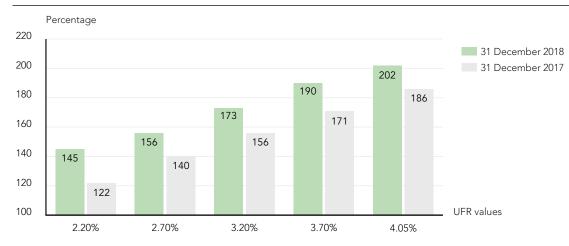
The largest change in the Solvency II sensitivities was in the intrest rate -1% sensitivity. The change from +9 to +4 in the upward scenario (and from -6 to +7 in the downward scenario is mainly caused by the sign change in interest rate risk (-1% scenario dominant instead of +1%).

Expected development UFR

European Insurance and Occupational Pensions Authority (EIOPA) may reduce the ultimate forward rate used to extrapolate insurers' discount curves to better reflect expected inflation and real interest rates. There are various scenarios regarding lowering the Ultimate Forward Rate (UFR).

The UFR will decrease, starting 2018, from 4.2% to 3.6% with steps of 15 basis points per year. In 2018 the UFR was 4.05%. After the next decline of the UFR by 15 basis points the solvency ratio will remain above internal solvency objectives.

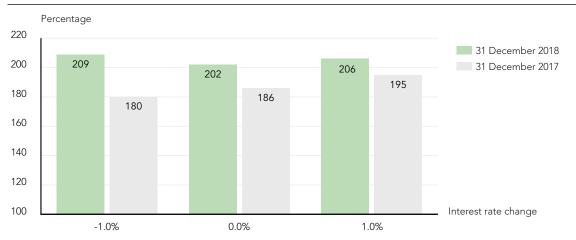
Changes in the UFR have an almost linear effect on the solvency ratio. The impact on the solvency ratio of various UFR levels is stated below.



Sensitivity Solvency II ratio to UFR

Interest rate sensitivity of Solvency II ratio

The impact of the interest rate on the Solvency II ratio, including the UFR effect, is stated below. The UFR methodology has been applied to the shocked interest rate curve.



Sensitivity Solvency II ratio to interest rate

Equity risk

The 2018 the equity risk decreased mainly due to a smaller equity portfolio as a result of both de-risking and the drop of share prices. Also the average risk charge decreased on balance as a result of (i) the downward effect of the equity dampener and (ii) the upward effect of the run-off of the transitional measure of equity risk.

Spread risk

The SCR spread risk per saldo decreased in 2018. On the one hand SCR spread risk increased due to a larger fixed income portfolio, mainly due to the acquisition of Generali. On the other hand SCR spread risk decreased due to (i) the shortening duration of the credit portfolio and (ii) the introduction of LAC TP.

The sensitivity to spread risk is measured as the impact of an increase of spread on loans and corporate bonds of 75 bps. The volatility adjustment is based on a reference portfolio. An increase of 75 bps of the spreads on loans and corporate bonds within the reference portfolio leads to an increase of the VA with 20 bps in 2018 (2017: 21 bps).

Loss absorbing capacity of deferred tax

a.s.r. uses the following methodology for the calculation of the Loss Absorbing Capacity Deferred Tax (LAC DT) benefit in euros of a.s.r. leven.

Relevant regulation and current guidance (Delegated Regulation, Level 3 guidelines, Dutch Central Bank Q&A's and IAS12) are taken into account in the development of the LAC DT methodology.

LAC DT Components		
Model sort	Available for substantiation	Utilized in applied LAC DT factor
Component 1 – Taxable profit (t)	<u> </u>	~
Component 2 – Taxable profit (t-1)	✓	~
Component 3 – Net DTA position	✓	~
Component 4a – Risk Margin	✓	~
Component 4b – Future taxable profit	✓	~

The outcome is an unrounded LAC DT factor.

- 1. For the basic model (the entities other than a.s.r. leven) the unrounded LAC DT factor is determined based on component 1 4a only. For the advanced model (a.s.r. leven), also future profits (component 4b) are projected.
- 2. Moreover, an outlook is made of the underpinning of the LAC DT factor in the upcoming quarters, divided over the separate components. This outlook will take into account potential risks not yet included in the model, also called a code of conduct. This code of conduct ensures financial stability in the LAC DT benefit for a.s.r. leven in euros, resulting in financial stability of the solvency position of a.s.r. leven.
- 3. The LAC DT factors and outlook are reviewed by the 2nd line.
- 4. A proposal with the advised LAC DT factors will be presented to the Financial Risk Committee (FRC). The LAC DT factors to be used result.

Another source of stability can be found in the way the LAC DT factor is adjusted if a change is desired. In case the substantiation of the LAC DT is too low the factor is lowered immediately, taking into account the code of conduct. However, in case an increase is possible, it is only realized in case it is sustainable and significant.

Loss absorbing capacity of technical provisions (LAC TP)

Currently the discretionary profit sharing element in the best estimate liabilities is not sensitive to stress scenarios. This is caused by the fact that the discretionary element is a manual correction. In the determination of the SCR the discretionary element is not reflected. Starting from 2018Q4 a.s.r. will start taking into account this discretionary element in de SCR. This will be reflected in the loss absorbing capacity of technical provisions (LAC TP). The LAC TP method is pragmatic and appropriately chosen given the current approach of the best estimate liabilities. The LAC TP distinguishes following steps:

- Calibration and assessment to determine what the effect of the stress scenario has on the discretionary profit sharing. This is done by assessing how severe the specific stress is compared to total SCR. The distribution on which this assessment is done is calibrated under following assumptions:
 - It is not known how the SCR is distributed. The main assumption is that the tails are fatter compared to normal distribution. In the SF-SCC calibration document this is also discussed.
 - Total SCR (post diversification and tax) is the 1 in 200 loss.
 - Per individual stress the percentile is selected from before mentioned distribution.
 - Scenarios are classified in buckets: low, medium, high and catastrophic.
- Subsequently, the LAC TP impact is determined by multiplying the numbers of years profit sharing is eliminated (dependable on classification in buckets) and the part of sharing that is eliminated (also dependable on classification in buckets, but including expert judgement for several risk types e.g. spread).
 - The mass lapse shock is corrected due to the fact that part of the discretionary profit sharing is reflected in this risk type. The correction is relatively small.

• The LAC TP on Leven level is determined based on the formula given in the Delegated Acts and the LAC TP on group level is determined based on the formula given in the Level 3 guidelines.

C.1 Insurance risk

Insurance risk is the risk that future insurance claims and benefits cannot be covered by premium and/or investment income, or that insurance liabilities are not sufficient, because future expenses, claims and benefits differ from the assumptions used in determining the best estimate liability.

Risk-mitigating measures are used to reduce and contain the volatility of results or to decrease the possible negative impact on value as an alternative for the capital requirement. Proper pricing, underwriting, reinsurance, claims management, and diversification are the main risk mitigating actions for insurance risks.

The solvency buffer is held by a.s.r. leven to cover the risk that claims may exceed the available insurance provisions and to ensure its solidity. The solvency position of a.s.r. leven is determined and continuously monitored in order to assess if a.s.r. leven meets the regulatory requirements.

As of 1 January 2016, the Solvency II regime is in place. a.s.r. leven measures its risks based on the standard model as prescribed by the Solvency II regime. The Solvency Capital Requirement (SCR) for each insurance risk is determined as the change in own funds caused by a predetermined shock which is calibrated to a 1-in-200-year event. The basis for these calculations are the Solvency II technical provisions which are calculated as the sum of a best estimate and a risk margin.

The insurance risk arising from the insurance portfolios of a.s.r. leven is as follows.

Life insurance risk - required capital		
	31 December 2018	31 December 2017
Life insurance risk	1,457	1,427

Solvency II sensitivities

a.s.r. leven has assessed the impact of various sensitivities on the Solvency II ratio. The sensitivities as at 31 December 2018 expressed as impact on the a.s.r. leven solvency ratio (in percentage points) are as follows:

Solvency II sensitivities - insurance risks

Effect on:	Available capital		Required capital		Ratio	
Type of risk (%-points)	31 December 2018	31 December 2017	31 December 2018	31 December 2017	31 December 2018	31 December 2017
Expenses -10%	+7	+6	+2	+1	+9	+8
Mortality rates, all products -5%	-4	-3	-1	-1	-4	-4
Lapse rates -10%	-	-	-		-	

Solvency	Il sensitivities - explanation
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Risk	Scenario
Expense risk	Measured as the impact of a 10% decrease in expense levels.
Mortality risk	Measured as the impact of a 5% decrease in all mortality rates. A mitigating effect
	will occur between mortality and longevity rates.
Lapse risk	Measured as the risk of a 10% decrease in lapse rates.

Valuation for Solvency purposes

C.1.1 Life insurance risk

The life portfolio can be divided into funeral, individual life and group pension. The insurance contracts are sold primarily to retail and wholesale clients through intermediaries.

The products are sold as insurance products in cash or unit-linked contracts. With respect to products in cash, the investment risk is fully borne by the insurer whereas, in the case of unit-linked products, the majority of the investment risk is for the policyholder's account.

The following life insurance risks are involved:

Mortality risk

Mortality risk is associated with (re)insurance obligations, such as endowment or term assurance policies, where a payment or payments are made in case of the policyholder's death during the contract term. The increase in mortality rates is applied to (re)insurance obligations which are contingent on mortality risk. The required capital for this risk is calculated as the change in own funds of a permanent increase of mortality rates by 15% for all ages and each policy.

Longevity risk

Longevity risk is associated with (re)insurance obligations where payments are made until the death of the policyholder and where a decrease in mortality rates results in higher technical provisions. The required capital is calculated as the change in own funds of a permanent decrease of mortality rates by 20%. The decrease in mortality rates is applied to portfolio's where payments are contingent on longevity risk.

Disability-morbidity risk

Morbidity or disability risk is associated with all types of insurance compensating or reimbursing losses (e.g. loss of income, adverse changes in the best estimate of the liabilities) caused by changes in the morbidity or disability rates. The scenario analysis consists of a 35% increase in disability rates for the first year, 25% for subsequent years, combined with a decrease in revalidation rates of 20%.

Expense risk

A calculation is made of the effect on own funds of a permanent increase in costs used for determining the best estimate. The scenario analysis contains an increase in the costs of 10% and an increase in the cost inflation of 1 percentage point per year. This scenario also includes a similar shock in the investment costs. Both the internally and externally managed investment costs are involved in this scenario.

Lapse risk

Lapse risk is the risk of losses (or adverse changes in the best estimate of the liabilities) due to an unanticipated (higher or lower) rate of policy lapses, terminations, changes to paid-up status (cessation of premium payment) and surrenders. The effect of the lapse risk is equal to the highest result of a permanent increase in lapse rates of 50%, a permanent decrease in lapse rates of 50% or a mass lapse event (70% of insurance policies in collective pension funds or 40% of the remaining insurance policies). The lapse shocks are only applied to portfolios where this leads to a higher best estimate.

The required capital for a mass lapse event is reduced by the proceeds that are to be expected from a reinsurance arrangement (Mass Lapse Cover). This arrangement covers the risks of a mass lapse event of parts of the portfolio to the extent that the mass lapse is more than 20% and less than 40%.

Life catastrophe risk

Catastrophe risk arises from extreme events which are not captured in the other life insurance risks, such as pandemics. The capital requirement for this risk is calculated as a 1.5 per mille increase in mortality rates in the first projected year for (re)insurance obligations where the increase in mortality rates leads to an increase in technical provisions.

Mortgage Loans

Within the individual life portfolio there is a group of policies directly linked to a mortgage loan ("Spaarhypotheken"). In case the mortgage loan is not provided by a.s.r. leven, but by another party, which is the case for most of these policies, the interest that a.s.r. leven reimburses to the policyholder is claimed from the party that has provided the mortgage loan. The cashflow of interests from the provider of the mortgage loan to a.s.r. leven represents an asset. The cashflow and value of this asset depends on the cashflow of the linked savings policy. Therefore, the change in this asset value due to mortality or lapse is taken into account when determining the SCR for life insurance risks.

Employee benefits

ASR Nederland N.V. has insured the post-employment benefit plans for a.s.r.'s employees with a.s.r. leven. Though the liability of this plan is classified as employee benefits on the balance sheet of ASR Nederland N.V. and determined according to IFRS principles, for a.s.r. leven the post-employment benefit plan for a.s.r.'s employees is a group pension contract and is treated that way both in IFRS-accounts and in Solvency II.

Other information

Within a.s.r. leven, the longevity risk is dominant and arises from group pension business and individual annuities. The longevity risk is partly offset by mortality risk that arises from the funeral portfolio and individual policies with mortality risk. In addition to longevity, a.s.r. leven is exposed to expense risk and lapse risk, though lapse risk is reduced due to the aforementioned Mass Lapse reinsurance arrangement.

Below table summarizes the required capital for abovementioned life insurance risks based on the standard model.

Life insurance risk - required capital

	31 December 2018	31 December 2017
 Mortality risk	297	268
Longevity risk	928	848
Disability-morbidity risk	6	6
Lapse risk	313	398
Expense risk	641	623
Revision risk	-	-
Catastrophe risk (subtotal)	83	62
Diversification (negative)	-811	-778
Life insurance risk	1,457	1,427

For the life portfolio, the provision at year-end can be broken down as follows under Solvency II:

Life portfolio - technical provision per segment		
Segment	31 December 2018	31 December 2017
Insurance with profit participation		
Best estimate	21,964	21,489
Risk margin	1,097	1,088
Technical provision	23,060	22,577
Other life insurance		
Best estimate	9,757	8,531
Risk margin	514	475
Technical provision	10,271	9,006
Index-linked and unit-linked insurance		
Best estimate	7,908	7,743
Risk margin	108	92
Technical provision	8,016	7,835
Total		
Best estimate	39,629	37,763
Risk margin	1,718	1,656
Technical provision	41,347	39,418

The technical provisions and the risk margin have increased due to the acquisition of Generali (resp. 3,1 mrd and 0,2 mrd). This increase was mitigated by the outflow of the individual life portfolio and (to a lesser extend) the traditional pensions portfolio.

C.1.1.1 Managing life insurance risk

Life insurance risk is mitigated by pricing, underwriting policies and reinsurance.

Pricing is based on profit capacity calculations. A calculation is made of the price required to cover the risks. A calculation is made of the price required to cover the insurance liabilities, expenses and risks.

Underwriting policies describe the types of risks and the extent of risk a.s.r. leven is willing to accept. Policyholders may be subjected to medical screening for individual life insurance.

Reinsurance

Reinsurance and other risk-mitigating measures are used to reduce the volatility of results or to decrease the possible negative impact on value as an alternative to the capital requirement. Reinsurance arrangements have been set up to mitigate the effects of catastrophes on earnings.

The level of retention in different reinsurance contracts is aligned with the size and the risk profile of the underlying portfolios. This includes taking account of the cost of reinsurance on the one hand, and the risk that is retained on the other.

Buy out reinsurance

In order to optimise its balance sheet risks, a.s.r. leven entered into a reinsurance agreement with Legal and General Re in 2015. The share of Legal and General Re in pension obligations amounts € 180 million per 31 December 2018.

Mass lapse cover

The required capital (SCR) for a mass lapse event is reduced by the proceeds that are to be expected from a reinsurance arrangement (Mass Lapse Cover) with RGA, Munich Re and some other reinsurers. This arrangement covers the risks of a mass lapse event of parts of the portfolio to the extent that the mass lapse is more than 20% and less than 40%.

C.2 Market risk

Market risk is the risk of potential losses due to adverse movements in financial market variables. Exposure to market risk is measured by the impact of movements in financial variables such as equity prices, interest rates and property prices. The various types of market risk which are discussed in this section, are:

- Interest rate risk;
- Equity risk;
- Property risk;
- Currency risk;
- Spread risk;
- Concentration risk;

Market risk reports are submitted to the FRC at least once a month. Key reports on market risk include the Solvency II and economic capital report, the interest rate risk report and the report on risk budgets related to the strategic asset mix.

A summary of sensitivities to market risks for the regulatory solvency, total equity and profit for the year is presented in the

tables below. The first table summarizes the required capital for market risks based on the standard model:

Market risk - required capital

	31 December 2018	31 December 2017
Interest rate	213	389
Equity	503	542
Property	743	707
Currency	187	218
Spread	928	960
Concentration	147	15
Diversification (negative)	-622	-574
Total	2,099	2,256

The main market risks of a.s.r. leven are spread, property and equity risk. This is in line with the risk budgets based on the strategic asset allocation study.

The value of investment funds at year-end 2018 was € 2,677 million (2017: € 2,765 million). a.s.r. leven applies the look-through approach for investment funds to assess the market risk.

The interest rate risk is the maximum loss of (i) an upward shock or (ii) a downward shock of the yield curve. For a.s.r. leven the downward shock (\notin 213 million) is dominant.

a.s.r. leven applies the transitional measure for equity risk for shares in portfolio at 31 December 2015. The SCR equity shock was 22% at 31 December 2015 and linear, increasing to (i) 39% + equity dampener for type I shares and (ii) 49% + equity dampener for type II shares. The equity dampener has a value between -10% and 10%. In the event of increasing equity prices, the equity dampener will have a smaller dampening effect.

The diversification effect shows the effect of having a well-diversified investment portfolio.

C.2.1 Interest rate risk

Interest rate risk is the risk that the value of assets, liabilities or financial instruments will change due to fluctuations in interest rates. Many insurance products are exposed to interest rate risk; the value of the products is closely related to the applicable interest rate curve. The interest rate risk of insurance products depends on the term to maturity, interest rate guarantees and profit-sharing features. Life insurance contracts are particularly sensitive to interest rate risk. The required capital for interest rate risk is determined by calculating the impact on the available capital due to changes in the yield curve. Both assets and liabilities are taken into account. The interest rate risk is the maximum loss of (i) an upward shock or (ii) a downward shock of the yield curve according to the prescribed methodology. a.s.r. applies a look- through approach for investment funds to assess the interest rate risk.

The interest rate risk is calculated by a relative shock up- and downward shock of the risk-free (basis) yield curve. All adjustments (credit spread, volatility adjustment) on this yield curve are considered constant. The yield curve is extrapolated to the UFR. The yield curve after shock is not extrapolated again to the UFR.

The used shocks vary by maturity and the absolute shocks are higher for shorter maturities (descending: 75% to 20% and ascending: -70% to -20%):

- the yield curve up shock contains a minimum shock of 100bps;
- the yield curve in after the downward shock is limited to zero (no negative interest rates);
- the yield curves of all currencies are shocked simultaneously.

Solvency II sensitivities - market risks

	31 December 2018	31 December 2017
SCR interest rate risk up	-116	-13
SCR interest rate risk down	-213	-389
SCR interest rate risk	-213	389

a.s.r. leven has assessed various scenarios to determine the sensitivity to interest rate risk. The impact on the solvency ratio is calculated by determining the difference in the change in available and required capital.

Solvency II sensitivities - interest rate							
Effect on:	Available capital		Required capital		Ratio		
Scenario (%-point)	31 December 2018	31 December 2017	31 December 2018	31 December 2017	31 December 2018	31 December 2017	
UFR 3.2%	-25	-26	-5	-5	-29	-31	
Interest rate +1% (2017 incl. UFR 4.2% / 2018 incl. UFR							
4.05%)	-9	-4	+14	+14	+4	+9	
Interest rate -1% (2017 incl. UFR							
4.2% / 2018 incl. UFR 4.05%)	+17	+8	-9	-14	+7	-6	
Volatility Adjustment -10bp	-12	-11	-3	-2	-15	-13	

Interest rate risk is managed by aligning fixed-income investments to the profile of the liabilities. Among other instruments, swaptions and interest rate swaps are used for hedging the specific interest rate risk arising from interest rate guarantees and profit sharing features in life insurance products.

An interest rate risk policy is in place for the Group as well as for the registered insurance companies. All interest ratesensitive balance sheet items are in scope, including the employee benefit obligations of the Group. In principle, the sensitivity of the solvency ratio to interest rates is minimized. In addition, the exposure to interest rate risk or various term buckets is subject to maximum amounts.

C.2.2 Equity risk

The equity risk depends on the total exposure to equities. In order to maintain a good understanding of the actual equity risk, a.s.r. applies the look-through approach for investment funds to assess the equity risk.

The required capital for equity risk is determined by calculating the impact on the available capital due to an immediate drop in share prices. Both assets and liabilities are taken into account. Stocks listed in regulated markets in countries in the EEA or OECD are shocked by 39% together with the symmetric adjustment of the equity capital charge (type I). Stocks in countries that are not members of the EEA or OECD, unlisted equities, alternative investments, or investment funds in which the look-through principle is not possible, are shocked by 49% together with the symmetric adjustment of the equity capital charge (type II).

a.s.r. applies the transitional measure for equity risk for shares in portfolio at 31 December 2015. The SCR equity shock was 22% at 31 December 2015 and linear increasing in 7 years to (i) 39% + equity dampener for type I shares and (ii) 49% + equity dampener for type II shares. This resulted in a reduction of the average risk charge of equity risk of about 3,6% per 31 December 2018.

Equity risk - required capital		
	31 December 2018	3 31 December 2017
SCR equity risk - required capital	503	3 542

The 2018 the equity risk decreased mainly due to a smaller equity portfolio as a result of both de-risking and the drop of share prices. Also the average risk charge decreased on balance as a result of (i) the downward effect of the equity dampener and (ii) the upward effect of the run-off of the transitional measure of equity risk.

In case the transitional measure would not be used, SCR equity risk would increase to € 552 million.

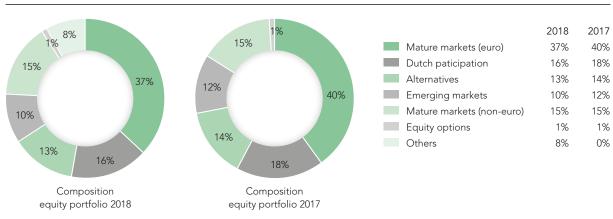
The sensitivity of the solvency ratio to changes in equity prices is monitored on a monthly basis. Sensitivity of regulatory solvency (Solvency II) to changes in equity prices is shown in the following table.

Solvency II sensitivities - equity prices							
Effect on:	Available capital		Required capital		Ratio		
Scenario (%-point)	31 December 2018	31 December 2017	31 December 2018	31 December 2017	31 December 2018	31 December 2017	
Equity prices -20%	-10	-10	+8	+9	-3	-1	

Composition of equity portfolio

The fair value of equities and similar investments at year-end 2018 was € 1,864 million (2017: € 1,980 million). The decrease in 2018 is a result of both de-risking and the drop of share prices. The equities are diversified across the Netherlands (including participating interests), other European countries and the United States. A limited part of the portfolio consists of investments in emerging markets and alternatives. A portfolio of put options with an value of €22 million is in place to mitigate the equity risk. The table below shows the exposure of the equity portfolio to sectors. The total value includes the equities in externally managed funds.

In 2018 ASR Levensverzekeringen acquired the participation ASR Utrecht Real Estate Investments NV (AUREIN), which includes real estate investments. Since the look through approach is not applied on participations, these investment are in scope of SCR equity risk (€ 157 million). On group level these investments are in scope of SCR equity risk, since AUREIN is fully consolidated on the balance sheet of ASR Nederland.



Composition of equity portfolio

C.2.3 Property risk

The property risk depends on the total exposure to real estate. In order to maintain a good understanding of the actual property risk, a.s.r. applies the look-through approach for investment funds to assess the property risk.

The required capital for property risk is determined by calculating the impact on the available capital due to an immediate drop in property prices by 25%. Both assets and liabilities are taken into account.

Property risk - required capital		
	31 December 2018	31 December 2017
SCR property risk - required capital	743	707

In 2018 the real estate investments increased due to both transactions and increases in property prices. As a result the required capital for property risk increased.

The sensitivity of the solvency ratio to changes in property value is monitored on a monthly basis. Sensitivity of regulatory solvency (Solvency II) to changes in property prices is shown in the following table.

Solvency II sensitivities - property values							
Effect on:	Availabl	Available capital		Required capital		Ratio	
Scenario (%-point)	31 December 2018	31 December 2017	31 December 2018	31 December 2017	31 December 2018	31 December 2017	
Property values -10%	-9	-8	+3	+3	-6	-5	

Composition of property portfolio

The property risk depends on the total exposure to property, which includes both property investments and property held for own use. The fair value of property was € 3,052 million at year-end 2018 (2017: € 2,844 million). The increase in 2018 was a result of both transactions and increases in property prices.

The property investments are diversified across the Netherlands. In 2018 a.s.r. reduced the exposure to offices and retail and increased the exposure to the other categories.

Composition of property portfolio



C.2.4 Currency risk

Currency risk measures the impact of losses related to changes in currency exchange rates. The table below provides an overview of all currencies with exposure on liabilities and the currencies with the largest exposures. a.s.r. has currency risk to insurance products in American dollars (USD), Australian dollars (AUD) and South African Rands (ZAR). The policy of a.s.r. is in principle to hedge the currency risk excluding investments in equities and investments that are externally managed. However, certain currency exposures are permitted from a tactical perspective within a specific risk budget.

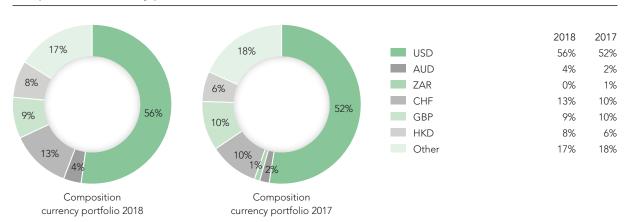
The required capital for currency risk is determined by calculating the impact on the available capital due to a change in exchange rates. Both assets and liabilities are taken into account and a look-through approach is applied for investment funds. For each currency the maximum loss due to an upward and a downward shock of 25% is determined except for a small number of currencies where lower shocks are applied (Danish crown; Bulgarian lev).

Currency risk - required capital		
	31 December 2018	31 December 2017
SCR currency risk - required capital	187	218

Currency risk has decreased 31 mln. This is mainly caused by a decrease in foreign stocks and bonds in externally managed funds.

Specification currencies with largest exposure

Foreign stocks and bonds in externally managed funds have substantially decreased in the following currencies: USD, AUD, ZAR, GBP. The AUD liabilities have substantially increased, which results in a negative AUD net exposure. This is against the hedge policy of a.s.r. and therefore this is resolved as per January 2019 by increasing the asset exposure of a.s.r.



Composition of currency portfolio

C.2.5 Spread risk

Spread risk arises from the sensitivity of the value of assets and liabilities to changes in the level of credit spreads on the relevant risk-free interest rates. a.s.r. has a policy of maintaining a well-diversified high-quality investment grade portfolio while avoiding large risk concentrations. Going forward, the volatility in spreads will continue to have possible short-term effects on the market value of the fixed income portfolio. In the long run, the credit spreads are expected to be realized and to contribute to the growth of the own funds. The required capital for spread risk is determined by calculating the impact on the available capital due to the volatility of credit spreads over the term structure of the risk-free rate.

The required capital for spread risk is equal to the sum of the capital requirements for bonds, structured products and credit derivatives. The capital requirement depends on (i) the market value, (ii) the modified duration and (iii) the credit quality category.

Spread risk - required capital		
	31 December 2018 31 December 2017	
SCR spread risk - required capital	928 960	

The SCR spread risk per saldo decreased in 2018. On the one hand SCR spread risk increased due to a larger fixed income portfolio, mainly due to the acquisition of Generali. On the other hand SCR spread risk decreased due to (i) the shortening duration of the credit portfolio and (ii) the introduction of LAC TP.

The sensitivity to spread risk is measured as the impact of an increase of spread on loans and corporate bonds of 75 bps. The volatility adjustment is based on a reference portfolio. An increase of 75 bps of the spreads on loans and corporate bonds within the reference portfolio leads to an increase of the VA with 20 bps in 2018 (2017: 21 bps).

Solvency II sensitivities - spread risk						
Effect on: Available capital		Required capital		Ratio		
Scenario (%-point)	31 December 2018	31 December 2017	31 December 2018	31 December 2017	31 December 2018	31 December 2017
Spread +75bps/VA +20/21bps	+13	+12	+10	+3	+24	+15

Within this scenario another scenario becomes dominant causing another correlation matrix appiclable. As a result intrest rate risk goes down.

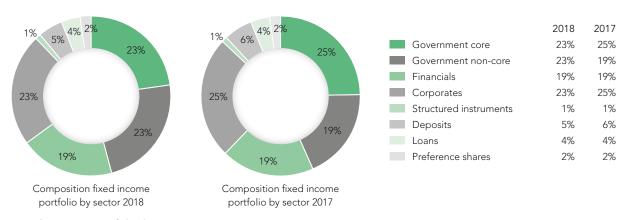
Composition of fixed income portfolio

Spread risk is managed on a portfolio basis within limits and risk budgets established by the relevant risk committees. Where relevant, credit ratings provided by the external rating agencies are used to determine risk budgets and monitor limits. A limited number of fixed-income investments do not have an external rating. These investments are generally assigned an internal rating. Internal ratings are based on methodologies and rating classifications similar to those used by external agencies. The following tables provide a detailed breakdown of the fixed-income exposure by (i) rating class and (ii) sector. Assets in scope of spread risk are, by definition, not in scope of counterparty default risk.

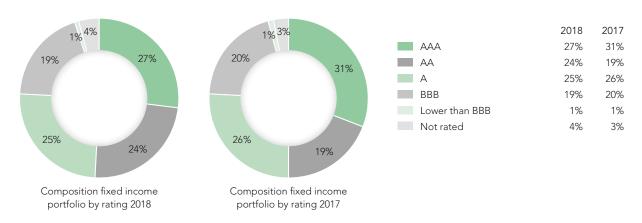
The total exposure of assets in scope of spread risk is € 20,798 million (2017: €19,066 million). The increase of the portfolio is mainly due to the acquisition of Generali. The portfolio decomposition is similar to 2017, except:

- the relatively amount of core and non core government bonds decreased and the relatively amount of non-core government bonds increased;
- relatively speaking, the amount of AAA has decreased and the relative amount of AA has increased.

Fixed income portfolio by sector



Fixed income portfolio by rating



C.2.6 Market risk concentrations

Concentrations of market risk constitute an additional risk to an insurer. Concentration risk is the concentration of exposures to the same counterparty. Other possible concentrations (region, country, etc.) are not in scope. The capital requirement for concentration risk is determined in three steps:

- 1. determine the exposure above threshold. The threshold depends on the credit quality of the counterparty;
- 2. calculation of the capital requirement for each counterparty, based on a specified factor depending on the credit quality;
- 3. aggregation of individual capital requirements for the various counterparties.

According the spread risk module, bonds and loans guaranteed by a certain government or international organization are not in scope of concentration risk. Bank deposits can be excluded from concentration risk if they fulfill certain conditions.

Concentration risk - required capital		
	31 December 2018	31 December 2017
SCR concentration risk - required capital	147	15

In order to avoid concentrations in a single obligor, a.s.r. applies a limit on maximum exposure for (i) issuers with a single A rating and higher and (ii) for issuers with a BBB rating on group level. The limits apply to the total investment portfolio, where government bonds are not included, which is consistent with Solvency II. Beside the limits on single obligors, a.s.r. applies also limits on the total level of the required capital for market risk concentrations for a.s.r. leven.

The required capital for market risk concentrations increased due to an increase in short term deposits received as collateral for the interest rate derivatives.

Counterparty default risk reflects possible losses due to unexpected default or deterioration in the credit standing of counterparties and debtors. Counterparty default risk affects several types of assets:

- Mortgages;
- Savings-linked mortgage loans;
- Derivatives;
- Reinsurance;
- Receivables;
- Cash and deposits.

Assets that are in scope of spread risk are, by definition, not in scope of counterparty default risk and vice versa. The Solvency II regime makes a distinction between two types of exposures:

- Type 1: These counterparties generally have a rating (reinsurance, derivatives, current account balances, deposits with ceding companies and issued guarantee (letter of credit). The exposures are not diversified.
- Type 2: These counterparties are normally unrated (receivables from intermediaries and policyholders, mortgages with private individuals or SMEs). The exposures are generally diversified.

The total capital requirement for counterparty risk is an aggregation of the capital requirement for type 1 exposure and the capital requirement for type 2 exposure by taking 75% correlation.

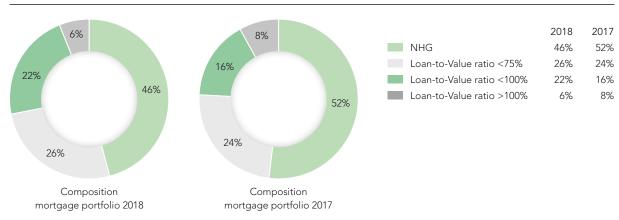
Counterparty default risk - required capital

	31 December 2018	31 December 2017
Туре 1	165	152
Туре 1 Туре 2	292	373
Diversification (negative)	-27	-28
Total	430	497

The increase of counterparty default risk is almost entirely due to the increase of Type 1 risk. This is the result of (i) the increased cash position and (ii) the derivative portfolio

C.3.1 Mortgages

Mortgages are granted for the account and risk of third parties and for a.s.r.'s own account. The a.s.r. portfolio consists only of Dutch mortgages with a limited counterparty default risk. The fair value of a.s.r.'s mortgage portfolio was € 7,286 million at year-end 2018 (2017: € 6,984 million).



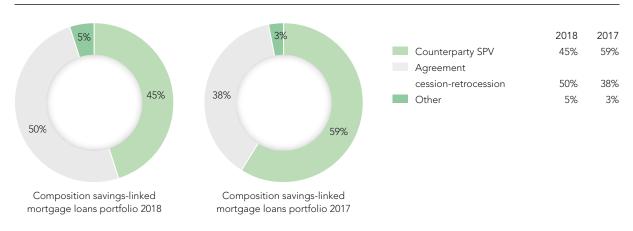
Composition mortgage portfolio

The Loan-to-Value ratio is based on the value of the mortgage according Solvency II principals with respect to the a.s.r. leven calculated collateral.

The default percentage (i.e. the percentage of mortgages which is in arrears for over three months) has decreased from 0.21% in December 2017 to 0.10% in December 2018. This drop is a consequence of the improved economic circumstances and of the organization of preventive management, whereby the flow of short-term arrears to longer delays could be reduced.

C.3.2 Savings-linked mortgage loans

The counterparty default risk of the savings-linked mortgage loans ("Spaarlossen") depends on the counterparty. For 45% of the portfolio, the counterparties are Special Purpose Vehicles. The risk is limited due to the robust quality of the mortgages in the Special Purpose Vehicles in combination with the tranching. a.s.r. has a cession-retrocession agreement with the counterparty for 50% of the portfolio, for which the risk is limited. Effectively, a.s.r. receives the underlying mortgage loans as collateral, mitigating the counterparty default risk of the savings-linked mortgage loans.



Composition savings-linked mortgage loans portfolio

C.3.3 Derivatives

OTC derivatives are primarily used by a.s.r. leven to manage the interest-rate risks incorporated into the insurance liabilities. Interest-rate derivatives are traded with a well-diversified and qualitative dealer panel with whom there is an established International Swaps and Derivatives Association (ISDA) contract and a Credit Support Annex (CSA) in place. These CSAs include specific agreements on the exchange of collateral limiting market and counterparty risk. The outstanding value of the interest rate derivative positions is matched by collateral received from eligible counterparties, minimizing the net counterparty default risk.

C.3.4 Reinsurance

When entering into reinsurance contracts for fire and catastrophe, a.s.r. requires the counterparty to be rated at least single A. With respect to long-tail business and other sectors, the minimum permitted rating is single A.

Composition reinsurance counterparties by rating

	31 December 2018	31 December 2017
AAA	0%	0%
AA	100%	100%
A	0%	0%
NR	0%	0%

The table above shows the exposure to reinsurers per rating. The total exposure to reinsurers at year-end 2018 was € 170 million (2017: € 180 million).

C.3.5 Receivables

Composition receivables

	31 December 2018	31 December 2017
Policyholders	109	69
Intermediaries	10	10
Reinsurance operations	11	9
Health insurance fund	-	-
Other	250	277
Total	381	365

C.3.6 Cash and cash equivalents

The current accounts amounted € 1,653 million in 2018 (2017: € 1,472 million).

Composition cash accounts by rating

	31 December 2018	31 December 2017
AAA	0%	0%
AA	0%	0%
A	99%	95%
Lower than A	1%	5%

Total deposits amounted to € 320 million (2016: € 326 million).

Composition deposits by rating		
Deposits	31 December 2018	31 December 2017
Secured deposits	320	326
AAA	-	-
AA	-	-
A	-	-
Total	320	326

C.4 Liquidity risk

Liquidity risk is the risk that a.s.r. leven is not able to meet its financial obligations to policyholders and other creditors when they become due and payable, at a reasonable cost and in a timely manner. Liquidity risk is not quantified in the Solvency Capital Requirement of a.s.r. leven and is therefore separately discussed here.

a.s.r. leven recognizes different levels of liquidity management. Short-term liquidity, or daily cash management, covers the day-to-day cash requirements under normal business conditions and targets funding liquidity risk. Long-term liquidity management considers business conditions in which market liquidity risk materialises. Stress liquidity management looks at the ability to respond to a potential crisis situation as a result of a market event and an a.s.r. leven-specific event. Unexpected cash outflows could occur as result of lapses in the insurance portfolio, savings withdrawals or cash variation margin payments related to the ISDA/CSA agreements of derivatives. a.s.r. leven monitors its liquidity risk scenarios via different risk reporting and monitoring processes including daily cash management reports, cash flow forecasts and stress scenario liquidity reports.

a.s.r. leven's liquidity management principle consists of three components. First, a well-diversified funding base is necessary in order to provide liquidity for cash management purposes. A portion of assets must be invested in unencumbered marketable securities that can be used for collateralized borrowing or asset sales. Second, the strategic asset allocation should reflect the expected and contingent liquidity needs of liabilities. Finally, an adequate and up-to-date contingency liquidity plan is in place to enable management to act effectively and efficiently in times of crisis.

In managing the liquidity risk from financial liabilities, a.s.r. leven holds liquid assets comprising cash and cash equivalents and investment grade securities for which there is an active and liquid market. These assets can be readily sold to meet liquidity requirements. As at 31 December 2018, a.s.r. leven had cash (€ 1,653 million), short-term deposits (€ 1,468 million), liquid government bonds (€ 9,643 million) and other bonds and shares. Furthermore a.s.r has access to multiple committed cash facilities in order to meet its liquidity needs in times of stress.

The following table shows the contractual cash flows of liabilities (excluding insurance contracts on behalf of policyholders) broken down in four categories. For liabilities arising from insurance contracts, expected lapses and mortality risk are taken into account. Profit-sharing cash flow of insurance contracts is not taken into account, nor are equities, property and swaptions.

In 2018 the liquidity risk table has been updated for better understanding of the future cash flows. Additional time buckets were added to increase granularity. The comparative figures have been adjusted accordingly.

Contractual cashflows						
	Payable on demand	< 1 years	1-5 years	5-10 years	> 10 years	Carrying value
31 December 2018						
Financial Liabilities	3,027	283	222	206	-	3,738
Derivatives	-	153	366	324	103	429
Insurance Liabilities	-	1,481	4,576	5,697	24,736	41,036
Future interest payments	-	-	-	-	-	-
Total	3,027	1,917	5,165	6,227	24,839	45,202
31 December 2017						
Financial Liabilities	2,625	298	252	188	-	3,363
Derivatives	_	33	72	160	289	397
Insurance Liabilities	_	1,535	4,831	5,676	30,560	38,600
Future interest payments	-	-	-	-	-	-
Total	2,625	1,866	5,154	6,024	30,848	42,360

* Financial liabilities payable on demand include the liability recognised for cash collateral received under ISDAs, concluded with counterparties.

- * The related cash collateral received is recognised as cash and cash equivalents, and not part of the liquidity risk exposure table. See Chapter C.3.6 Cash and cash equivalents.
- * Expected cash flows based on assumptions made at year end 2018.

EPIFP

The expected profit included in future premiums' ("EPIFP") means the expected present value of future cash flows which result from the inclusion in technical provisions of premiums relating to existing insurance and reinsurance contracts that are expected to be received in the future, but that may not be received for any reason, other than because the insured event has occurred, regardless of the legal or contractual rights of the policyholder to discontinue the policy.

EPIFP		
	31 December 2018	31 December 2017
EPIFP	1,063	943

C.5 Operational risk

Operational risk is the risk of losses resulting from inadequate or failing internal processes, persons and systems, or from external events (including legal risk). The main areas where operational risks are incurred are operations, IT, outsourcing, integrity and legal issues.

Operational risk - required capital		
	31 December 2018	31 December 2017
SCR operational risk - required capital	162	147

The SCR for operational risk amounts to € 162 million at the end of 2018 and is determined with the standard formula under Solvency II. The operational risk is based on the basic solvency capital requirement, the volumes of premiums and technical provisions, and the amount of expenses.

C.6 Other material risks

As part of the regular ORSA process, the overall risk profile and associated solvency capital needs are assessed against a.s.r.'s actual solvency capital position. The most important risks to which a.s.r. is exposed, including risks that are not incorporated into the standard formula, are identified through a combined top-down (strategic risk assessment) and bottom-up (control risk self-assessments) approach. After assessment of the effectiveness of the mitigating measures, the risks with the highest 'Level of Concern' or 'LoC' are translated to the a.s.r. risk priorities and relevant risk scenarios for the ORSA. The following risks, outside the scope of the standard formula, are recognized by a.s.r. as being potentially material:

- Inflation risk;
- Reputation risk;
- Liquidity risk;
- Contagion risk;
- Legal environment risk;
- Model risk;
- Risks arising from non-insurance activities (non-OTSOs);
- Strategic risk;
- Emerging risk.

As part of the appropriateness assessment of the standard formula mitigating measures regarding these risks are identified and evaluated.

C.7 Any other information

C.7.1 Description of off-balance sheet positions

Not applicable for a.s.r. leven.

C.7.2 Reinsurance policy and risk budgeting

C.7.2.1 Reinsurance policy

When deemed effective in terms of capital relief versus costs incurred, a.s.r. enters into reinsurance agreements to mitigate non-life insurance risks. Reinsurance can be taken out for each separate claim (per risk), for the accumulation of claims due to natural disasters or to human actions (per event), or for both these risks.

The level of retention in the various reinsurance contracts is aligned with the size and the risk profile of the underlying portfolios, taking account of the cost of reinsurance on the one hand, and of the risk that is retained on the other. By determining the retention, the impact on the statement of financial position is taken into account as well.

To limit risk concentration, reinsurance contracts are placed with various reinsurance companies. a.s.r. requires the counterparties to be rated at least single A-. The reinsurance programme has remained largely the same as in previous years in terms of cover and limits. The most significant change in reinsured risk is the phasing out of the mass lapse cover in the next two years.

C.7.2.2 Risk budgeting

The FRC assesses the solvency position and the financial risk profile on a monthly basis. Action is taken where appropriate to ensure the predefined levels in the risk appetite statement will not be violated.

C.7.3 Monitoring of new and existing products

This paragraph contains a description of group policy, which is applicable for the solo entity. Group Risk Management, Compliance, and Legal Affairs participate in the Product Approval & Review Process Board (PARP Board). All these departments evaluate whether risks in newly developed products are sufficiently addressed. New products need to be developed in a way that they are cost efficient, reliable, useful and secure. New products must also be strategically aligned with a.s.r. leven's mission to be a solid and trustworthy insurer. In addition, the risks of existing products are evaluated, as requested by the PARP, as a result of product reviews.

C.7.4 Prudent person principle

a.s.r. leven complies with the prudent person principles as set out in Directive 2009/138/EC/article 132: Prudent person principle. The prudent person principle ensures that assets are managed on behalf of its subsidiaries, policyholders or other stakeholders in a prudent manner, and covers aspects that relate to market, credit, liquidity and operational risk. a.s.r. has mandated asr vermogensbeheer NV as their asset manager.

a.s.r. leven ensures that assets of policyholders or other stakeholders are managed in a prudent manner. a.s.r. complies with the "Prudent Person Principle" by investing only in assets and instruments which a.s.r. can adequately assess, measure, monitor, control, maintain and report the risks. All assets will be assessed against solvency criteria according to article 45 (1a).

Derivatives are only used when these contribute to a lower risk or when it can be used to manage/hedge the portfolio more efficient. Mortgages, real estate and illiquid assets, which are not traded on regulated financial markets, are limited to a prudent level.

Governance of Investments

Within the Three Lines-of-Defence model, investments are managed in the first line by asr vermogensbeheer NV, reporting to the CFO of a.s.r.

asr vermogensbeheer NV manages its investments within the boundaries of a.s.r.'s Risk Appetite Framework, Strategic Asset Allocation and its Market-Risk Budget. The Market-Risk Budget is calculated on a monthly basis by Group Balance Sheet Management (GBSM), taking into account the Risk Appetite Framework. Group Risk Management, acting as the second line of defence, is responsible for the review. Internal Audit acts as the third-line of defence.

a.s.r. has established a structure of risk committees with the objective to monitor the risk profile for a.s.r. group, its legal entities and its business lines in order to ensure that it remains within the risk appetite and the underlying risk tolerances and risk limits. When triggers are hit or likely to be hit, risk committees make decisions regarding measures to be taken, being risk-mitigating measures or measures regarding governance, such as the frequency of their meetings.

All investment related activities are performed according to mandates as set by a.s.r., clients or policyholders. Mandates for investments for own account, clients and for account of policyholders are set out in internal guidelines, in order to ensure that prudent person principles are satisfied. This should always be in line with internal policies and internal constraints (such as a.s.r.'s ESG policy) and external constraints (such as regulatory limits).

D Valuation for Solvency purposes

This chapter contains information regarding the valuation of the balance sheet items. For each material asset class, the bases, methods and main assumptions used for valuation for solvency purposes are described. Separately for each material class of assets a quantitative and qualitative explanation of any material difference between the valuation for solvency purposes and valuation in the financial statements. When accounting principles are equal or when line items are not material, some line items are clustered together.

Valuation of assets is based on fair value measurement as described below. Each material asset class is described in paragraph D.1. Valuation of technical provisions is calculated as the sum of the best estimate and the risk margin. This is described in paragraph D.2. Other liabilities are described in paragraph D.3.

Information for each material line item is based on the balance sheet below. For each line item is described:

- Methods and assumptions for valuation;
- Difference between solvency valuation and valuation in the financial statements.

The numbering of the line items refers to the comments below.

Based on the differences in this template a reconciliation is made between IFRS equity and Solvency equity.

Reconciliation IFRS balance sheet and Solvency II balance sheet

	31 December 2018		31 December 2018
Balance sheet	IFRS	Revaluation	Solvency II
1. Deferred acquisition costs	-	-	-
2. Intangible assets	26	-26	-
3. Deferred tax assets	300	-275	24
4. Property, plant, and equipment held for own use	148	-	148
5. Investments - Property (other than for own use)	1,442	-	1,442
6. Investments - Equity	4,264	4	4,268
7. Investments - Bonds	18,543	-	18,543
8. Investments - Derivatives	3,005	-	3,005
9. Unit-linked investments	7,768	2	7,770
10. Loans and mortgages	10,385	1,648	12,033
11. Reinsurance	185	6	192
12. Cash and cash equivalents	3,072	-	3,072
13. Any other assets, not elsewhere shown	535	-2	534
Total assets	49,674	1,357	51,030
14. Technical provisions (best estimates)	30,814	907	31,720
15. Technical provisions (risk margin)	-	1,611	1,611
16. Unit-linked best estimate	10,222	-2,314	7,908
17. Unit-linked risk margin	-	108	108
18. Pension benefit obligations	-	-	-
19. Deferred tax liabilities	-	-	-
20. Subordinated liabilities	-	-	-
21. Other liabilities	4,235	-	4,235
Total liabilities	45,271	311	45,582
Excess of assets over liabilities	4,403	1,045	5,448

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This chapter contains also the reconciliation between the excess of assets over liabilities to EOF.

	Gross of tax 31 December 2018
IFRS equity	4,403
Revaluation assets	
i. Intangible assets	
ii. Loans and mortgages	1,648
iii. Reinsurance recoverables	6
iv. Cash and cash equivalents	-
v. Any other assets, not elsewhere shown	
	1,655
Revaluation liabilities	1,000
i. Technical provisions (best estimates)	-907
ii. Technical provisions (risk margin)	-1,611
iii. Unit-linked best estimate	2,314
iv. Unit-linked risk margin	-108
v. Subordinated liabilities	-
vi. Other liabilities	
	-311
Total gross revaluations	1,343
tax percentage	20.5%
Total net revaluations	1,068
Revaluation tax exemptions	
i. Goodwill	-26
	-26
Solvency II equity	5,448
Own fund items	
i. Subordinated liabilities	
ii. Foreseeable dividends	
Eligible Own Funds Solvency II	5,448

D.1 Assets

Valuation of most financial assets is based on fair value. In the paragraph below, this valuation methodology is described. For different line items will be referred to this method. In this paragraph line items 1 – 15 from the simplified balance sheet above are described.

D.1.1 Fair value measurement

In accordance with the Delegated Regulation, Solvency II figures are based on fair value. In line with the valuation methodology described in article 75 and further of the Solvency II directive and articles 9 and 10, the following three hierarchical levels are used to determine the fair value of financial instruments and non-financial instruments when accounting for assets and liabilities at fair value:

Level 1: Fair value based on quoted prices in an active market

Level 1 includes assets and liabilities whose value is determined by quoted (unadjusted) prices in the primary active market for identical assets or liabilities.

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A financial instrument is quoted in an active market if:

- Quoted prices are readily and regularly available (from an exchange, dealer, broker, sector organisation, third party pricing service, or a regulatory body); and
- These prices represent actual and regularly occurring transactions on an arm's length basis.

Level 2: Fair value based on observable market data

Determining fair value on the basis of Level 2 involves the use of valuation techniques that use inputs other than quoted prices included within Level 1 that are observable for the asset or liability, either directly (that is, as prices) or indirectly (that is derived from prices of identical or similar assets and liabilities). These observable inputs are obtained from a broker or third party pricing service and include:

- Quoted prices in active markets for similar (not identical) assets or liabilities;
- Quoted prices for identical or similar assets or liabilities in inactive markets;
- Input variables other than quoted prices observable for the asset or liability. These include interest rates and yield curves observable at commonly quoted intervals, volatility, loss ratio, credit risks and default percentages.

Level 3: Fair value not based on observable market data

The fair value of the level 3 assets and liabilities are determined in whole or in part using a valuation technique based on assumptions that are not supported by prices from observable current market transactions in the same instrument and for which any significant inputs are not based on available observable market data. The financial assets and liabilities in this category are assessed individually.

Valuation techniques are used to the extent that observable inputs are not available. The basic principle of fair value measurement is still to determine a fair, arm's length price. Unobservable inputs therefore reflect management's own assumptions about the assumptions that market participants would use in pricing the asset or liability (including assumptions about risk). These inputs are generally based on the available observable data (adjusted for factors that contribute towards the value of the asset) and own source information.

D.1.2 Assets per asset category

The balance sheet reports specify different asset categories. In this section, we describe the valuation of each material asset category. The figures correspond to the extended balance sheet which has been reported as QRT S 2.01.

1. Deferred acquisition costs

a.s.r.'s accounting policy until and including 2014 was to capitalize commission fees for life insurance contracts and to amortize it over the period over which the relevant premiums are realized. With effect from 1 January 2015, all costs incurred to acquire insurance contracts (acquisition costs) are charged directly to the income statement, generally within one year.

2. Intangible assets

The intangible assets related to goodwill and other intangible assets are not recognized in the Solvency II framework and are set to nil.

3. Deferred tax assets

The basis for the DTA / DTL position in the IFRS balance sheet is temporary differences between fiscal and commercial valuation. This DTA / DTL position is the base for this line item on the Solvency II balance sheet, adjusted for Solvency II revaluations:

• The largest DTL mutation is mainly caused by the higher (valuation) mortgages and savings linked mortgages.

In accordance with the Delegated Regulation the DTA / DTL position is netted in the balance sheet. The balance sheet of a.s.r. contains a DTL.

The deferred tax effects involve a correction related to the fact that (most of) the revaluations as described in this chapter are gross of tax. The tax effect is calculated as 20,5%.

4. Property plant, and equipment held for own use

a.s.r. leven recognises property at market value, equal to Solvency II measurement.

5. Investments - Property (other than for own use)

- a.s.r. leven owns the following categories of investment property; the method for calculating their fair value has been added:
- Residential -based on reference transaction and discounted cash flow method (DCF method);
- · Retail based on reference transaction and income capitalization method;
- Rural based on reference transaction and DCF method;
- Offices based on reference transaction and DCF method;
- Other based on reference transaction and DCF method;
- Under construction based on both DCF and income capitalization method.

6. Investments - Equity

Valuation of listed equities is based on the level 1 method of the fair value hierarchy. Unlisted fixed-interest preference shares are valued based on the level 2 method of the fair value hierarchy. The valuation techniques for financial instruments start from present value calculations; derivatives are valued based on forward-pricing and swap models. The observable market data contains yield curves based on company ratings and characteristics of unlisted fixed-interest preference shares. The main non-observable market input for private equity investments is the net asset value of the investment as published by the private equity company (or partner).

Valuation of private equity investments is based on the level 3 method of the fair value hierarchy. The main non- observable market input for private equity investments is the net asset value of the investment as published by the private equity company (or partner).

7. Investments - Bonds

The valuation of these assets is consistent with the IFRS fair value hierarchy as described in paragraph D.1.1.

8. Investments - Derivatives

The valuation of these assets is consistent with the fair value hierarchy as described in paragraph D.1.1 The valuation of listed derivatives is based on the level 1 method of the fair value hierarchy. The valuation of unlisted interest rate contracts is based on the level 2 method of the fair value hierarchy. The valuation techniques for financial instruments start from present value calculations; derivatives are valued based on forward-pricing and swap models. The observable market data contains yield curves based on company ratings and characteristics of unlisted fixed-interest preference shares.

9. Unit-Linked investments

The valuation of these assets is consistent with the IFRS fair value hierarchy described in paragraph D.1.1.

10. Loans and mortgages

The valuation of loans is based on the level 2 and level 3 (mortgages) method of the fair value hierarchy. The fair value of the loans is based on the discounted cash flow method. It is obtained by calculating the present value based on expected future cash flows and assuming an interest rate curve used in the market that includes an additional spread based on the risk profile of the counterparty. This asset category includes savings linked mortgages.

Many of the savings-linked mortgages that a.s.r. leven has sold in the past were combined with a mortgage loan from an external bank. This bank has undertaken to pay mortgage interest on the savings accrued in the insurance policy. To this end, the insurer transfers the premiums to a special deposit account with the bank. According to IFRS, both the insurance policy and the loan are measured at amortized cost. For the purpose of Solvency II, they are both measured at fair value, allowing for any securities the insurer receives on the funds deposited with the bank. The liability is measured separately (in accordance with the Delegated Regulation and the guidance provided by Dutch Central Bank).

The valuation method used to determine the fair value of a.s.r. leven's mortgage portfolio bases the spread on the interest rate curve for discounting the mortgage portfolio cash flows on consumer rates. The valuation according to IFRS is based on amortized cost.

11. Reinsurance recoverables

Contracts that transfer a significant insurance risk from a.s.r. leven to third parties are accounted for as reinsurance contracts, and are classified as outgoing reinsurance.

The amounts that can be collected from reinsurers are estimated using a method that is in line with the reinsurance contract and the fair-value method for determining liabilities arising from reinsurance contracts described in Section D2.

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Assets arising from reinsurance contracts are recognized under reinsurance contracts, including current receivables from reinsurers. At each reporting date, a.s.r. leven assesses whether objective evidence of impairment exists. If a reinsurance asset is impaired, its carrying amount is reduced to its recoverable amount. Therefore, current receivables from reinsurers are valued comparable with IFRS.

12. Cash and cash equivalents

The valuation of cash and cash equivalents is based on the level 1 method of the fair value hierarchy. Cash and cash equivalents include cash in hand, deposits held at call with banks, cash collateral and other short-term highly liquid investments with original maturities of three months or less.

13. Any other assets, not elsewhere shown

The valuation of these assets is based on the IFRS fair value hierarchy as described in paragraph Section D.1.1. Other assets include different investments and interest income, property developments, tax assets and accrued assets.

D.2 Technical provisions

D.2.1 Introduction

In this section, the policies regarding methodology and assumptions for the technical provisions are described. These liabilities arise from insurance contracts issued by a.s.r. leven that transfer significant insurance risks from the policyholder to a.s.r. leven.

In this paragraph line items 14-18 from the simplified balance-sheet above are described.

D.2.2 Technical provisions methods

In this paragraph the methodology for calculating the technical provisions is described.

14 and 16. Technical Provisions and Unit - linked (best estimates)

Intrinsic Value

The intrinsic value is the net present value of projected cash flows from insurance contracts, i.e. benefits and claims, profitsharing liabilities and costs less premiums. These cash flows are estimated using best estimate assumptions with respect to mortality, claims experience, lapse, expense and inflation. Where applicable, the participating features of the insurance contracts, such as profit sharing, are taken into account in the future cash flows.

The cash flows are discounted using the term structure of risk-free interest rates (including volatility adjustment) as prescribed under Solvency II for the valuation of underwriting liabilities. The best estimate assumptions regarding mortality and longevity include recent trend assumptions for life expectancy in the Netherlands, as provided by the Dutch Actuarial Association.

In unit-linked contracts, the best estimate equals the fund value of the contract less the net present value of future margins on mortality and expense. For unit-linked contracts with a guaranteed minimum benefit on maturity the best estimate is increased with the loss on maturity date because of this guarantee if a loss occurs in the best estimate scenario.

Time value of options and guarantees

The TVOG is calculated using stochastic techniques with respect to interest scenario's. The time value of options and guarantees (TVOG) – payment guarantees connected to profit-sharing liabilities in particular – is added to the expected value.

The valuation of a guarantee on maturity value in some index-linked and unit-linked policies is calculated policy by policy, with a closed form methodology that is based on the stochastic Black Scholes formula. The TVOG is equal to this value less the intrinsic value that has already been recognized in the expected value.

The value of other options and guarantees (for policies with profit sharing) is based on 1.000 interest scenarios. This value is explicitly determined using stochastic methods and concerns the costs associated with the granted financial options and guarantees, such as profit-sharing, to the extent that they have not been recognized in the expected value. In other words, this concerns the time value of these options; their intrinsic value has already been recognized in the expected value.

15. and 17. Technical Provisions and Unit - linked (risk margin)

The risk margin is determined using the Cost of Capital (CoC) method, using a Cost-of-Capital rate of 6%, in line with the Delegated Regulation. The risk margin is based on the Solvency Capital Requirement (SCR) of all insurance risks,

operational risk, unavoidable market risk (excluding interest rate risk) and counterparty default risk for reinsurance arrangements, SPVs and other material exposures which are closely related to insurance liabilities.

The SCR's involved are determined at the valuation date under the assumption that no VA is applicable. They are projected separately into the future using suitable risk drivers per risk group. These SCRs are aggregated in each future year, making allowance for the correlations between risks using correlation factors as define in the standard model.

In determining the risk margin, allowance is also made for diversification benefits between risk groups within a legal entity.

The risks that are factored into the risk margin are mortality risk, longevity risk, disability-morbidity risk, lapse risk, catastrophe risk, expense risk and operational risk.

Best estimate assumptions

The valuation date is the end date of the reporting period and the starting point for projecting. Assumptions are calculated on the presumption that a.s.r. will pursue its business as a going concern reflecting the organization's or industry's most realistic view.

Assumptions are considered to be best estimates when they represent the mean or probability-weighted average of possible outcomes of an uncertain event. The assumptions distinguish between economic assumptions and operating assumptions:

Economic assumption

Volatilities and correlations:

- The volatilities are set for each asset category: equities, property and fixed income.
- The correlations are set between each of the asset categories.

Expense inflation

Inflation is used as long-term expense inflation. Inflation is expressed as a curve and based on available and liquid market instruments for price inflation plus a weighted spread for the main types of expenditures. The reference for the inflation curve is based on the European inflation swap sourced from Bloomberg with ticker EUSWIT.

Spreads for most categories are based on their relative size in the Dutch Harmonized Index for Consumer Prices (HICP). The spread for the category salaries is based on the historical wage inflation in the Dutch insurance industry over the last ten years. The inflation curve is set every quarter. At year end, the inflation curve is based on a reference date. The spreads are set at least once a year. At the valuation date, 31 December 2018, the expense inflation was set 1.65% (inflation curve: 1.60%; spread: 0.05%).

Operating assumptions

Operating or non-economic assumptions generally capture risks directly related to movements and uncertainty as a result of underwriting. Operating assumptions are generally based on analyses of recent experience. The goal is to make a best estimate of future experience, but staying cautious if there is broad scope for judgment. Operating assumptions are specific to the entity and rely on a combination of analysis of past experience and assessments of future trends. The operating assumptions are updated once a year. Operating assumptions are set by the product lines.

Mortality, longevity

The principles underlying mortality are two-fold: assumptions for developments in the mortality of the average population and assumptions for developments in the difference between the mortality rate of insured persons and the general population (mortality experience).

a.s.r. leven bases its assumptions for developments in the mortality rate of the general population on recent external life expectancy tables. As of the third quarter of 2018 this is based on "Prognosetafel AG 2018".

a.s.r. leven considers Prognosetafel AG 2018 the best table for forecasting the mortality rate of the Dutch population. It is the most recent life expectancy table and it is based on the latest academically validated techniques.

Depending on the portfolio, the experience factors for the mortality rate among insured persons are derived from market data or own portfolio observations. These factors, which are broken down by age and gender, concern the mortality rate measured in insured amounts.

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A policy is assumed to become paid-up when the policyholder decides to terminate the contractual payments before the end of the policy term. A policy is assumed to be surrendered/lapsed when the policyholder decides to terminate the contract before the end of the policy term and agrees to receive the applicable contractually agreed surrender benefits.

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In the product lines Life Individual and Funeral, the principles for lapses and early surrenders were determined based on:

• the elapsed duration of the policy.

Surrenders, lapses, paid-up

• a series of historical observations for each system of records and by type of product.

On this basis, frequencies were extrapolated for the surrender of regular premium policies, conversion of regular premium policies into paid-up policies, surrender of paid-up policies and surrender of single premium policies. The surrender pattern for individual unit-linked portfolios has been subject to a different pattern since the miss-selling of such policies came to light in 2010. The determination of best estimate lapse rates for unit linked policies is based on the usual statistical methods, including back testing, taking into account the increased lapse after 2010 but with special attention to the most extreme years in the historical data.

Pension policies do not usually lend themselves to lapses and early surrender. The pension contracts and/or master agreements that a.s.r. leven signs with employers can be terminated only at the expiry date of the contract. Only then can a policy be renewed, converted into a paid-up policy or transferred.

Expenses

The total of expenses allocated to modelled insurance activities in scope represents the actual expenses for the reporting period. They include direct operating expenses, local overhead expenses as well as investment expenses and group head office expenses. Expenses allocated to modelled business covers all expenses incurred to manage the total business, including investments in current systems required to support that business.

To determine the investment cost assumption, we start with the total actual investment costs, as known for a.s.r. group. The total investment costs of a.s.r. group are broken down into various activities and assigned to a.s.r. leven. The total costs of a.s.r. leven are then divided among the various product groups, whereby the starting point is that the distribution takes place on the basis of the extent to which the investments in characteristics match the obligations (BEL and RM). The investment cost parameter is then used to project the investment costs to the future. Investment expenses related to managing assets that have already been deducted from related service fees are not included in the expenses. Investment expense that is already included in the valuation of the asset, which is the case for mortgages, are not included in the valuation of the best estimate.

The maintenance expense assumption is set before information about the actual expenses is available. The assumption is based on available data from the first two quarters of recent year and an estimate of the expenses incurred in the remaining period of most recent year. The expenses related to the insurance portfolio are divided between acquisition and maintenance expenses according to their nature. Projected maintenance expenses include expense inflation.

The maintenance costs are divided into fixed costs, partially variable costs, variable costs and highly variable costs. Highly variable costs are considered to be scalable. On the other hand, the fixed costs are considered not to be scalable with a maximum. It is not realistic to assume that the remaining policies have to carry exponential costs. It is not possible to use a fixed component combined with a maximum in the used projection system. Therefore, the choice has been made to include the fixed component using a fixed spread which has been added to the inflation rate. These fixed spreads are determined for every product line separately. The ratio of the fixed to variable costs, the maximum of the fixed costs and the run-offs of the portfolio are used to determine these fixed spreads.

Expected or anticipated expense reductions, e.g. because of productivity gains, are excluded from the calculations beyond what has been achieved in the current reporting period. Recurring expenses include development costs when they are recurrent and arise to safeguard the ability of the total business to continue as a going concern. These development cost are typically run off over a shorter term than other recurring expenses. These current costs are included for the estimated duration.

Expense allocation

Costs are allocated in line with IFRS financial statements. Costs are carefully allocated using cost drivers. This also applies to the cost allocations to the various products. Cost allocation is documented and reported.

Profit sharing/bonus rate

Some of the portfolio is subject to profit-sharing. The portfolio has been divided into groups with similar profit-sharing systems and rules. The time value and intrinsic value of any profit-sharing option is calculated for each group (model point).

Renewal assumptions

The renewal assumption for the collection commission has been determined for each portfolio based on the most recent available accounting records. The recognized collection commission is divided by gross premiums.

Morbidity and Disability

The assumption for disability-morbidity has been determined for each portfolio based on the most recent available accounting records and prior years. The provision, premiums, benefits and results relating to disability-morbidity have been used to define the assumption.

Risk-free yield curve

The basis for the reference rate of the best estimate is the swap rate at the date of valuation (31 December 2018). The following adjustments have been made to the swap curve:

- Reduction by ten basis points to account for counterparty default risk (31 December 2018: 10 bps);
- Extrapolation from year 20 to the ultimate forward rate of 4.05% in year 60 using the Smith-Wilson extrapolation method;
- Inclusion of a volatility adjustment of 24 basis points, as provided by EIOPA, to the zero rates for the first 20 years (31 December 2017: volatility adjustment 4 bps).

Impact volatility adjustment

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a.s.r. leven applies the volatility adjustment for discounting cash flows to determine the best estimate and in determining the Required Capitals for the SCR. In the next table the impact is shown of this volatility adjustment on the financial position and own funds of a.s.r.

Impact of applying VA =	= 0 bps					
	VA = 24 bps	= 24 bps VA = 4 bps VA = 0 bps		Imp	pact	
	31 December 2018	31 December 2017	31 December 2018	31 December 2017	31 December 2018	31 December 2017
ТР	41,347	39,418	42,365	39,577	1,018	159
SCR	2,694	2,741	2,769	2,754	74	13
MCR	1,109	1,053	1,141	1,058	32	5
Basic own funds (total)	5,448	5,101	4,639	4,982	-809	-119
Eligible own funds	5,448	5,101	4.639	4.954	-809	-147

Table: impact of applying VA = 0 bps

D.2.3 Level of uncertainty

a.s.r. leven distinguishes between two sources of uncertainty with regard to the level of the technical provisions. These sources are model risk and process risk. The uncertainty associated with these risks has been mitigated as described below.

Process risk

The process risk is mitigated using the Management in Control framework (MIC), which creates a reasonable degree of assurance as to the reliability of financial reports. Key controls have been identified and implemented for the calculation process. In addition, the effectiveness of the MIC framework is verified by an independent party and supplementary checks are performed where needed. As part of MIC or the additional checks, the four-eye principle has demonstrably been applied to the calculation of the technical provision.

Model risk

The second risk that a.s.r. has identified in relation to the technical provisions is model risk. Regular procedures have provided adequate certainty with regard to this risk. To illustrate, a model validation process mitigates the risk of material misstatements or that key facts have been omitted. In addition, FRM, in its role as the second line of defence, performs an independent internal review of the technical provisions as described in the previous phase.

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D.2.4 Reinsurance and special purpose vehicles (SPVs)

Contracts that transfer a significant insurance risk from a.s.r. leven to third parties are accounted for as reinsurance contracts, and are classified as outgoing reinsurance.

a.s.r. leven has reinsured a substantial part of all underwriting risk of a certain group pension contract on a proportional basis. In addition, a reinsurance on a stop-loss basis is applicable to the risk of a mass lapse event for a selected part of the portfolio with considerable lapse risk. A claim is paid out by the reinsurer if the one-year mass lapse is more than 20% and less than 40%.

a.s.r. leven does not make use of special purpose vehicles (SPVs).

D.2.5 Technical provisions

In this table a reconciliation is made between the Solvency II and the IFRS valuation of provisions. Solvency figures are part of the Balance Sheet S.02.01. The next paragraph describes a brief explanation of these differences.

Technical provisions: IFRS versus Solvency II			
31 December 2018	IFRS	Revaluation	Solvency II
Life			
Best estimate	-		31,720
Risk margin	-		1,611
Technical provision	30,814	2,518	33,331
Index-linked and unit-linked			
Best estimate	-		7,908
Risk margin	-		108
Technical provision	10,222	-2,206	8,016

D.2.6 Reconciliation between IFRS and Solvency II

Under Solvency II, the technical provisions are calculated using a different method compared to IFRS. In this section the reconciliation between IFRS and Solvency II is described per business line.

Life

The IFRS technical provisions are determined with assumptions that are equal to the assumptions underlying the premium. For longevity risk additional provisions are set up. Also under IFRS provisions are set up for realized capital gains, interest rate swaptions and shadow accounting (unrealized gains on bonds). In case that the policy-duration exceeds the length of the premium-paying period, a provision for administrative expenses is set up for the period where no premiums are due."

The Solvency II provision consists of a best estimate and a risk margin. The best estimate includes a time value of option and guarantees with respect to profit sharing. The best estimate is determined on best estimate assumptions and covers future benefits and future expenses to the extent that they are not covered by future premiums.

Index-linked and unit-linked

The technical provision for unit-linked policies under IFRS equals the fund value of the underlying assets of the units. Extra provisions are set up in case of minimum guarantees on the maturity-value provided by a.s.r. leven and for the transparency issue.

The Solvency II technical provision consist of the fund value less the net present value of the best estimate value of the future profits. For policies where a guarantee with respect to the maturity-value is given, the value of the guarantee is determined on a market consistent basis. Also for the transparency issue some provision is set up.

Technical provisions Pension scheme a.s.r.

For a.s.r. leven the pension scheme of a.s.r.-employees is involved on the balance sheet under technical provision life. On a.s.r. group level this scheme is mentioned as an employee benefit obligation.

D.3 Other liabilities

D.3.1 Valuation of other liabilities

In line with the valuation of assets, the accounting principles for other liabilities used in the Pillar III reports are generally also based on the IFRS as adopted by the EU. Any differences between the valuation methods for IFRS and Solvency II purposes are addressed in detail per liability category. In this paragraph line items 20 – 23 from the simplified balance-sheet above are described.

18. Pension benefit obligations

Not applicable for a.s.r. leven.

On group level a.s.r. has in place a number of defined benefit plans for own staff. Current service costs for the OTSO's are included in operating expenses.

19. Deferred tax liabilities

See 3. Deferred tax assets.

20. Subordinated liabilities

Not applicable for a.s.r. leven.

21. Other liabilities

Other Liabilities contains different small line items:

Debts owed to credit institutions

The valuation of these liabilities follows the Solvency II fair value hierarchy as described in paragraph D.1.1

Financial liabilities other than debts owed to credit institutions

The valuation of these liabilities follows the IFRS fair value hierarchy as described in paragraph D.1.1

Subsequent valuation has to be consistent with the requirements of Article 75 of the Solvency II directive. Therefore, no subsequent adjustments to take account of the change in own credit standing shall take place. However, adjustments for changes in the risk-free rate must be accounted for subsequently. This means that the subordinated loans are discounted using the risk-free rate plus a credit spread at inception of the liability.

Insurance and Intermediaries payables

The valuation of these liabilities follows the Solvency II fair value hierarchy as described in paragraph D.1.1 This category is subject to the same valuation as the asset category Cash and Cash equivalents.

Trade payables (non-insurance)

The valuation of these liabilities follows the Solvency II fair value hierarchy as described in paragraph D.1.1 This category is subject to the same valuation as the asset category receivables.

Any other liabilities not disclosed elsewhere

The valuation of these liabilities follows the Solvency II fair value hierarchy as described in paragraph D.1.1. This item consists primarily of tax payables.

Contingent liabilities

Contingent liabilities are defined as:

- a possible obligation depending on whether some uncertain future event occurs, or
- a present obligation but payment is not probable or the amount cannot be measured reliably.

Contingent liabilities are recognized on the IFRS balance sheet if there is a probability of >50% that the contingent liability leads to an "outflow of resources". These liabilities are also recognized on the Solvency II balance sheet.

Solvency II prescribes that all contingent liabilities be recognized on the Solvency II balance sheet. This covers cases where the amount cannot be measured reliably or when the probability is <50%. For these cases, a regular process is in place to determine whether contingent liabilities should be recognized on the Solvency II balance sheet.

The a.s.r. leven Solvency II capital ratio does not include contingent liabilities.

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D.3.2 Reconciliation from Solvency II equity to EOF

The differences described in the above sections are the basis for the reconciliation of IFRS equity to equity Solvency II. To reconciliate from Solvency II Equity to EOF, the following movements are taken into consideration:

Subordinated liabilities

Not applicable for a.s.r. leven.

Foreseeable dividends and distributions

Not applicable for a.s.r. leven.

Deductions for participations in financial and credit institutions

Participations in financial and credit institutions exceeding 10% are not supervised by the Solvency II framework and are therefore excluded from the eligible own fund items.

Tier 3 Limitations

In accordance with the Delegated Regulation EOF is divided in tiering components. There are boundary conditions related to the size of these components. Excess of this limits results in capping of EOF. For a.s.r. leven capping does not apply per Q4 2017.

D.4 Alternative methods for valuation

a.s.r. leven does not apply alternative methods for valuation.

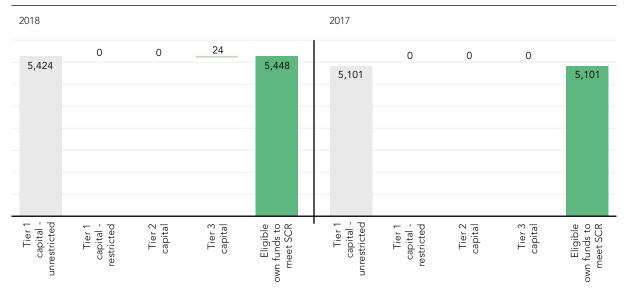
D.5 Any other information

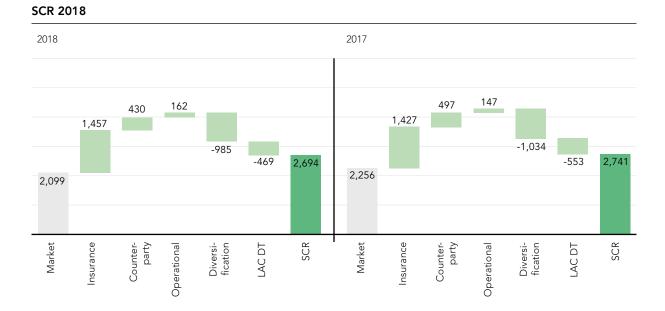
Not applicable for a.s.r. leven.

E Capital management

Key figures

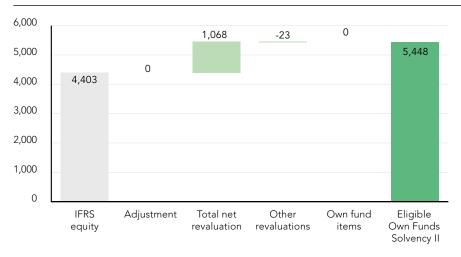
Eligible own fund 2018





The solvency ratio stood at 202% as at 31 December 2018 based on the standard formula as a result of \notin 5,448 million EOF and \notin 2,694 million SCR.

Reconciliation total equity IFRS vs EOF Solvency II



An extensive explanation of the reconciliation from IFRS equity to Solvency II eligible own funds was presented in section D.3.2.

E.1 Own funds

E.1.1 Capital management objectives

Management

Overall capital management is administered at group level. a.s.r. currently plans to consider investing capital above the Solvency II ratio (calculated based on the standard formula) of 160% (management threshold level) with the objective of creating value for its shareholders. If and when a.s.r. operates at a level considerably above the management threshold level and it believes that it cannot invest this capital in value-creating opportunities for a prolonged period of time, it may decide to return (part of this) capital to shareholders. If a.s.r. chooses to return capital, it plans to do so in a form that is efficient for shareholders at that time. a.s.r. actively manages its in-force business, which is expected to result in free capital generation over time. Additionally, business improvement and balance sheet restructuring should improve the capital generation capacity while advancing the risk profile of the company. The legal entities are individually capitalised and excess capital over management's targets for the legal entities is intended to be up-streamed to the holding company as far as is needed for amongst others covering external dividend, coupon payments on hybrids/senior financing instruments and holding costs and in so far the local regulations and the internal risk appetite statement allow.

Objectives

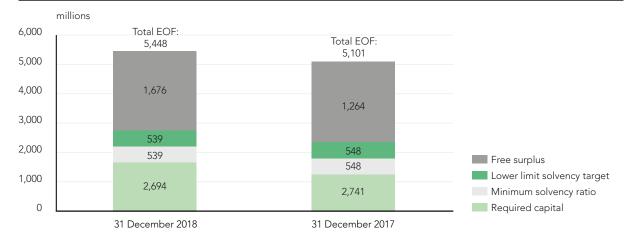
The group is committed to maintain a strong capital position in order to be a robust and sustainable insurer for its policyholders and other stakeholders. The objective is to maintain a solvency ratio well above the minimum levels as defined in the risk appetite statements and above the relevant management threshold levels. Sensitivities are periodically performed for principal risks and annual stress tests are performed to test a.s.r.'s robustness to withstand moderate to severe scenarios. An additional objective is to achieve a combination of a capital position and a risk profile that is at least in line with a "single A" rating by Standard & Poor's.

The SCR is reported on a quarterly basis and proxies are made on both a monthly and weekly basis. The internal minimum solvency ratio for ASR Leven as formulated in the risk appetite statement is 120%. The lower limit solvency target is 140%. The management threshold level for the solvency ratio is safely above 160%. The solvency ratio stood at 202% at 31 December 2018, which was comfortably above the internal requirement of 120% and the management threshold level of 160%.

In accordance with a.s.r.'s dividend policy, the liquidity of the underlying entities is not taken into account for the liquidity position of the group. However, the capital is recognized in the capital position of the group, since a.s.r. has the ability to realize the capital of this OTSO, for example by selling the entity.

Business and performance

The table below shows how the eligible own funds of ASR Leven relate to the different capital targets.



Market value own funds under SCR

E.1.2 Tiering own funds

The table below details the capital position of a.s.r. leven as at the dates indicated. With respect to the capital position, Solvency II requires the insurers to categorize own funds into the following three tiers with differing qualifications as eligible available regulatory capital:

- Tier 1 capital consists of Ordinary Share Capital and Reconciliation reserve;
- Tier 2 capital consists of ancillary own funds and basic Tier 2. Ancillary own funds consist of items other than basic own funds which can be called up to absorb losses. Ancillary own fund items require the prior approval of the supervisory authority. a.s.r. leven has no ancillary own fund items;
- Tier 3 consists of Deferred tax assets.

The rules impose limits on the amount of each tier that can be held to cover capital requirements with the aim of ensuring that the items will be available if needed to absorb any losses that might arise.

Eligible Own Funds to meet the SCR

Eligible own funds to meet SCR	5,448	5,101
Tier 3 capital	24	-
Tier 2 capital	-	-
Tier 1 capital - restricted	-	-
Tier 1 capital - unrestricted	5,424	5,101
	31 December 2018	31 December 2017

E.1.3 Own funds versus MCR

The MCR calculation is based on the standard formula.

Eligible Own Funds to meet the MCR

	31 December 2018	31 December 2017
Tier 1 capital - unrestricted	5,424	5,101
Tier 1 capital - restricted	-	-
Tier 2 capital	-	-
Tier 3 capital	-	-
Eligible own funds to meet MCR	5,424	5,101

According to Delegated Regulation article 248 to 251 the MCR (€ 1,109 million) of a.s.r. leven is calculated as a linear function of premiums, technical provisions and capital at risk.

E.1.4 Description of grandfathering

There is no grandfathering at a.s.r. leven.

E.2 Solvency Capital Requirement

Capital requirement

The required capital stood at \notin 2,694 million per 31 December 2018. The required capital (before diversification) consists for \notin 2,099 million out of market risk, \notin 430 million of counterparty risk and the insurance risk amounted to \notin 1,457 million as per 31 December 2018.

a.s.r. leven complied during 2018 with the applicable externally imposed capital requirement. The table below presents the solvency ratio as at the date indicated.

Solvency II ratio		
	31 December 201	8 31 December 2017
Eligible Own Funds Solvency II	5,44	3 5,101
Required capital	2,694	4 2,741
Solvency II ratio	202%	6 186%

Under Solvency II it is permitted to reduce the required capital with the mitigating tax effects resulting from a 1-in-200-year loss ("Shock loss"). There is a mitigating tax effect to the extent that the Shock loss (BSCR + Operational risk) is deductible for tax purposes and can be compensated with taxable profits. This positive tax effect can only be taken into account when sufficiently substantiated ('more likely than not'). a.s.r. included a beneficial effect on its solvency ratio(s) due to the application of the LAC DT. The LAC DT benefit is \in 469 million (2017 \in 553 million).

Relevant regulation and current guidance (Delegated Regulation, Level 3 guidelines, Dutch Central Bank Q&As and IAS 12) is taken into account in the development of the LAC DT methodology.

Since 2016 a.s.r. uses an advanced model for the LAC DT of a.s.r. leven and a 'basic' model for the other OTSO's. In the advanced model also future fiscal profits are used to underpin the LAC DT, while in the basic model no future profits are used. Both models are and will be updated in case constrained by additional guidance or legislation provided. Currently the discretionary profit sharing element in the best estimate liabilities is not sensitive to stress scenarios. This is caused by the fact that the discretionary element is a manual correction. In the determination of the SCR the discretionary element is not reflected. Starting from 2018Q4 a.s.r. will start taking into account this discretionary element in de SCR. This will be reflected in the loss absorbing capacity of technical provisions (LAC TP).

The a.s.r. leven solvency ratio does not include any contingent liability potentially arising from any of the current and/ or future legal proceedings in relation to unit-linked insurance contracts or for other products sold, issued or advised on by a.s.r. leven's insurance subsidiaries in the past, the reason being that it is impossible at this time to make reliable estimates of the number of expected proceedings, possible future precedents and the financial impact of current and possible future proceedings.

Standard & Poor's confirmed the single A rating of ASR Levensverzekering N.V. on August 20, 2018.

Ratings				
Ratings Standard & Poor's	Туре	Rating	Outlook	Rating & outlook since
ASR Levensverzekering N.V.	CCR	A	Stable	23 August 2012
ASR Levensverzekering N.V.	IFRS	А	Stable	23 August 2012

CCR: counterparty credit rating

IFSR: insurer financial strength rating

Rating reports can be found on the a.s.r. website: http://asrnl.com/investor-relations/ratings.

E.3 Use of standard equity risk sub-module in calculation of Solvency Capital Requirement

Transitional measure for equity risk applies for shares in portfolio at 01-01-2016. The SCR equity shock is 22% at 01-01-2016, and linear increasing to (i) 39% + symmetric adjustment for type I shares and (ii) 49% + symmetric adjustment for type II shares

E.4 Differences between Standard Formula and internal models

a.s.r. solvency is governed by a standard formula, rather than the self-developed internal model. The Executive Board believes that this should enhance transparency and consistent interpretation.

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

As a.s.r. leven has not faced any form of non-compliance with the Minimum Capital Requirement or significant non-compliance with the Solvency Capital Requirement during the reporting period or at the reporting date, no further information is included here.

E.6 Any other information

E.6.1 Dividend policy and capital management actions

The group has formulated its dividend policy in line with its current strategy. a.s.r. group intends to pay an annual dividend that creates sustainable long-term value for its shareholders. a.s.r. group aims to operate at a solvency ratio, calculated according to the standard formula, above a management threshold level. This management threshold level is currently defined is safely above 160% of the Solvency Capital Requirement ('SCR'). In general, it expects to not pay cash dividends if the group level solvency ratio (calculated according to the standard formula) falls below 140%. a.s.r. group currently intends to consider investing capital above the solvency ratio (calculated according to the standard formula) of 160% with the objective of creating value for its shareholders. If and when a.s.r. group operates at a certain level safely above the 160% (not driven by non-economic developments), and a.s.r. group may decide to return (part of this) capital to shareholders. If a.s.r. group elects to return capital, it intends to do so in the form that is efficient for shareholders at that time. a.s.r. intends to pay \in 245 million dividends over full year 2018 (including interim dividend). As from 2018, a.s.r. pays an interim dividend.

In June 2018, a.s.r. group paid € 229.7 million in cash dividend over the financial year 2017, representing a payout ratio of 45% in line with our dividend policy. Furthermore, a.s.r. paid € 91.65 million in interim dividend in September 2018. This interim dividend relates to the financial year 2018 and is determined as 40% of the total dividend over the previous financial year (in casu 2017). Dividends paid out by a.s.r. group is financed by the underlying entities with exception of ASR Basis Ziektekostenverzekeringen N.V.

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