

SFCR 2016

Solvency and Financial Condition Report Munich Re (Group)



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This document is a translation of the original German version and is intended to be used for informational purposes only. While every effort has been made to ensure the accuracy and completeness of the translation, please note that the German original is binding.

Executive summary

Part		Page
A – Business and performance	We describe the business model, including the lines of business and regions in which Munich Re operates, and the main differences between the measurement principles used to determine consolidated data for the solvency balance sheet and the IFRS balance sheet. We analyse and comment on underwriting performance in the reporting year, including the investment result. Other activities include our activities as lessor and lessee.	5–18
B – System of governance	Munich Re has a system of governance that is adequate for the nature, scale and complexity of the risks inherent in its business. The remuneration schemes and requirements for the persons who effectively run the undertaking are in line with our business and risk management strategy. The key functions – risk management function, compliance function, internal audit function and actuarial function – have been implemented pursuant to the applicable laws and regulations. The risk management system, including the own risk and solvency assessment (ORSA), is closely integrated with Group-wide planning, risk strategy and decision-making processes. Processes that are subject to material risks are documented and reviewed on a regular basis. The internal control system is functional. The outsourcing of operational activities and functions is monitored.	19–41
C – Risk profile	For every risk category that we quantify in our internal risk model, there is a description and assessment of the risks. The material risks of Munich Re comprise underwriting risks in the area of property-casualty business and market risks from investments. In property-casualty business, the predominant underwriting risks are large risks and accumulation risks from natural hazards. In terms of market risks, Munich Re is exposed in particular to interest-rate risk, currency risk and equity risk. We invest our assets in accordance with the prudent person principle (PPP). We use appropriate limit and early-warning systems to manage risks and limit risk concentrations. Risk is mitigated by means of reinsurance and retrocession and through the transfer of risk to the capital markets, for instance using derivative financial instruments.	43–55
D – Valuation for solvency purposes	In this section, we provide the Solvency II values for our assets, technical provisions and other liabilities. We compare this valuation with Munich Re's measurement in accordance with IFRS, broken down into the individual balance sheet items. Our focus is on presenting the differences between valuation methods.	57–83
E – Capital management	We pursue active capital management, which ensures that our capitalisation is needs-based and risk-commensurate. The composition of our eligible own funds is itemised in detail, and an explanation of the differences between the standard formula and the internal model used at Munich Re is provided. Our eligible own funds total €48.2bn. Munich Re's solvency capital requirement totalling €15.3bn as at 31 December 2016 is equivalent to a very comfortable 316% solvency ratio.	85–99

Pursuant to a Guidance Notice on reporting issued by BaFin on 16 October 2015 (as revised on 19 January 2016), the applicable provisions had been implemented as at the reporting date of 31 December 2016. Given that the BaFin Guidance Notice as at 29 March 2017 was published after our closing date, we were unable to implement the amendments included therein.



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A Business and performance

A 1 Business

A 1.1 General information

Munich Re's parent company is Münchener Rückversicherungs-Gesellschaft Aktiengesellschaft in München (Munich Reinsurance Company Joint-Stock Company in Munich), Königinstrasse 107, 80802 München, Germany. Munich Reinsurance Company is a joint-stock company (Aktiengesellschaft) within the meaning of the German Stock Corporation Act (AktG). Its registered seat is Munich, Germany. In addition to its function as a reinsurer, the parent also fulfils the function of holding company for the Group.

Munich Reinsurance Company has three governing bodies: the Annual General Meeting, the Board of Management and the Supervisory Board. Further details about the governing bodies can be found in section B 1.1 Administrative, management or supervisory bodies (AMSB).

Owing to our international corporate structure, we are subject to a raft of national and international legal systems, standards and corporate governance regulations. Within the Group, our own Code of Conduct binds our management and staff members to engage in ethically and legally impeccable conduct. Since 2013, the principles of the United Nations Global Compact have also been integrated in this Code of Conduct. Further information can be found at www.munichre.com/cg-en.

KPMG Bayerische Treuhandgesellschaft Aktiengesellschaft Wirtschaftsprüfungsgesellschaft Steuerberatungsgesellschaft duly audited the Group and Company financial statements and the combined management report as at 31 December 2016, and issued them with an unqualified auditor's opinion. In accordance with Section 341k of the German Commercial Code (HGB), the external auditors of German insurance companies are appointed not by the Annual General Meeting, but by the Supervisory Board.

The supervision of Munich Re is conducted by the Insurance and Pension Funds Supervision of the Federal Financial Supervisory Authority (Bundesanstalt für Finanzdienstleistungsaufsicht – BaFin), Graurheindorfer Str. 108, 53117 Bonn, Germany.

A 1.2 Legal structure

Munich Re combines primary insurance and reinsurance under one roof. This enables the Group to cover large parts of the value chain in the risk market. At the same time, it leverages synergies in revenue and costs, whilst reducing the risk-based capital required through broad diversification. Almost all reinsurance units operate worldwide under the uniform brand of Munich Re. ERGO Group AG (ERGO) is active in nearly all lines of life, health and property-casualty insurance. Munich Re's investments worldwide are managed by MEAG, which also offers its expertise to private and institutional investors outside the Group. The Munich Health field of business was integrated into the two large reinsurance and ERGO fields of business as of 1 February 2017. The latest information can be found at www.munichre.com.

The reinsurance undertakings of the Group operate globally and in virtually all classes of business. We offer a full range of products, from traditional reinsurance to innovative solutions for risk assumption. Our undertakings conduct their business from their respective headquarters and via a large number of branches, subsidiaries and affiliated companies. The reinsurance group also includes specialty primary insurers, whose business requires special competence in finding appropriate solutions. These primary insurers have the words "Risk Solutions" added to their logo.

Via ERGO, we offer products in all the main classes of insurance: life insurance, German health insurance, and in nearly all lines of property-casualty insurance, as well as travel insurance and legal protection insurance. With these products – in combination with the provision of assistance, other services and individual consultancy – we cover the needs of private and corporate clients. ERGO serves over 35 million (mainly private) clients in over 30 countries, with the focus on Europe and Asia. Up-to-date information about ERGO can be found at www.ergo-group.com.

Munich Reinsurance Company and ERGO Group AG are under unified control within the meaning of the German Stock Corporation Act (AktG). The relevant statutory regulations, control agreements and Group directives govern the distribution of responsibilities and competences for key decisions between Group management and ERGO. Control and profit-transfer agreements are in place with many Group companies, especially between ERGO Group AG and its subsidiaries.

Since 2008, Munich Re had pooled its health business in the Munich Health field of business. A wide spectrum of service providers and risk carriers in primary insurance and reinsurance worldwide (though not in Germany) had attended to customers in services and the insurance sector since then. Despite a few individual success stories, the

original growth and revenue targets for the Munich Health field of business had not been realised overall. Munich Re therefore decided to disband this field of business with effect from 1 February 2017. The reinsurance part of Munich Health was merged with the Life division, and the primary insurance part was transferred to ERGO International.

A 1.3 Qualifying holdings in Munich Reinsurance Company

As at 31 December 2016, no shareholdings exceeded 10% of the voting rights. The largest shareholder at that date was asset manager BlackRock, with a total share of around 6.5% of the voting rights.

A 1.4 Related undertakings

Related undertakings in the scope of the Group included in our solvency balance sheet can be found in the S.32.01.22 "Undertakings in the scope of the group" quantitative reporting template (QRT) in the annex to this report.

Intra-group transactions

In the reporting year, Munich Reinsurance Company withdrew approximately €3bn of capital from domestic investment subsidiaries that mainly hold fixed-interest securities. The transactions were intended to ensure liquidity and optimise Munich Re's Group structure. In addition, Munich Reinsurance Company sold a shareholding in an insurance undertaking to one of its wholly owned subsidiaries, resulting in considerable profits for its German GAAP single-entity financial statements.

The networking of the undertakings in our Group results in further intra-Group business relationships. Intra-Group transactions resulted from areas such as financing, cash management, reinsurance contracts, service offsetting, cost-sharing agreements, and guarantee agreements. Regular reporting to the supervisory authority takes place by means of quantitative reporting templates provided under Solvency II. In accordance with Section 274(3) of the Insurance Supervision Act (VAG), the supervisory authority is notified immediately of particularly significant transactions.

A 1.5 Material lines of business and regions

Life reinsurance

Our international life business is written in the Life division. This is split into three geographical regions and one international unit responsible for global activities in the area of risk and capital management. The focus of the division's business activities is on traditional reinsurance solutions that concentrate on the transfer of mortality risk.

In order to ensure proximity to our clients, we are represented in many markets with local subsidiaries and branches. We write the main portion of our business via our Canadian branch and our subsidiary in the USA. We service the European markets from our operations in Germany, the United Kingdom, Spain and Italy. At the same time, we have a strong local presence in Australia and South Africa, and in all important growth markets in Asia and Latin America. Asian business is centrally managed by a dedicated branch in Singapore, which underlines the strategic importance of this region for life reinsurance.

Four other divisions conduct property-casualty reinsurance. Global Clients and North America handles our accounts with major international insurance groups, globally operating Lloyd's syndicates and Bermuda companies. It also pools our know-how in the North American market and is responsible for our property-casualty subsidiaries in this region and for international special lines business such as workers' compensation.

Our Europe and Latin America division is responsible for property-casualty business with our clients from Europe (except Germany), Latin America and the Caribbean. Branches – for example, in London, Madrid, Paris and Milan – and our Brazilian subsidiary afford us market proximity and regional competence.

The Germany, Asia Pacific and Africa division conducts property-casualty business with our clients in Germany, Africa, Asia, Australia, New Zealand and the Pacific Islands. With offices in Australia and New Zealand, our Australian subsidiary covers the property-casualty reinsurance requirements of our clients in the region. All the important Asian markets are serviced by our branch offices in Hong Kong, Mumbai (since February 2017), Beijing, Singapore and Seoul, and by other representative offices. In the African market, we are represented by a subsidiary headquartered in Johannesburg, and by other liaison offices. The branches in Asia guarantee our competitiveness in these key growth markets with their commitment and local presence.

The Special and Financial Risks division is in charge of the classes of credit, marine, aviation and space, agriculture, enterprise, and other selected contingency risks. The Corporate Insurance Partner unit, which is dedicated to industrial clients and is part of Risk Solutions, also belongs to this division. In 2015, we pooled the Risk Trading Unit, which offers alternative capital market solutions and retrocession (our own reinsurance), and other product experts in a new unit called Capital Partners. Structured prospective and retrospective reinsurance solutions have thus been added, so that we can offer our clients all the tools needed for dealing with complex issues from a single source.

The reinsurance units at a glance

Selected subsidiaries and branch offices outside Germany

Life	<ul style="list-style-type: none"> Munich American Reassurance Company, Atlanta, Georgia Munich Re, Tokyo Munich Re, Toronto Munich Re, Auckland Munich Holdings of Australasia Pty. Ltd., Sydney Munich Re, London
Global Clients and North America	<ul style="list-style-type: none"> American Alternative Insurance Corporation, Wilmington, Delaware¹ American Family Home Insurance Company, Jacksonville, Florida American Modern Home Insurance Company, Amelia, Ohio American Modern Insurance Group, Inc., Amelia, Ohio American Western Home Insurance Company, Oklahoma City, Oklahoma Global Standards, LLC, Dover, Delaware HSB Engineering Insurance Ltd., London HSB Group, Inc., Dover, Delaware Munich Re Holding Company (UK) Ltd., London Munich Reinsurance America, Inc., Wilmington, Delaware¹ Munich Reinsurance Company of Canada, Toronto, Ontario Temple Insurance Company, Toronto, Ontario The Hartford Steam Boiler Inspection and Insurance Company, Hartford, Connecticut The Princeton Excess and Surplus Lines Insurance Company, Wilmington, Delaware The Midland Company, Cincinnati, Ohio
Europe and Latin America	<ul style="list-style-type: none"> Munich Re do Brasil Resseguradora S.A., São Paulo¹ Munich Re, Madrid¹ Munich Re, Milan Munich Re, Paris Munich Re, London
Germany, Asia Pacific and Africa	<ul style="list-style-type: none"> Great Lakes, Sydney Calliden Insurance Ltd., Sydney Great Lakes, Auckland Munich Re, Auckland Munich Re, Beijing¹ Munich Reinsurance Company of Africa Ltd., Johannesburg Munich Holdings of Australasia Pty. Ltd., Sydney Munich Re, Hong Kong¹ Munich Re, Kuala Lumpur Munich Re, Seoul¹ Munich Re, Singapore¹ Munich Re, Sydney
Special and Financial Risks	<ul style="list-style-type: none"> Great Lakes Insurance SE, Munich¹ Great Lakes, Baar Great Lakes, Dublin Great Lakes, Milan Munich Re of Malta p.l.c., Ta' Xbiex¹ New Reinsurance Company Ltd., Zurich¹

¹ Units that also transact business in Munich Health and are therefore allocated proportionately to reinsurance.

ERGO

ERGO serves over 35 million (mainly private) clients in over 30 countries, with the focus on Europe and Asia. With ERGO Lebensversicherung AG and ERGO Versicherung AG, our primary insurance arm is one of Germany's largest providers of life and property insurance. ERGO Versicherung AG also markets legal protection insurance

under the D.A.S. brand. DKV Deutsche Krankenversicherung AG is a leading provider and a specialist in the health market. The specialist travel insurer ERV is an established carrier and a market leader internationally as well as in Germany. The ERGO Direkt companies provide the expertise in digital marketing that is becoming more important across the market and in all lines of business.

ERGO at a glance

Segment	Selected subsidiaries
Life and Health Germany	DKV Deutsche Krankenversicherung Aktiengesellschaft, Cologne ERGO Direkt Krankenversicherung AG, Fürth ERGO Direkt Lebensversicherung AG, Fürth ERGO Direkt Versicherung AG, Fürth ERGO Lebensversicherung Aktiengesellschaft, Hamburg ERGO Pensionskasse AG, Düsseldorf EUROPÄISCHE Reiseversicherung Aktiengesellschaft, Munich Victoria Lebensversicherung Aktiengesellschaft, Düsseldorf VORSORGE Lebensversicherung Aktiengesellschaft, Düsseldorf
Property-casualty Germany	ERGO Versicherung Aktiengesellschaft, Düsseldorf
International	AGROTIKI Insurance S.A., Athens DAS Legal Expenses Insurance Company Limited, Bristol DAS Nederlandse Rechtsbijstand Verzekeringmaatschappij N.V., Amsterdam ERGO General Insurance Company S.A., Athens ERGO Insurance N.V., Brussels ERGO Insurance SE, Tallinn ERGO Life Insurance SE, Vilnius ERGO SIGORTA A.S., Istanbul ERGO Versicherung Aktiengesellschaft, Vienna Sopockie Towarzystwo Ubezpieczen Ergo Hestia Spolka Akcyjna, Sopot Sopockie Towarzystwo Ubezpieczen na Zycie Ergo Hestia Spolka Akcyjna, Sopot

In Europe and Asia, ERGO is represented by life and property insurers under the ERGO brand and legal protection insurers under the D.A.S. brand. Of ERGO's European companies, those in Austria, Poland, the Baltic states and Greece have a particularly strong market presence. With its ERGO Industrial division, ERGO Versicherung AG services corporate clients in industrial insurance from its branches in Austria, the Netherlands, the United Kingdom, Switzerland and – since 2016 – France.

ERGO is participating in the dynamic development of the Asian growth region via joint ventures in India and China, and acquisitions and investments in other countries. The health primary insurance business managed by Munich Health was transferred to ERGO International from 1 February 2017.

Munich Health

In the 2016 financial year, Munich Health had been working on further business expansion in the Asia-Pacific region via service-oriented reinsurance solutions focusing on Southeast Asia and China. We continued to grow our reinsurance business in the Middle East and Gulf region. In the reporting year, we laid the organisational groundwork

for future growth through capital-relief reinsurance solutions in Europe and Latin America. Despite the challenging economic environment, DKV Seguros maintained its leading market position in Spain. As a provider of funded health insurance, DKV Belgium did not escape the impact of the low-interest-rate environment in the Belgian market, but it is consistently developing its offering further in favour of products that are not dependent on interest rates.

A 1.6 Significant business events

No significant business or other events occurred over the reporting period that had a material impact on the undertaking.

Munich Health at a glance

Selected companies fully allocated to Munich Health

Apollo Munich Health Insurance Company Ltd., Hyderabad
 Daman – National Health Insurance Company, Abu Dhabi
 Daman Health Insurance – Qatar LLC, Doha, Qatar
 DKV Belgium S.A., Brussels
 DKV Seguros y Reaseguros, Sociedad Anónima Española, Saragossa
 Globality S.A., Luxembourg
 Marina Salud S.A., Alicante
 Munich Re Stop Loss, Inc., Wilmington, Delaware
 Storebrand Helse ASA, Lysaker

Selected companies that operate in more than one segment and are allocated proportionately to Munich Health

Great Lakes Insurance SE, Munich
 Münchener Rückversicherungs-Gesellschaft AG, Munich
 Munich Re of Malta p.l.c., Ta' Xbiex
 Munich Reinsurance America, Inc., Wilmington, Delaware

A 1.7 Determination of consolidated data (significant differences between IFRS and Solvency II)

As a general rule, under IFRS all subsidiaries over which the parent company can exercise control are fully consolidated in the IFRS consolidated financial statements, irrespective of the business they conduct. Under Solvency II, however, the nature of the business plays a role when determining which subsidiaries are included in the Group solvency balance sheet. Here, only those subsidiary undertakings that are insurance companies, insurance holding companies, special purpose vehicles and ancillary services undertakings are fully consolidated. Alternative investment funds and undertakings for the collective investment in transferable securities (UCITS¹) over which control can be exercised are fully consolidated in the IFRS balance sheet. In accordance with the Solvency II rules (Article 335(1)(f) of the Delegated Regulation), we include these types of undertaking as participations in the Group solvency balance sheet.

Under IFRS, joint ventures and associates are accounted for using the equity method. As a general rule, joint ventures are included in the solvency balance sheet in accordance with the principle of proportional consolidation of data. Currently, Munich Re does not include any proportionately consolidated undertakings in the solvency balance sheet. We recognise undertakings for which we hold at least 20% of the voting rights as associates in our IFRS consolidated financial statements. In the solvency

balance sheet, undertakings for which we own a 20% or greater share of the capital or voting rights are categorised as participating interests. For the most part, they are accounted for using the equity method. Where the share in capital is not equal to that of the voting rights, there are reporting differences between the balance sheets produced under Solvency II and IFRS.

Further information on the determination of consolidated data under Solvency II can be found on page 63 ff. (D 1.7.2 Holdings in related undertakings, including participations) and page 87 ff. (E 1.3 Consolidation methods for own funds).

¹ These are investment funds in statutorily defined types of securities and other financial instruments.

A 2 Underwriting performance by line of business and region¹

In the 2016 financial year, Munich Re's business performance was good overall. Munich Re's premium volume was down in the reporting year, mainly because of negative currency translation effects, reduced shares in large-volume treaties, and the sale of ERGO Italia. Although major-loss expenditure was higher than in the previous year, it was still below our expected range – thus continuing the trend of recent years.

A 2.1 Reinsurance

A 2.1.1 Life reinsurance

In life reinsurance, the prolonged low-interest-rate phase and sluggish economies in many of our key markets had some impact on our clients' business, curbing demand for reinsurance. In addition, we saw a further increase in competition in several markets. In Asia and the USA, our new business again developed positively. The conclusion of a number of large new treaties, particularly in Canada and Australia, will not be fully reflected in premium income until 2017.

Based on premium volume, over half (around 55%) of our global business is written in North America, where Canada (approximately 30%) continues to rank before the USA (about 25%). Approximately a fifth of our premium comes from Europe, in particular the United Kingdom and Germany. Australia also contributes a substantial share.

Our Canadian branch, Munich Re, Toronto (Life), generated premium income of €3.0bn (3.7bn) in the life reinsurance field of business. The decrease is largely attributable to the fact that a large-volume treaty was renewed at a reduced volume with effect from 2016. In addition, a newly concluded transaction will not be fully reflected in premium income until 2017. The unit maintained its leading market position and again posted a very gratifying technical result (IFRS) that was even higher than in the prior year, thus accounting for a disproportionately large contribution to the overall result.

In the USA, our subsidiary Munich American Reassurance Company posted an increase in gross premium income to €2.6bn (2.5bn). We therefore continue to be one of the leading reinsurers in the world's largest market. The technical result (IFRS) showed an improvement on the prior year, especially owing to a number of reserving effects that were positive overall. While random fluctuation was

within normal bounds, claims expenditure was slightly higher than we expected, impacted in particular by a number of large mortality claims. We are very satisfied with new business performance, both in terms of volume and profitability.

Premium income in Europe fell to €1.9m (2.1m), with approximately two thirds written by our UK branch and €382m (344m) coming from Germany. The technical result (IFRS) in Europe was gratifying, significantly exceeding the previous year's level.

In Asia, our premium income climbed to €1,008m (910m). New business continued to develop very well. With our broad diversification, we are in a position to benefit from the growth potential in the region by providing client and market-specific solutions. The technical result was within the expected range, albeit somewhat lower than the record level achieved the previous year.

At our subsidiary Munich Reinsurance Company of Australasia Ltd., which writes our life reinsurance business in Australia and New Zealand, premium income increased to €729m (658m). After achieving a break-even result in the previous year, we posted a deficit in 2016, largely owing to declining interest rates and randomly higher claims expenditure. The rehabilitation of disability business, which had given rise to losses from 2011 to 2014, has largely been completed. A new large-volume treaty concluded in the third quarter will not have a full impact on premium volume or the result until 2017.

On the African continent, our South African subsidiary Munich Reinsurance Company of Africa Ltd. posted a decrease in premium volume to €167m (187m), which was exclusively attributable to currency translation. The technical result was negative, since the technical provisions of one treaty had to be adjusted.

The technical result (IFRS) in the life reinsurance field of business showed a notable improvement on the previous year, and exceeded our expectations. Claims experience was impacted by high expenditure for single mortality claims with high sums insured, but was nevertheless within the range of normal volatility. The result also benefited overall from a number of one-off and reserving effects. The North American and European markets were predominantly responsible for the pleasing result. Asia, too, made a solid contribution to the overall result. Business in the USA and Australia largely developed in line with our expectations.

¹ Premiums and results refer to the figures in our consolidated financial statements under IFRS as at 31 December 2016.

A 2.1.2 Property-casualty reinsurance

Property-casualty reinsurance was affected in part by the selective underwriting of attractive new business – for example, in the form of structured large-volume treaties tailored to meet individual client requirements. These business opportunities were available globally and across all lines of business. In addition, we were able to generate organic growth with important business partners. Our success in generating business is based on our long-term client relationships and our comprehensive expertise, which is highly appreciated by our clients. In keeping with our profit-oriented underwriting policy, we reduced our portfolio in areas in which risk-adequate prices, terms and conditions could no longer be achieved. The 2016 renewals took place in a market environment that was nearly unchanged compared with the previous year. There was sufficient reinsurance capacity in all classes of business. Prices therefore remained under pressure, but to a lesser degree than in previous years. Treaty terms and conditions and demand for reinsurance coverage also showed some signs of stabilisation.

Based on premium volume, around 40% of our global property-casualty business is written in North America (including Canada). Around 35% of our premium comes from Europe, of which more than half is generated in the United Kingdom, and approximately 5% in Germany. Further substantial shares are contributed by Asia (about 10%), Australia/New Zealand (approximately 5%) and Latin America (approximately 5%).

In the US market, we wrote additional profitable liability business. The pressure on prices for natural hazards cover in reinsurance persisted. We are also currently expanding our range of Internet of Things (IoT) insurance solutions at the Hartford Steam Boiler Inspection and Insurance Company (HSB) – and are also increasing our know-how by means of acquisitions. Premium income at American Modern declined. We decided at the beginning of the year to discontinue selling a product through banking channels. Premium volume in Canada fell considerably, primarily because one customer's large-volume treaty was not renewed, as had been anticipated.

European business is dominated by property business and UK motor business. In the United Kingdom, we were able to maintain a stable premium level. If the exchange rates had remained unchanged, however, the premium volume would have increased. This increase was mainly attributable to the expansion of our primary insurance activities and to rate increases in motor business.

Adhering to our consistent cycle- and profitability-oriented portfolio management, we reduced our premium volume in Germany year on year in 2016. The reduction chiefly concerned unprofitable proportional fire business.

In China, we continued to benefit from growth in the original markets, and also increased our premium income in motor business. Despite far-reaching changes in regulatory requirements and an extremely competitive market environment, we still see considerable medium-term growth potential for our Group in China.

The technical result (IFRS) in the property-casualty reinsurance field of business was down on the previous year's result, which had been exceptionally good. The decline was mainly attributable to higher major-loss expenditure. A customary review of provisions for the full year also resulted in a reduction in the provisions for claims from prior years, albeit at a lower level than in 2015. The safety margin in the reserves remained unchanged year on year.

Overall major-loss expenditure totalled €1,542m after retrocession and before tax, which was above the previous year's level, but nevertheless below expectations. Run-off profits were higher than the reserve strengthening for major losses from previous years.

At €929m, natural catastrophe losses were below the level to be expected. With a cost to Munich Re of €404m, devastating forest fires in the Canadian province of Alberta in May 2016 were by far the biggest loss of the reporting year.

At €613m, man-made major losses were down on the previous year and somewhat below expectations. Development was marked by a variety of individual events, including fire, explosion, marine and liability losses.

Motor business (motor liability insurance and other motor insurance) was marked by improved rates in the United Kingdom, among other things. We were able to continue to participate in the growth of China's original markets and further increase our premium volume.

In fire and other property insurance, we posted a rise in premium, mainly thanks to additional business generated in the United Kingdom. But our withdrawal from unprofitable proportional fire business as part of our consistent cycle- and profitability-oriented portfolio management resulted in lower premiums. The technical result (IFRS) was chiefly affected by significantly higher major-loss expenditure and lower loss reserve releases year on year.

A 2.2 ERGO

A 2.2.1 ERGO Life and Health Germany

Three ERGO divisions are combined in the ERGO Life and Health Germany segment: Life Germany, Health Germany and German direct business.

The decrease in premium income in the Life Germany field of business was mainly due to a decline in single-premium business. Unearned premiums from 2015 were also lower than the previous year's figure. The strong fall in regular premium income was mainly attributable to the ongoing portfolio reduction, which could not be compensated for by new business. There was a year-on-year increase in regular-premium new business, chiefly due to successful marketing of a stand-alone disability insurance cover launched at the beginning of the year.

The technical result (IFRS) generated by Life Germany was up compared with the figures for the previous year, partly due to a refined methodology.

In Health Germany, around 91% of premium is derived from health insurance and around 9% from travel insurance. In supplementary health insurance business, premium income fell by 4.1% year on year, chiefly owing to the termination of a large-volume treaty. Without this effect, premium income in supplementary health insurance would have increased by 1.1%. Also adjusted for this effect, supplementary insurance not similar to life insurance grew substantially by 17.2%. In comprehensive health insurance, premium volume was roughly on a par with the same period last year (+0.5%).

The fall in the technical result (IFRS) generated by Health Germany is partly due to lower income from technical interest.

Life insurance accounts for around 44% of premium income in the German direct business segment. Approximately 42% of the premium income derives from direct health insurance, and around 14% from direct property-casualty insurance.

The weakening of premium volume here is mainly due to the decrease in regular premium income from capital products in life insurance and the discontinuation of single-premium annuity business. In addition, the decrease was attributable to the termination of a large direct property treaty. Growth in the direct health insurance sector could partly compensate for this.

The technical result (IFRS) generated by German direct business in 2016 exceeded the figure for the previous year.

A 2.2.2 ERGO Property-casualty Germany

Our main classes of business are motor and personal accident insurance, which respectively account for around 21% and 20% of the segment's premium income.

Premium income developed favourably year on year. Premium volume climbed by 1.7% in liability insurance, 1.3% in motor insurance, and 1.5% in legal protection insurance. Fire and property business and personal accident insurance saw a year-on-year decline in premium volume of 3.1% and 2.5% respectively.

The technical result (IFRS) in the ERGO Property-casualty Germany segment rose in 2016, due mainly to lower major-loss expenditure.

A 2.2.3 ERGO International

Approximately 38% of ERGO International's premium income derives from life insurance, and around 62% from property-casualty insurance. ERGO's biggest markets include Poland (approximately 29%), Austria (about 17%) and Belgium (around 15%).

Overall, ERGO International posted a decline in gross premiums written. Adjusted for currency translation effects, gross premiums written in the ERGO International segment would have decreased year on year by 4.2%. The most significant negative currency translation effects were seen in Poland, Turkey and the UK.

At €1,530m (1,991m), there was a decline in premium income from international life insurance business. The marked decrease is due in particular to developments in Poland and Belgium. In addition, the decline was attributable to the deconsolidation of our Italian company as at 30 June 2016. We posted premium volume of €2,502m (2,392m) in international property-casualty business, representing an increase of 4.6%. The higher premium income mainly resulted from developments in Poland and the Baltic states. The first-time consolidation of the Greek insurer ATE Insurance in the third quarter of 2016 contributed to this increase with gross premiums written of €46m.

There was a decline in the technical result (IFRS) in the ERGO International segment. This negative development was significantly influenced by life insurance business. The decline was attributable to the results in Italy, Belgium and Austria and, in Belgium and Austria, due partly to a review of underwriting assumptions involving a downward adjustment of expected future profits in view of low interest rates. There was a year-on-year improvement in the result in property-casualty business.

A 2.3 Munich Health

Negative currency translation effects from Canadian and US dollars, and the reduction of our share in a large treaty in Canada, resulted in a decrease in gross premium in the health reinsurance segment of the Munich Health field of business. Primary insurance at Munich Health saw a slight increase in Spain and Belgium. If exchange rates had remained the same, Munich Health's gross premiums would have decreased year on year, with the decline of volume in Canada being the main factor.

The technical result was significantly above the level of the previous year. Improved results in reinsurance derived mainly from higher losses in the USA in the previous year that were not repeated due to the introduction of countermeasures. Improved business performance in other regions (Europe and the Middle East) also allowed for the release of provisions from previous years. There was also an improvement in the result for primary insurance, especially in Belgium.

A 3 Investment performance

A 3.1 Income and expenses with respect to investment activities

Investment result

	2016	Return ¹	Prev. year	Return ¹
	€m	%	€m	%
Regular income	6,663	2.8	7,370	3.1
Write-ups/write-downs of non-derivative investments	-400	-0.2	-754	-0.3
Gains/losses on the disposal of non-derivative investments	2,603	1.1	2,693	1.1
Net gains on derivatives	-713	-0.3	-1,226	-0.5
Other income/expenses	-586	-0.2	-548	-0.2
Total	7,567	3.2	7,536	3.2

¹ Return in % p.a. on the average value of the investment portfolio at the quarterly reporting dates. The overall investment portfolio used to determine the return for 2016 (3.2%) is calculated as the mean value of the investment portfolios (carrying amounts) as at 31 December 2015 (€215,093m), 31 March 2016 (€214,828m), 30 June 2016 (€218,805m), 30 September 2016 (€222,040m) and 31 December 2016 (€219,416m), and the off-balance-sheet unrealised gains and losses (excluding owner-occupied property) as at 31 December 2015 (€15,436m), 31 March 2016 (€18,114m), 30 June 2016 (€18,714m), 30 September 2016 (€19,784m) and 31 December 2016 (€16,738m).

Owing to the ongoing low return on reinvestments, the amount of regular income fell as against the previous year. Positive currency translation effects were unable to compensate for lower interest payments from fixed-interest securities. Our reinvestment return was 1.8% (1.8%). Due to the low levels of interest rates in the reporting year, yields on new investments remained far lower than the average return on our existing portfolio of fixed-interest investments. The decrease in regular income is also due to lower interest income on deposits resulting from the termination of contracts in life reinsurance.

We posted lower net write-downs of non-derivative investments, particularly on our share portfolio.

In the reporting year, we generated lower net gains on the disposal of non-derivative investments. The reduction is primarily attributable to our equity portfolio and to the fact that we had realised a positive one-off effect in the previous year from the almost complete acquisition of 13th & F Associates Limited Partnership Columbia Square (13th & F).

The negative balance from write-ups and write-downs and losses on the disposal of derivatives improved significantly on the previous year. This improvement stems mainly from interest-rate derivatives (particularly from the ERGO interest-rate hedging programme) and from commodity derivatives. Our equity derivatives showed higher losses than in the previous year. The total return on our equity portfolio including equity derivatives was 2.6% (5.2%).

Income and expenses arising from investments can be broken down by asset class as follows:

Investment result by type of investment

€m	2016
Land and buildings, including buildings on third-party land	383
Investments in affiliated companies	-159
Investments in associates and joint ventures	124
Loans	2,633
Other securities available for sale	
Fixed-interest	4,857
Non-fixed-interest	672
Other securities at fair value through profit or loss	
Held for trading	
Fixed-interest	0
Non-fixed-interest	4
Derivatives	-608
Designated at fair value through profit or loss	
Fixed-interest	13
Non-fixed-interest	4
Deposits retained on assumed reinsurance, and other investments	174
Expenses for the management of investments, other expenses	-530
Total	7,567

The result for land and buildings includes rental income of €405m (393m). The expenses for the management of investments include running costs and expenses for repair and maintenance of property totalling €69m (65m). We earned interest income of €2,063m (2,098m) on loans. Other securities available for sale produced regular income of €3,755m (4,145m), while derivatives generated €114m (137m). Interest expenses on non-derivative investments amounted to €12m (13m), administrative expenses to €375m (361m), and other expenses to €86m (81m).

A 3.2 Gains and losses recognised directly in equity

Unrealised gains and losses

€m	31.12.2016	Prev. year
Unconsolidated affiliated companies, associates and joint ventures not accounted for using the equity method	90	81
Associates and joint ventures accounted for using the equity method	80	91
Other securities available for sale		
Fixed-interest	8,649	7,886
Non-fixed-interest	2,924	2,446
Less		
Provision for deferred premium refunds recognised in equity	-5,609	-4,868
Deferred taxes recognised in equity	-1,381	-1,406
Non-controlling interests	-16	-19
Consolidation and currency translation effects	-297	-168
Adjustment item for disposal group	0	142
Total	4,441	4,185

The increase in on-balance-sheet net unrealised gains was mainly due to fixed-interest securities (because of lower interest rates) and equities (because of positive stock-market developments).

A 3.3 Investments in securitisations

The portfolio of structured credit products at fair values amounted to €4.8bn in the reporting year. This asset class involves securitised receivables (asset-backed securities or mortgage-backed securities) such as securitisations of real estate finance, consumer credit or student loans. Around 58% of our portfolio of asset- and mortgage-backed securities have a rating of AAA.

A 4 Performance of other activities

A 4.1 Munich Re as lessee

Future minimum lease payments under non-cancellable operating leases totalled €495m at 31 December 2016. The agreements mainly concern offices and business premises of the Group, IT infrastructure, and land. They include extension options as well as restrictions regarding the agreement of subleases.

Future minimum lease payments under operating leases

€m	31.12.2016	Prev. year
Up to one year	97	87
More than one year and up to five years	236	233
More than five years	162	160
Total	495	480

A 4.2 Munich Re as lessor

The operating leases mainly involve leased property. The total of future minimum lease payments under non-cancellable leases at the balance sheet date was €1,281m.

Future minimum lease payments under operating leases

€m	31.12.2016	Prev. year
Up to one year	205	205
More than one year and up to five years	575	514
More than five years	501	415
Total	1,281	1,135

There were also several finance leases for property as at 31 December 2016:

Due dates

€m	31.12.2016			Prev. year		
	Gross investment	Interest element	Net investment	Gross investment	Interest element	Net investment
Minimum lease payments up to one year	0	0	0	0	0	0
Minimum lease payments of more than one year and up to five years	2	1	1	2	0	2
Minimum lease payments of more than five years	72	56	15	72	56	16
Total minimum lease payments	74	57	17	74	57	18
Unguaranteed residual values	41	34	7	41	35	6
Total	116	91	25	116	92	24

A 5 Any other information

No circumstances in the reporting year require explanation in the "Any other information" section.

B

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B System of governance

B 1 General information on the system of governance

B 1.1 Administrative, management or supervisory bodies (AMSB)

Munich Reinsurance Company has three governing bodies: the Annual General Meeting, the Board of Management and the Supervisory Board. Their functions and powers are defined by law, the Articles of Association, the Co-determination Agreement applicable to Munich Reinsurance Company, and by rules of procedure and internal guidelines. Employee co-determination on the Supervisory Board is governed by the Co-determination Agreement concluded pursuant to the German Act on the Co-Determination of Employees in Cross-Border Mergers (MgVG). There, the principle of parity co-determination on the Supervisory Board has been strengthened by taking into account staff employed in the rest of Europe.

The supervisory requirements for (re)insurance undertakings, especially the German Insurance Supervision Act (VAG) and the European supervisory regulations (Solvency II implementing rules) are placing additional demands on corporate governance. They include specific rules on various issues such as business organisation or the qualifications and remuneration of members of the Board of Management, Supervisory Board members and other individuals.

Annual General Meeting

The Annual General Meeting regularly reaches a resolution on the appropriation of profits and approving the actions of the Board of Management and Supervisory Board. Besides this, the Annual General Meeting elects the shareholder representatives on the Supervisory Board and, in particular, votes on changes to the Articles of Association and on individual capital measures. To become effective, certain corporate contracts also require the approval of the Annual General Meeting.

Board of Management

Pursuant to Article 16 of the Articles of Association, the Board of Management consists of at least two members; beyond this, the number of members is determined by the Supervisory Board. When appointing the Board of Management, the Supervisory Board pays due regard to diversity. In 2016, the Board of Management of Munich Reinsurance Company had ten members, two of whom were women.

The Board of Management is responsible for managing the Company, in particular for setting the Company's objectives and determining strategy. In doing so, it is obliged to safeguard Company interests and endeavour to achieve a sustainable long-term increase in the Company's value. The Board of Management is responsible for effecting adequate risk management and risk control in the Company. It must ensure that statutory requirements and internal Company guidelines are abided by (compliance).

Supervisory Board

In compliance with Munich Reinsurance Company's Articles of Association, the Supervisory Board has 20 members. Half are representatives of the shareholders, elected by the Annual General Meeting. The other half are elected representatives of the Group's employees in the European Economic Area (EEA).

The Supervisory Board monitors the Board of Management and gives counsel where appropriate, but it is not authorised to take management action in place of the Board of Management. In accordance with a special rule applicable to (re)insurance companies, the Supervisory Board also appoints the external auditor for the Company and Group financial statements, and for the Half-Year Financial Report.

Collaboration between Board of Management and Supervisory Board

The Board of Management and the Supervisory Board cooperate closely for the benefit of the Company.

The Board of Management coordinates the Company's strategic approach with the Supervisory Board and discusses the current state of strategy implementation with it at regular intervals. The Board of Management reports regularly and as needed to the Supervisory Board about all questions relevant to the Company. Beyond this, the Board of Management reports to the Audit Committee on specific topics falling within the latter's scope of responsibility. The Supervisory Board has defined the Board of Management's information and reporting requirements in detail. Specific types of transactions, such as certain investments and divestments pursuant to Article 4 of the Articles of Association, require the Supervisory Board's consent. The Supervisory Board's approval is also required for other professional activities undertaken by members of the Board of Management, and for important transactions involving members of the Board of Management or persons or undertakings closely associated with them.

Governing bodies of Munich Re

Board of Management

Dr. jur. Nikolaus von Bomhard (until 26 April 2017)

Chairman of the Board of Management

Chairman of the Group Committee

Group Development¹

Group Investments

Group Communications

Group Compliance

Group Audit

Group Human Resources

Dr. oec. publ. Joachim Wenning

Labour Relations Director (until 26 April 2017)

Life (until 31 January 2017)

Human Resources (until 26 April 2017)

From 27 April 2017

Chairman of the Board of Management

Chairman of the Group Committee

Group Development¹

Group Investments

Group Communications

Group Compliance

Group Audit

Group Human Resources

Giuseppina Albo

Europe and Latin America

Dr. rer. pol. Ludger Arnoldussen

Germany, Asia Pacific and Africa

Central Procurement

Services

Dr. rer. pol. Thomas Blunck

Life and Health (since 1 February 2017)

Capital Partners

Digital Partners

Special and Financial Risks (until 31 January 2017)

Reinsurance Investments

Dr. jur. Doris Höpke

Labour Relations Director (from 27 April 2017)

Health (until 31 January 2017)

Special and Financial Risks (from 1 February 2017)

Human Resources (from 27 April 2017)

Dr. rer. nat. Torsten Jeworrek

Chairman of the Reinsurance Committee

Reinsurance Development

Corporate Underwriting

Claims

Accounting, Controlling and

Central Reserving for Reinsurance

Information Technology

Geo Risks Research/

Corporate Climate Centre

Dr. rer. pol. Markus Rieß

Primary Insurance/ERGO

Third Party Asset Management

Dr. rer. pol. Peter Röder

Global Clients and North America

Dr. jur. Jörg Schneider

Chief Financial Officer

Financial and Regulatory Reporting

Group Controlling

Corporate Finance M&A

Integrated Risk Management

Group Legal

Group Taxation

Investor and Rating Agency Relations

Supervisory Board

Dr. jur. Hans-Jürgen Schinzler

Honorary Chairman

Former Chairman of the Supervisory Board

Dr. Ing. E.h. Dipl. Ing. Bernd Pischetsrieder

Chairman

Member since 17 April 2002,

last re-elected 30 April 2014

Former Chairman of the Board of Management of

Volkswagen AG

Marco Nörenberg

Deputy Chairman

Member since 22 April 2009,

last re-elected 30 April 2014

Employee of ERGO Group AG

Prof. Dr. oec. Dr. iur. Ann-Kristin Achleitner

Member since 3 January 2013,

last re-elected 30 April 2014

Scientific Co-Director of the Center for Entrepreneurial and Financial Studies (CEFS) at the Technical University of Munich

Clement B. Booth

Member since 27 April 2016

Member of the Board of Directors of Hyperion Insurance Group, United Kingdom

Frank Fassin

Member since 22 April 2009,

last re-elected 30 April 2014

Regional Section Head Financial Services, ver.di North Rhine-Westphalia

Dr. jur. Benita Ferrero-Waldner

Member since 12 February 2010,

last re-elected 30 April 2014

President of the Euroamérica Foundation, Spain

Partner in the law firm of Cremades & Calvo Sotelo, Spain

¹ Including responsibility for environmental, social and governance (ESG) issues.

Christian Fuhrmann

Member since 22 April 2009,
last re-elected 30 April 2014
Head of Divisional Unit, Munich Reinsurance Company

Prof. Dr. rer. nat. Dr. h.c. Ursula Gather

Member since 30 April 2014
Rector of TU Dortmund University

Prof. Dr. rer. nat. Peter Gruss

Member since 22 April 2009,
last re-elected 30 April 2014
President and CEO of OIST Graduate University, Japan

Gerd Häusler

Member since 30 April 2014
Chairman of the Supervisory Board of BayernLB

Dr. iur. Anne Horstmann

Member since 30 April 2014
Employee of ERGO Group AG

Ina Hosenfelder

Member since 30 April 2014
Employee of ERGO Group AG
Deputy Chair of the Union Council of the
Neue-Assekuranz-Gewerkschaft (NAG)

Renata Jungo Brüngger

Member since 3 January 2017
Member of the Board of Management of Daimler AG

Prof. Dr. rer. nat. Dr. Ing. E.h. Henning Kagermann

Member since 22 July 1999,
last re-elected 30 April 2014
President of acatech – German Academy of
Science and Engineering

Wolfgang Mayrhuber

Member from 13 December 2002 until 31 December 2016
Chairman of the Supervisory Board of
Deutsche Lufthansa AG

Beate Mensch

Member since 30 April 2014
Trades Union Secretary, ver.di, Hessen

Ulrich Plottke

Member since 30 April 2014
Employee of ERGO Group AG

Anton van Rossum

Member from 22 April 2009 until 27 April 2016
Chairman of the Supervisory Board of Royal Vopak NV,
Netherlands

Andrés Ruiz Feger

Member since 22 April 2009,
last re-elected 30 April 2014
Employee of Munich Re, Sucursal en España, Spain

Gabriele Sinz-Toporzyssek

Member since 30 April 2014
Employee of ERGO Beratung und Vertrieb AG

Dr. phil. Ron Sommer

Member since 5 November 1998,
last re-elected 30 April 2014
Chairman of the Supervisory Board of MTS OJSC, Russia

Angelika Wirtz

Member since 30 April 2014
Employee of Munich Reinsurance Company

Membership of the Supervisory Board committees**Standing Committee****Dr. Ing. E.h. Dipl. Ing. Bernd Pischetsrieder**

Chair

Gerd Häusler (since 1 January 2017)

Prof. Dr. rer. nat. Dr. Ing. E.h. Henning Kagermann

Wolfgang Mayrhuber (until 31 December 2016)

Marco Nörenberg

Andrés Ruiz Feger

Personnel Committee**Dr. Ing. E.h. Dipl. Ing. Bernd Pischetsrieder**

Chair

Prof. Dr. rer. nat. Dr. Ing. E.h. Henning Kagermann

(since 1 January 2017)

Wolfgang Mayrhuber (until 31 December 2016)

Angelika Wirtz

Audit Committee**Prof. Dr. rer. nat. Dr. Ing. E.h. Henning Kagermann**

Chair

Prof. Dr. oec. Dr. iur. Ann-Kristin Achleitner

(since 27 April 2016)

Christian Fuhrmann

Dr. iur. Anne Horstmann

Dr. Ing. E.h. Dipl. Ing. Bernd Pischetsrieder

Anton van Rossum (until 27 April 2016)

Nomination Committee**Dr. Ing. E.h. Dipl. Ing. Bernd Pischetsrieder**

Chair

Prof. Dr. oec. Dr. iur. Ann-Kristin Achleitner

Prof. Dr. rer. nat. Dr. Ing. E.h. Henning Kagermann

Conference Committee**Dr. Ing. E.h. Dipl. Ing. Bernd Pischetsrieder**

Chair

Prof. Dr. rer. nat. Dr. Ing. E.h. Henning Kagermann

Marco Nörenberg

Angelika Wirtz

Work of the committees

There are five Supervisory Board committees. These are assigned certain matters for resolution and also prepare the topics which are to be addressed and decided upon by the full Supervisory Board. At each Supervisory Board meeting, detailed information about the work of the committees was provided to the full Board by the respective Chairs of the committees.

The members of the Supervisory Board and membership of the Supervisory Board Committees can be seen on pages 22-23 and at www.munichre.com/supervisory-board.

The **Personnel Committee** held five meetings in the period under review. It essentially prepared the resolutions on matters involving the Board of Management already mentioned in the report on the work of the full Supervisory Board. It also dealt with seats held by members of the Board of Management on supervisory, advisory and similar boards, and with Group-wide succession planning, especially with respect to Board-level appointments.

At its four meetings in 2016, the **Standing Committee** dealt with the preparation of the respective Supervisory Board meetings and topics of corporate governance. In addition, the Standing Committee carried out a review of the efficiency of the Supervisory Board's work in 2016, and determined that, overall, the reporting by the Board of Management and the work of the Supervisory Board was efficient and appropriate. Regular reports by the Chairman of the Board of Management covered changes to the shareholder structure and the status of the share buy-back programme. The Committee also received the annual report on expenses for donations and sponsoring.

The **Audit Committee** met six times in 2016, and two of these meetings were attended by the external auditors. At the meetings attended by the auditors, the Committee thoroughly discussed the Company and Group financial statements, the combined management report, the auditor's report and the Board of Management's proposal for the appropriation of the net retained profits for the financial year 2015. The Audit Committee also considered the 2016 Quarterly Statements, and conducted a detailed review of the 2016 Half-Year Financial Report in conjunction with the auditor. The Committee heard regular reports on the current status of the Solvency II implementation project, and discussed in these meetings both initial and quarterly reporting to the Supervisory Authority. Other key tasks of the Committee consisted in monitoring the Group's risk situation and risk management on an ongoing basis, and discussing the risk strategy. In addition to quarterly written reports, the Committee also obtained detailed verbal information from the Group Chief Risk Officer on several occasions, and heard reports from the head of the actuarial function. Further issues discussed regularly were the internal control system and compliance topics. The Head of Group Audit informed the members of the Committee in full about the outcome of the audits for 2015 and the audit planning for 2016. The Committee received regular updates on the current status of individual compliance issues and the progress of audits.

In the absence of the Board of Management, the members of the Committee took advantage of the opportunity to confer amongst themselves or with the Head of Group Audit, the Group Chief Compliance Officer, the Group Chief Risk Officer and the external auditors. Furthermore, the Audit Committee reviewed and monitored the auditor's independence. The Committee passed guidelines on the awarding of service contracts to the auditor and conducted the approval process required under these guidelines. The Audit Committee regularly requested reports on the auditor's new activities beyond the auditing of the annual financial statements and on the utilisation of the statutory limit for awarding such contracts. Following a resolution by the full Supervisory Board, the Chair of the Committee commissioned KPMG with the audit for the 2016 financial year, and also commissioned the auditor's review of the Half-Year Financial Report 2016.

The **Nomination Committee** met three times in 2016, and discussed suitable candidates for election to the Supervisory Board. In proposing nominations, the Committee took account of the objectives set by the Supervisory Board for composition of the Committee and the set of criteria, which it updated in the year under review.

There was no need to convene the **Conference Committee** in 2016.

From amongst its members, the Board of Management sets up a committee for Group matters (Group Committee), a committee for matters from the reinsurance field of business (Reinsurance Committee) and a committee for strategic matters (Strategy Committee).

The **Group Committee** (GC) is the central management committee of the Group. It decides on fundamental management issues of the Group for all fields of business, and on the principles of general business policy and organisation within the Group, unless specific responsibilities are assigned to the Reinsurance Committee or the Strategy Committee. The members of the Group Committee are Nikolaus von Bomhard (until 26 April 2017), Joachim Wenning (from 27 April 2017), and Jörg Schneider.

The **Reinsurance Committee** (RC) is the central management committee of the reinsurance field of business. It decides on all matters of fundamental importance for this field. Where decisions within the sphere of responsibility of a committee are issues reserved for the Board of Management – either by law, under the Articles of Association or under the rules of procedure for the Board of Management – the respective committee will prepare these matters for decision. The members are Torsten Jeworrek – Chairman of the Reinsurance Committee – Pina Albo, Thomas Blunck, Peter Röder, and Joachim Wenning. Hermann Pohlchristoph, successor to Ludger Arnoldussen, became a member of the Reinsurance Committee with effect from 27 April 2017. Andrew Buchanan (non-voting member) succeeded Hermann Pohlchristoph as Chief Financial Officer for the reinsurance field of business with effect from 27 April 2017.

The **Strategy Committee** (StratC) is the central management committee for fundamental strategic matters in the fields of business. It decides on all matters of strategic importance to these fields. The members of this committee are the members of the Group Committee, the heads of the fields of business and the Head of Group Development (non-voting member).

Changes on the Board of Management

Once Nikolaus von Bomhard had expressed his wish to retire after the 2017 Annual General Meeting, the Personnel Committee and the plenary sessions of the Supervisory Board intensively explored the question of his successor. On 15 March 2016, having discussed the conceivable alternatives in depth, the Supervisory Board appointed Joachim Wenning to be Nikolaus von Bomhard's successor as Chairman of the Board of Management of Munich Re with effect from 27 April 2017. Joachim Wenning had been responsible for worldwide life reinsurance business on the Board of Management since the beginning of 2009; he had also been responsible for Human Resources since 1 October 2013 and had served as Labour Relations Director since that time. With effect from 27 April 2017, in addition to his role as Chairman of the Board of Management, Joachim Wenning also assumed responsibility for the units previously reporting to Nikolaus von Bomhard.

Changes on the Supervisory Board

With effect from the end of the 2016 Annual General Meeting, Clement B. Booth was elected to the Supervisory Board as successor to Anton van Rossum. Ann-Kristin Achleitner was elected to the Audit Committee as successor to Anton van Rossum with effect from the end of the 2016 Annual General Meeting. Wolfgang Mayrhuber retired from the Supervisory Board with effect from 31 December 2016. Renata Jungo Brüngger was appointed to the Supervisory Board by an order of the Amtsgericht (Local Court) of Munich dated 3 January 2017, and was elected to the Supervisory Board by the Annual General Meeting on 26 April 2017.

B 1.2 Main duties and responsibilities of the key functions

The following four Group-wide key functions have been implemented at Munich Re:

Compliance

The Group Chief Compliance Officer (GCCO) is Head of Group Compliance (GComp) and is responsible for the compliance function at Munich Re. The GCCO has an unrestricted right to full disclosure of and access to all information required for the discharge of his compliance duties. GComp is responsible for the compliance function at Group level and at Munich Reinsurance Company level.

The GCCO compiles a written annual compliance report for the Board of Management and the Audit Committee of the Supervisory Board of Munich Reinsurance Company. This report includes compliance topics, incidents and risks of legal changes of relevance for the Group, the status of

implementation of the Group-wide compliance management system (CMS) and other developments relevant for compliance.

You will find a detailed description of the main duties and responsibilities in section B 4.3.

Internal audit

Group Audit is responsible for the internal audit function at Group level and at Munich Reinsurance Company level. As an independent control function, Group Audit is responsible for reviewing and assessing the effectiveness and efficiency of the internal control system and of all other components of the system of governance at Munich Re. It prepares independent and objective analyses and recommendations for the Board of Management and senior management, and provides information on the audited activities.

A description of the authorities and independence of the internal audit function is available in section B 5 Internal audit function.

Risk management function

The Group Chief Risk Officer (Group CRO) is Head of Integrated Risk Management (IRM) and is responsible for the risk management function (RMF). In this role, the Group CRO is responsible for organising and implementing an adequate risk management system at Group level and at Munich Reinsurance Company level. This includes developing the risk strategy, assessing all risks throughout the Group, and ensuring the adequacy of risk management processes.

The independence of the RMF is safeguarded, and laid down in the Policy on Cooperation and Governance at Munich Re (Group). The RMF is supported by decentralised risk management units. You will find a detailed description of the main duties and responsibilities of the RMF in section B 3.2.

Actuarial function

The Head of IRM1.2 Risk Analytics & Reporting is responsible for the actuarial function (AF). The AF is in charge of all activities by the actuarial functions at Group level and at Munich Reinsurance Company level.

The independence of the AF, in particular from the RMF, is safeguarded and laid down in the Policy on Cooperation and Governance at Munich Re (Group). To discharge its duties, the AF works in close collaboration with the internal actuarial services of the fields of business. The main duties and authorities, and basis of collaboration, are described in section B 6.

The human resources available for all key functions are sufficient in order to meet the internal and external requirements with regard to the adequate performance of the respective function. We also consider the budget and non-monetary resources available to be adequate overall.

B 1.3 Compensation

B 1.3.1 Principles of the compensation policy

The Munich Re Group Compensation Policy (MR GCP) sets uniform and generally applicable standards for compensation policy at Munich Re (Group). Existing compensation policies at the undertakings of Munich Re (Group) remain in force and apply in addition to the MR GCP. The standards comprise substantive, procedural and formal requirements. The object of the MR GCP is to implement the regulatory requirements resulting from Solvency II in accordance with uniform principles for Munich Re (Group). The undertakings of Munich Re (Group) that are obliged to implement these requirements must supplement the MR GCP, formally authorise it as an independent compensation policy and implement it within the undertaking.

Pursuant to the MR GCP, the remuneration schemes of Munich Re (Group) must be established, implemented and maintained in line with the respective undertaking's business and risk management strategy, its risk profile, objectives, risk management practices and the long-term interests and performance of the undertaking as a whole (sustainable remuneration). The remuneration schemes must also incorporate measures aimed at avoiding conflicts of interest. Furthermore, the remuneration schemes must promote effective risk management and must not encourage risk-taking that exceeds the risk-tolerance limits of the undertaking.

Pursuant to the MR GCP, specific agreements must be concluded for a group of individuals that includes AMSB members, persons who effectively run the business, key functions and risk takers. These agreements must take the following into account in particular:

Where the remuneration schemes for this group of individuals include both fixed and variable components, such components must be balanced so that the fixed or guaranteed component represents a sufficiently high proportion of the total remuneration. This ensures that employees are not overly dependent on the variable components.

The payment of a substantial portion of the variable remuneration component must contain a flexible, deferred component that takes account of the nature and time horizon of the undertaking's business. This deferral period must be no less than three years and must be aligned with the nature of the business, the risks, and the activities of the employees in question. Further general requirements and specific agreements are regulated by the MR GCP.

AMSB

The principles for the members of the AMSB of Munich Reinsurance Company are documented in the Compensation Policy of Munich Reinsurance Company. For the members of the AMSB of other undertakings belonging to Munich Re (Group), the principles are set out in the compensation policy of the individual undertaking. All compensation policies of Munich Re (Group) must be in line with the aforementioned principles of the MR GCP.

Employees

The principles for the employees of Munich Reinsurance Company are also documented in the Compensation Policy of Munich Reinsurance Company.

Another policy sets out the principles of compensation and contract terms for top managers in the international organisation of Munich Re.

The Human Resources Policy regulates not only the compensation of all employees that are not covered by the Compensation Policy for top managers in the international organisation of Munich Re, but also other benefits after termination of employment, lump-sum settlements, succession planning and staff development. The Human Resources Policy is in line with regulations at Munich Re and with the MR GCP. The remuneration components are regulated by internal company agreements.

The remuneration scheme at ERGO is based on legal requirements and regulations. The principles of compensation are described in the policy on compensation and fringe benefits of employees and senior executive staff of ERGO Group AG.

B 1.3.2 Individual and collective performance criteria AMSB

Details on the structure of the remuneration system for the Board of Management of Munich Reinsurance Company and on the parameters used are available in Annex Z, Remuneration report.

Members of the Supervisory Board of Munich Reinsurance Company receive fixed remuneration only. For members of the AMSB of Munich Re (Group) whose variable remuneration is performance-related, the total amount of the variable remuneration is based on a combination of assessments of the performance of the individual and of the divisional unit concerned on the one hand, and the overall performance of the relevant undertaking or the Group on the other. Financial and non-financial criteria must be taken into account as part of the assessment of an individual's performance.

Employees

The remuneration structure for the risk takers in the international organisation is largely geared to the remuneration scheme for members of the Board of Management of Munich Reinsurance Company.

The remuneration structure for risk takers on international assignments is largely geared to the remuneration scheme for senior executive staff of Munich Reinsurance Company.

Senior executive staff

The fixed components for Munich Reinsurance Company senior executive staff (including holders of key functions) comprise a fixed annual basic remuneration, paid out as a monthly salary, plus standard market fringe benefits and

remuneration in kind (most notably a company car and a company pension scheme). The variable components are made up of the short-term components "performance-related bonus" and "Company result bonus", and the share-price-linked component Mid-Term Incentive Plan.

The performance-related bonus is based on quantitative and qualitative objectives. We use indicators from operative planning for the quantitative objectives, while personal objectives are agreed on for the qualitative portion.

The Company result bonus gives employees a share in corporate success. The key indicator used for the Company result bonus is the return on risk-adjusted capital (RORAC).

The targets correspond to the Group objective for the variable remuneration of members of the Board of Management.

Depending on the degree to which the RORAC target is met, an aggregate amount is calculated that can be distributed among staff as a bonus. The higher the management level, the higher the share of the Company result bonus in the staff member's total remuneration. The way this bonus works ensures that the performance of Munich Re as a whole is systematically reflected in the remuneration of all staff and that the bonus amount bears a reasonable relationship to overall corporate performance.

The Mid-Term Incentive Plan, with a duration of three years, provides senior executive staff with a share in the Company's sustainable added value and is based on the same quantitative multi-year targets as the multi-year bonus of the members of the Board of Management of Munich Reinsurance Company. In addition, the development of the total shareholder return is taken into account. By measuring the objectives and the total shareholder return over a period of three years, a flexible deferred component is achieved under the Mid-Term Incentive Plan. A downwards adjustment for exposure to current and future risks is included.

Besides the senior executive staff in Munich, selected executives in Munich Reinsurance Company's international organisation also participate in the Mid-Term Incentive Plan.

The individual variable components are granted – subject to different weightings – at all management levels. For the first management level below the Board of Management, the share of aggregate variable remuneration is more than 50% of total remuneration (fixed remuneration plus all variable components). Proceeding down the management hierarchy, this percentage decreases successively, making up around one-third at the lowest management level. There is a well-balanced combination of short- and long-term components. At the first management level below the Board of Management, the Mid-Term Incentive Plan makes up around 25% of total remuneration, or more than 50% of overall variable remuneration, so that there is provision for a longer-term incentive system. No guaranteed variable remuneration components are granted.

A total remuneration approach is applied to senior executive positions at ERGO. This includes not only basic and variable remuneration components but also provision for old age. The basic remuneration depends on the position, responsibility and individual experience of the staff member and is paid out as a monthly salary.

Variable remuneration components at ERGO take account of individual performance and the performance of the undertaking, in particular significant risks and their time horizon. The fixed and variable components are balanced. The share of the variable remuneration in the cash compensation must amount to 15–45%, depending on the responsibilities of the position. In addition, senior executive staff receive an adequate level of remuneration in kind compared with the market.

Non-executive staff

The fixed components for Munich Reinsurance Company non-executive staff comprise a fixed annual basic remuneration, paid out as a monthly salary and as a holiday and Christmas bonus, plus standard market fringe benefits and remuneration in kind. The variable components are made up of the short-term components "performance-related bonus" and "Company result bonus".

The variable components correspond to those of senior executive staff.

All other international staff in the reinsurance and Munich Health fields of business are paid an annual Company result bonus, 50% of which is based on global financial performance indicators. The other 50% is based on local or regional value-based management indicators. Non-executive staff must also undergo individual performance appraisals on which their annual bonus payment depends. For this purpose, objectives are agreed with the staff member's manager at the beginning of the appraisal period, and the achievement of these objectives is appraised at the end of that period.

Non-executive positions at ERGO are appraised in accordance with standardised criteria that are anchored in the salary and collective bargaining agreement for the private insurance industry, and they are allocated to a pay-scale agreement category. Non-executive staff are subject to the relevant rules agreed between the collective bargaining parties.

In addition, internal company agreements apply, which have been negotiated and concluded with the co-determination committees at local or regional level. Non-executive staff receive fringe benefits that are described in the collective bargaining agreements for the private insurance industry and in internal company agreements concluded with the co-determination committees.

B 1.3.3 Supplementary pension or early retirement schemes

AMSB

Members of the AMSB of Munich Re (Group) are generally entitled to pension benefits from a defined contribution plan. Early retirement schemes are geared to the respective country-specific circumstances. Details on supplementary pensions or early retirement schemes for members of the Board of Management of Munich Reinsurance Company are available in Annex Z Remuneration report.

Members of the Supervisory Board of Munich Reinsurance Company are not entitled to pension benefits.

Senior executive staff

Senior executive staff of Munich Reinsurance Company (including holders of key functions) are entitled to pension benefits from a defined contribution plan funded by means of insurance contracts. The amount of the pensions is based on the insurance cover and generally depends on salary and length of service. The benefits include disability and old-age pensions, and pensions for surviving dependants. They are paid out in the form of annuities.

Senior executive staff receive an old-age pension if they leave the Company after reaching the age of 63. The amount of the old-age pension is based on the insurance cover when the benefit stage is reached. Senior executive staff may also receive early retirement benefits from age 62. If employment commenced prior to 1 January 2012, early old-age pension benefits will be paid from age 60 rather than 62. The amount of early retirement benefits is based on the insurance cover when the benefit stage is reached.

If a disability is deemed to exist under the terms of the insurance cover, the senior executive will receive an occupational disability pension. The amount of disability pension depends on the amount of the insured old-age pension, and increases – in excess of a fixed base amount – in line with the staff member's length of service.

Surviving dependants of a senior executive receive 60% of the insured old-age pension, and orphans receive 20% of the insured old-age pension.

If a senior executive leaves the service of the Company before a benefit becomes payable, the rules and regulations of the German Company Pension Act (BetrAVG) apply.

Senior executive staff are also members of the Munich Re pension scheme, which is a defined contribution plan.

Senior executive staff and non-executive staff at ERGO are entitled to a company pension. Under this pension scheme, benefits for senior executive staff are based on individual contractual agreements in the staff member's employment contract.

B 1.4 Material transactions

The Company has to be notified promptly of the acquisition or sale of Company shares (or financial instruments based on these) by members of the Board of Management and Supervisory Board and by specified persons closely related to or connected with them. This notification must take place for acquisition and sales transactions totalling €5,000 or more in a single calendar year.

Munich Reinsurance Company publishes information of this kind on its website without undue delay.

Notifiable securities transactions by the members of the Board of Management and the members of the Supervisory Board of Munich Reinsurance Company (publication and notification of transactions pursuant to Section 19 of the Market Abuse Regulation (MAR)) are available at [www.munichre.com/Corporate governance](http://www.munichre.com/Corporate%20governance).

B 2 Fit and proper requirements

B 2.1 Description of the specific requirements

The undertakings of Munich Re (Group) both inside and outside the European Union/European Economic Area (EU/EEA) have been encouraged by the Board of Management of Munich Reinsurance Company to adopt a policy which corresponds to the Fit and Proper Policy of Munich Reinsurance Company. Each undertaking must adapt its policy to local legal requirements where necessary. In the event of a contradiction, local law takes precedence. If the local legal requirements are less stringent than the requirements of the Fit and Proper Policy of Munich Reinsurance Company, the requirements of the latter apply.

The specific requirements of Munich Reinsurance Company concerning skills, knowledge and expertise applicable to the persons who effectively run the undertaking or have other key tasks are based on the supervisory requirements defined in the Solvency II Framework Directive, the associated legal provisions, and the applicable guidelines, guidance notices and other statements issued by the responsible supervisory authorities, in particular the European Insurance and Occupational Pensions Authority (EIOPA) and the German Federal Financial Supervisory Authority (BaFin). These requirements are set out in detail in the Fit and Proper Policy of Munich Reinsurance Company. Further legal requirements of Munich Reinsurance Company concerning skills, knowledge and expertise applicable to the persons who effectively run the undertaking or have other key tasks, are set out in particular in the German Insurance Supervision Act (VAG), the German Stock Corporation Act (AktG), the German Corporate Governance Code, and applicable co-determination rules.

Only persons that have the skills, knowledge and expertise necessary to perform the tasks assigned to them in an orderly manner may be employed to effectively run the undertaking or to be responsible for other key tasks.

The requirements concerning the skills, knowledge and expertise of persons who effectively run the undertaking or have other key tasks depend on the responsibilities they have and the work they do. Where management duties are to be undertaken, experience in management should be taken into consideration. For persons who effectively run the undertaking, sufficient management experience can generally be assumed if they have held a management position for three years at a reinsurance or insurance company of comparable size and with comparable types of business. Such an assumption may generally also be made if a person has managed large business units.

Proportionality is to be applied in meeting the requirements concerning the skills, knowledge and expertise of the persons concerned, taking into account the nature, scale and complexity of the risks associated with the business of the undertaking.

When assessing a person's fitness, proportionality means taking account of the general business, economic and market environment in which the undertaking operates when considering the knowledge and experience required.

The assessment of whether the persons who effectively run the undertaking or perform other key tasks are deemed fit includes an assessment of their professional and formal qualifications, knowledge and relevant experience within the (re)insurance sector, in other financial sectors or in other undertakings, and takes into account the duties assigned to the persons concerned and – where relevant to the position in question – their (re)insurance, financial, accounting, actuarial and management skills.

B 2.1.1 Persons who effectively run the undertaking

The undertakings of Munich Re (Group) both in and outside the EU/EEA must determine individually which persons effectively run the undertaking.

The persons who effectively run Munich Reinsurance Company include the members of the Board of Management and the heads of branches both inside and – pursuant to a decision by the Board of Management – outside the EU/EEA.

Members of the Board of Management have individual responsibility for their divisions and overall responsibility for Munich Reinsurance Company, and must be fit to assume such responsibilities. They must also be able to ensure compliance with the governance requirements at Munich Re (Group) level.

The responsibilities assigned to each individual member of the Board of Management are set out in the distribution of responsibilities. They are documented in the requirement profile for each member of the Board of Management, where the fitness requirements for the function concerned are also described in detail.

Collectively, the members of the Board of Management must have appropriate qualifications, experience and knowledge in the following areas as a minimum:

- Insurance and financial markets
- Business strategy and business model
- System of governance
- Financial and actuarial analysis
- Regulatory framework and requirements
- Internal model (risk model)

Each individual member of the Board of Management must have sufficient knowledge of all areas to be in a position to understand and exercise supervision over the actions of other members of the Board of Management. The specialised knowledge of a member of the Board of Management with regard to a particular division does not affect the collective responsibility of the Board of Management. Any delegation of responsibility within the Board of Management or to subordinate staff does not relieve the Board of Management of collective and final responsibility. When changes are made to the membership of the Board of Management, the collective knowledge of the members of the Board of Management should be maintained at an appropriate level at all times.

The assessment of whether members of the Board of Management are deemed to be fit takes account of the duties assigned to individual members to guarantee appropriate diversity of qualifications, knowledge and relevant experience, thereby ensuring that Munich Reinsurance Company is managed in a professional manner. Overall, members of the Board of Management are deemed to be fit if their professional qualifications, knowledge and experience guarantee the sound and prudent management of Munich Reinsurance Company.

Heads of branches inside and outside the EU/EEA are subject to the aforementioned requirements concerning members of the Board of Management in proportion to

- the influence they are able to exert on decisions at Munich Reinsurance Company,
- the significance of their branch, and
- the ability of the head of a branch to exert specific influence over outcomes, results and decisions.

B 2.1.2 Persons who perform other key tasks

The undertakings of Munich Re (Group) both inside and outside the EU/EEA must determine individually which persons perform other key tasks.

Persons who perform other key tasks at Munich Reinsurance Company include:

- members of the Supervisory Board,
- holders of key functions (risk management function, compliance function, internal audit function and actuarial function) or their deputies. The holders of key functions have overall responsibility for the Group.

Munich Reinsurance Company currently has no staff who perform additional “other key tasks” at Group level, it has not outsourced key tasks, and it has no staff who perform tasks relating to other key tasks of Munich Reinsurance Company and tasks transferred to them that are specific to those key tasks.

Members of the Supervisory Board must always have the experience and knowledge required to exercise appropriate control over and supervise the Board of Management of Munich Reinsurance Company, and to actively oversee the development of the undertaking. In order to fulfil that function, they must understand the business conducted by the undertaking and be able to assess the risks for the undertaking. Members of the Supervisory Board must be familiar with laws and regulations of relevance to the undertaking. Collectively, the Supervisory Board must as a minimum possess knowledge in the areas of investment, underwriting and accounting.

A basic knowledge of risk management specific to insurance contributes to exercising supervision effectively.

Each time a new member of the Supervisory Board is appointed, it is necessary to demonstrate to the Federal Financial Supervisory Authority (BaFin) which members of the Supervisory Board have expertise in the areas of investment, underwriting and accounting.

Maintenance of fitness includes ongoing training to ensure that the members of the Supervisory Board are in a position to meet changing or increasing requirements relating to their responsibilities at the undertaking.

Notwithstanding that, each and every member of the Supervisory Board must possess sufficient theoretical and practical knowledge of all areas of the business to guarantee that appropriate control is exercised. The knowledge and experience of other members of the Supervisory Board are no substitute for the fitness of an individual member. A member of the Supervisory Board does not, in principle, have to have specialist knowledge, but must be capable of recognising when it is necessary to seek advice.

At least one Member of the Supervisory Board must have knowledge in the fields of accounting or audit. The members of the Supervisory Board must collectively be familiar with the sector in which Munich Reinsurance Company operates.

The skills, knowledge and expertise needed to exercise supervision may also have been acquired in the course of exercising (previous) functions in other sectors or in public administration, or political mandates, provided that such functions or mandates involved or involve dealing with economic and legal issues over a prolonged period, and were not or have not been purely secondary in nature.

The assessment of whether members of the Supervisory Board are deemed to be fit must take account of the duties assigned to individual members to guarantee appropriate diversity of qualifications, knowledge and relevant experience, thereby ensuring that Munich Reinsurance Company is supervised in a professional manner. Other specific requirements are set out in the sets of criteria for the shareholder and employee representatives.

Holders of key functions must always be in possession of the professional qualifications, knowledge and experience necessary for them to fulfil their position in the key function. The tasks assigned to each holder of a key function arise from the current responsibilities, and are documented in the requirement profile for each holder of a key function, where the fitness requirements are also described in detail. Collectively, the key functions must guarantee the effectiveness of the system of governance at the undertaking. Deputies of holders of key functions must also be deemed to be fit persons.

B 2.2 Assessment of fitness and propriety

The undertakings of Munich Re (Group) must determine in their respective policies the applicable provisions concerning the assessment of the fitness and propriety of persons who effectively run the undertaking or perform other key tasks.

Munich Reinsurance Company carries out an internal assessment of the fitness and propriety of persons who effectively run the undertaking and perform other key tasks prior to a first appointment, election, assignment of responsibility, or necessary reassessment. A reassessment is performed after a maximum of five years if there have been no grounds for an earlier reassessment. This applies in particular when facts and circumstances give reason to believe that a person may no longer meet the fit or proper requirements, or significant changes are made to the duties assigned. In addition, a reassessment is always carried out when the appointment of a member of the Board of Management is due for renewal and a member of the Supervisory Board is due for re-election.

The assessment or reassessment is carried out on the basis of appropriate documents. When assessing professional qualifications, these documents include a detailed curriculum vitae, employer references and evidence of further training or education. With regard to propriety, these documents comprise the BaFin form "Persönliche Erklärung mit Angaben zur Zuverlässigkeit" (personal declaration with information on propriety), a police certificate of good conduct, and an excerpt from the Gewerbezentralregister (Central Trade Register). The result of the assessment of fitness and propriety and the reasons for the result must be documented.

Munich Reinsurance Company notifies BaFin in writing of the following persons concerned who effectively run the undertaking or perform other key tasks:

- Members of the Board of Management
- Heads of branches in the EU/EEA
- Members of the Supervisory Board
- Holders of key functions

Notification takes place prior to a first appointment, election or assignment of responsibility, on termination of an appointment or assignment of responsibility, or if significant changes are made to responsibilities or job content. On first appointment of or assignment of responsibility to

- members of the Board of Management,
- heads of branches in the EU/EEA,
- holders of key functions.

Munich Reinsurance Company notifies BaFin within two weeks of its intention to appoint or assign responsibility.

At Munich Reinsurance Company, the following bodies and organisational units are responsible for the assessment of the fitness and propriety of the persons who effectively run the undertaking or are responsible for other key tasks:

- The Supervisory Board is responsible for assessing members of the Board of Management and - taking account of the rules of co-determination - of the members of the Supervisory Board.
- The Board of Management is responsible for the assessment of heads of branches in and outside the EU/EEA and of holders of key functions.

The persons concerned have a duty towards Munich Reinsurance Company to cooperate in the assessment of their fitness and propriety. In particular, they must submit to Munich Reinsurance Company all necessary documents and declarations on time, in full and in the required form. Members of the Supervisory Board must additionally submit an annual self-assessment of their fitness.

B 3 Risk management system including the own risk and solvency assessment (ORSA)

B 3.1 Description of the risk management system: strategies, processes and reporting procedures

Organisational structure

Munich Re has set up a system of governance as required under Solvency II. The main elements of this system are the risk management, compliance, audit and actuarial functions. At Group level, risk management is part of the Integrated Risk Management Division (IRM) and reports to the Chief Risk Officer (Group CRO). In addition to the Group functions, there are further risk management units in the fields of business.

Risk governance

Our risk governance ensures that an appropriate risk and control culture is in place by clearly assigning roles and responsibilities for all material risks. Risk governance is supported by various committees at Group and field-of-business level. The Board of Management must consult the risk management function with respect to major decisions.

Group level

The Group Committee (GC) of the Board of Management normally meets as the Group Risk Committee (GRC), on which it is joined by the Chief Risk Officer (Group CRO) of the Group and other persons appointed by the GC that are responsible for risk management in the fields of business. The GRC is responsible for ensuring that risk management and risk governance systems are in place and continuously enhanced at Group level.

The Group Investment Committee is responsible for material risks affecting investments made by the Group, including the assumption and management of specific capital market risks.

The Group Actuarial Committee deals with the adequacy of the methods and assumptions used to calculate technical provisions, and with the uncertainties involved in modelling; it also provides support in assessing the adequacy of the general acceptance policy for underwriting risks.

The Group Compliance Committee deals with compliance risks, reputational issues and risks at Group level. This ensures that we address those risks in a uniform way throughout the Group.

Field-of-business level

Risk governance in reinsurance is ensured at field-of-business level by the Global Underwriting and Risk Committee, and for primary insurance by the ERGO Risk Committee.

Determining the risk strategy

The risk strategy, which is derived from the business strategy, defines where, how and to what extent we are prepared to incur risks. The further development of our risk strategy is embedded in the annual planning cycle, and hence in our business planning. It is approved by the Board of Management, and discussed regularly with the Audit Committee of the Supervisory Board as a material element of the own risk and solvency assessment (ORSA) process.

We determine our risk strategy by defining limits and triggers for a number of risk criteria. These are based on the capital and liquidity available and on our earnings target. The resulting risk tolerances provide a frame of reference for the Group's operating divisions.

Implementation of strategy and the risk management cycle

The risk appetite defined by the Board of Management is reflected in our business planning and integrated into the management of our operations. If capacity shortages or conflicts with the system of limits or regulations arise, defined escalation and decision-making processes are followed. These have been designed to ensure that the interests of the business and risk management considerations are weighed and reconciled with each other as far as possible.

Our implementation of risk management at operational level embraces the identification, analysis and assessment of all material risks. This provides a basis for risk reporting, the control of limits and monitoring. Risk identification is performed by means of appropriate processes and indicators, which are complemented by expert opinions and assessments by selected, highly experienced managers.

The identification of risks also covers emerging risks, i.e. those that change or arise as a result of legislative, socio-political, scientific or technological changes, and that may have unidentified or unquantified effects on our portfolio. The degree of uncertainty as to the extent of damage and probability of occurrence is high for these risks.

Risk analysis and assessment are carried out at the highest level in IRM on the basis of a consolidated Group view. Overall, IRM ensures that a quantitative and qualitative assessment of all risks at consolidated Group level is provided, and that it considers possible interactions between risks.

Internal risk reporting provides the Board of Management with regular information on the risk situation, as regards the individual risk categories and the entire Group alike. This ensures that negative trends are identified in sufficient time for countermeasures to be taken. The purpose of our external risk reporting is to provide clients, shareholders and the supervisory authorities with a clear overview of the Group's risk situation.

The actual risk limits are derived from the risk strategy. Taking the defined risk appetite as a basis, limits, rules and any risk-reducing measures required are approved and implemented. We also have a comprehensive early-warning system that draws our attention to any potential shortages of capacity.

Quantitative risk monitoring based on indicators is carried out both centrally and within units. We monitor risks that cannot be expressed directly as an amount either centrally or in our units, depending on their materiality and allocation.

The risk management system is regularly audited by Group Audit, which carries out annual audits of various functions in accordance with its audit plan.

Control and monitoring systems

Our internal control system (ICS) is described in section B 4.

B 3.2 Risk management function

The risk management function (RMF) is one of four key functions within (re)insurance undertakings under Solvency II. The RMF at Munich Re is carried out locally in the individual fields of business, at MEAG – the asset manager of the Group – and in the individual insurance undertakings of the Group, as well as centrally by the central division Integrated Risk Management (IRM).

IRM is responsible for an integrated and Group-wide view of all risks. Its responsibility encompasses the recognition of all relevant risks, the quantification of capital requirements and a qualitative risk management process, including the development of the Group's risk strategy.

IRM is responsible for the following in particular:

- Risk identification and control
- Group-wide risk transparency
- Group-wide emerging risk management
- Internal control system and operational risk management
- Group-wide accumulation control
- Information security and business continuity risk management
- Risk measurement and reporting
- Development and maintenance of the Munich Re capital model
- Calculation of risk capital
- Allocation of risk capital for management purposes (in coordination with the gatekeeper process defined by Reinsurance Controlling)
- Scenario calibration
- Risk strategy including the definition of limit and trigger values (risk tolerance) and the ORSA
- Development of replication portfolios for measuring market risk and managing assets (for the reinsurance group)
- Risk governance

B 3.3 Governance of the internal model

IRM informs the Board of Management and Supervisory Board of Munich Reinsurance Company on an ongoing basis about the correct functioning of the Group-wide internal model. The Group Risk Committee is informed annually by IRM about the results of the validation. It is the responsibility of the Group Risk Committee to guarantee that Munich Re has adequate systems in place for identifying and measuring risks at Group and segment level. This includes the setting of principles and minimum requirements that apply throughout the Group for the development of risk models and systems.

The results of the validation are included in the annual ORSA (see section B 3.5) and are critically queried and approved by the Board of Management of Munich Reinsurance Company. Validation is largely carried out by internal staff in the risk management function of Munich Reinsurance Company and ERGO Group AG on the basis of a guideline applicable throughout the Group.

The actuarial function supports the RMF, in particular in shaping and implementing the internal model, for instance with regard to homogeneous risk groups or significant risks. The actuarial function also provides its actuarial expertise when testing and validating the internal model.

To ensure the necessary regular exchange of information between the key functions of the Group, the heads of the key functions regularly share important findings, for instance in the form of reports.

B 3.4 Implementation of the risk management system in the Group

We implement risk management consistently throughout the Group with the help of local risk management functions. The risk management objectives and principles define the basic framework for a consistent application of risk management standards throughout the Group. Strict adherence to these principles, risk management components and functions may pose a challenge in smaller-sized Group undertakings with limited human resources. In these instances, practical and pragmatic solutions are sought in adherence with the principle of proportionality. This means that the minimum requirements with regard to risk management must always be met taking into account undertaking-specific risks and the nature, size and complexity of the undertaking and its operations.

There is a clear assignment of roles and responsibilities between the central risk management function at Group level (central function) and the risk management function at individual undertakings (local units). The central function develops a framework and sets standards, ensures consistent methods, defines risk appetite and permanently ensures a common risk culture. The local units adapt and implement the framework. They act within guidelines, incorporate local specifics (e.g. legal requirements and provisions) and provide local knowledge. Further principles are:

- Standardised risk management set-up for undertakings in terms of risk management components
- Representation at Board level: Reporting directly to a member of the local board of management (e.g. the Chief Financial Officer, CFO, or Chief Executive Officer, CEO) or the local board or senior management
- Functional pooling of risk management, e.g. a joint CFO and Chief Risk Officer (CRO), depending on the size/complexity of the undertaking
- The relationship between the local risk management function and IRM is formally defined by a cooperation agreement (functional reporting concept)

In the primary insurance and reinsurance fields of business, important risk management structures, concepts and components such as the ICS and legal entity capital models have been implemented to a large degree in the bigger undertakings with complex risk situations.

B 3.5 Own risk and solvency assessment – ORSA

The ORSA encompasses processes in the area of risk management, business strategy/planning and capital management. The main task of the ORSA is to combine these processes, to collect and assess the outcome of the individual processes and to report these results at regular intervals.

It lies within the responsibility of the Group CRO to carry out the Group ORSA. The adequacy of the ORSA framework and the ORSA policy is reviewed by the Group Risk Committee on an annual basis. The Group Risk Committee (GRC) recommends to the Board of Management that they give final approval of the document.

The results and findings of the individual procedures and processes throughout the year serve as the basis for the ORSA result report. Once the ORSA has been performed and the results have been challenged and approved by the Board of Management, communication of the results and conclusions is ensured by the Group CRO (or local head of risk management).

Certain circumstances may require a non-regular ORSA. Changes in internal and/or external factors leading to a fundamental change in the risk profile and/or own funds of Munich Re, may trigger the need for an ORSA outside the regular time-scale. The results of the non-regular ORSA are reported without delay to the group supervisor outside the regular reporting dates.

The ORSA is closely linked to the Group-wide planning process, the main element of the Group-wide risk strategy and the respective decision-making processes.

The regular ORSA activities associated with the business planning process are conducted annually. The risk and solvency position is monitored on a quarterly basis. The required frequencies for the entirety of processes that contribute to the regular ORSA are defined individually.

The ORSA results and conclusions of the business planning process are submitted to the Board of Management on an annual basis. Findings from regular risk and solvency monitoring activities that are relevant to the ORSA are included in the quarterly internal risk report.

The ORSA report is discussed with the Audit Committee of the Supervisory Board. The main findings and conclusions of the ORSA are presented to the Supervisory Board.

B 3.6 Interaction between capital and risk management

We manage our business on the basis of a consolidated Group view, using a comprehensive internal model to determine the capital needed to ensure that the Group is able to meet its commitments even after extreme loss events. We use the model to calculate the capital required under Solvency II (the solvency capital requirement, or SCR). The SCR is the amount of eligible own funds that Munich Re needs to have available, with a given risk tolerance, to cover unexpected losses in the following year.

The internal model is used for carrying out the ORSA. Further capital requirements (e.g. rating capital) are taken into account accordingly.

Other Munich Re undertakings use either the internal model where available or the standard formula under Solvency II to calculate their solvency capital requirement.

The forward-looking assessment of capital adequacy is based on projections of own funds and capital needs over the business planning time horizon. Where necessary, this information may be complemented by an assessment based on other capital requirements (e.g. rating capital). To this end, the respective models are calibrated to the best estimate exposures from the planning process. The target capitalisation levels are set out in the risk strategy of Munich Re.

Capital adequacy is assessed on a quarterly basis.

The ORSA identifies the potential capital needed to manage Munich Re according to its risk and business strategy.

More specifically, the outcome of the ORSA feeds into the development of a capital management plan over the business planning time horizon.

To sum up, the risk strategy, business strategy and capital management of Munich Re are closely interlinked. In the event that the risk strategy and business planning requirements do not tally, conformity can be achieved by means of capital management.

B 4 Internal control system

B 4.1 Description of the internal control system

Our internal control system (ICS) is an integrated system for managing operational risks that covers all risk dimensions and areas of the Group. It addresses Group management requirements, while complying with local regulations.

For each field of business, the ICS delivers a risk map at process level, thereby systematically linking every step in a process to the significant risks and the controls relating to them. By making our risk situation transparent in this way, we can react to weaknesses in a targeted manner. This enables us to identify operational risks at an early stage, locate control shortcomings immediately and take effective remedial action.

Controls carried out for the ICS at undertaking level are based on recognised internal control standards.

The Audit Committee of the Supervisory Board regularly requests reports on the effectiveness of the ICS and on changes to the risk and control landscape compared with the previous year. The reports describe the controls applied and state whether all controls considered necessary have been carried out correctly.

The reports of our external auditors and Group Audit support this.

The identification, management and control of risks arising out of the accounting process is indispensable for the production of reliable annual financial statements at both consolidated and solo-undertaking level. Risks significant for financial reporting from a Group perspective are integrated into the ICS in accordance with uniform criteria. The ICS risk map is checked annually by the risk takers, and updated and amended as necessary.

B 4.2 Implementation of the ICS

The standardised ICS methodology has been implemented throughout Munich Re. The decision about whether to include a Group undertaking in the standardised ICS was taken on the basis of the principle of proportionality – with due consideration being given to the nature, scale and complexity of the risks inherent in the undertaking's operations, and to compliance with regulatory and legal requirements. The Group undertakings that have not been integrated into the ICS standard process control their risks in compliance with Group-wide principles of risk management and national laws.

B 4.3 Description of the compliance function

The Board of Management of Munich Reinsurance Company has assigned the development, implementation, monitoring and ongoing improvement of the Group-wide compliance management system (CMS) to the compliance function. The Board of Management of Munich Reinsurance Company expects the legally independent undertakings of the Group to implement these requirements accordingly.

It is the responsibility of the compliance function to define the necessary organisational measures for compliant behaviour at Munich Re for top management, senior management and staff, and to monitor compliance with these measures. Where there is a reasonable suspicion of non-compliant behaviour or there are doubts about compliance with legal or regulatory requirements, the Group Chief Compliance Officer (GCCO) can initiate measures or an investigation by Group Audit, Group Legal or external consultants. If the compliance requirements are not met, the GCCO reports the matter to the Board of Management or to the responsible member of the Board of Management of the affected undertaking.

To this end, the compliance function has set up an adequate Group-wide compliance organisation that takes into account the relevant structure, business, risks and special features of the business model of Munich Re, and performs the following tasks:

- The early-warning function comprises an assessment of the effects of emerging legal changes on Munich Re. In this context, the undertakings of Munich Re regularly report on changes in their legal environment (risk of legal change). These are assessed by the compliance function at Group level. Where necessary, follow-up measures are taken.
- Risk control duties include the identification, assessment and monitoring of compliance risks within Munich Re. There is a process that identifies risks and defines adequate measures for their clarification, solution and mitigation, and follows up the implementation of these measures.
- Monitoring duties refer to compliance with the relevant legal, regulatory and internal rules and regulations within Munich Re. The compliance organisations of Munich Re develop suitable compliance controls and monitor risk-based compliance with these controls.
- The compliance function of Munich Re and the Group-wide compliance organisation provide advice and training for top and senior management, managers and staff with regard to compliance issues.

Group Compliance manages the compliance activities of Munich Re by means of Group-wide terms of reference, and monitors their implementation on the basis of the compliance management system (CMS). The CMS is the methodological framework for the structured implementation of early warning, risk control, consulting and monitoring tasks, and the monitoring of the legal environment.

The seven core areas of the CMS are: Compliance culture and strategy, compliance risk management, organisation and procedures, consulting, communication and training, compliance reporting, monitoring and testing, and documentation of compliance activities.

Each core area comprises different undertaking-specific compliance activities. The scale and nature of implementation of these compliance activities focuses on the size of the respective undertaking, and the nature and scale of the business. Irrespective of its organisational set-up, each undertaking belonging to the Group must

have appropriate organisational measures in place in order to ensure that legal, regulatory and internal requirements are complied with, including but not limited to the following compliance topics:

- Financial crime
- Financial sanctions
- Antitrust law
- Data protection law
- Conflicts of interest, including gifts and hospitality

At the instigation of the Board of Management of Munich Re, the compliance whistleblowing portal was set up as another channel to complement the independent external ombudsman, and thus strengthen compliance within Munich Re. Staff and third parties can use this portal to anonymously report suspected criminal behaviour such as bribery and corruption, contraventions of antitrust laws, insider trading rules and data protection laws, and other activities that may cause reputational damage.

B 5 Internal audit function

B 5.1 Mandate of Group Audit

Group Audit supports the Board of Management in performing its monitoring tasks by auditing all functions and processes, including the system of governance.

Organisational set-up

Group Audit is an independent central division of Munich Reinsurance Company. The Head of Group Audit reports directly to the Chairman of the Board of Management of Munich Reinsurance Company.

Some undertakings of Munich Re (Group) have their own audit units to do the audit work. Functionally, these are downstream audit units of Group Audit that have a direct administrative reporting line to the boards of management of the individual undertakings. These downstream audit units have a functional reporting line to the Head of Group Audit.

Main duties

Guidelines: A uniform management framework for all Munich Re audit units, including Group Audit itself, is based on the following binding requirements:

- Minimum requirements regarding the specific form of the audit function
- Minimum requirements for internal investigations
- Uniform processes, procedures and methods, instruments, software and standards for planning and executing audits (audit reports, quarterly and annual reports), measures tracking and quality management
- Reporting duties of downstream audit units

Audit work: Group Audit is responsible for auditing all functions and processes, including the system of internal governance. This also comprises the risk management system and internal control system (ICS), and the other Solvency II key functions. The audit mandate of Group Audit, as the internal audit function of Munich Re, directly covers the reinsurance and Munich Health fields of business, as well as MEAG MUNICH ERGO Asset Management GmbH and its subsidiaries. The audit mandate of Group Audit also encompasses topics concerning the Group as a whole, and topics that are relevant for the management and risk management of Munich Re.

Group Audit conducts its audits on the basis of the guidelines applicable throughout the Group.

B 5.2 Independence and objectivity

The management and staff of Group Audit are aware of the national and international regulatory requirements and standards for professional internal audit practice, and they comply with these in carrying out their duties. This includes the principles and rules governing the independence and objectivity of the internal audit function. An appropriate position in the organisational structure, a strict segregation of duties, and comprehensive quality assurance for audits ensure that the independence and objectivity of the internal audit function is adequately protected.

We are not aware of any undue influence on the audit function that might have compromised its independence and objectivity in carrying out its duties in the year under review.

Independence

Group Audit is not subject to any instructions in planning and performing audits, or in evaluating and reporting the audit results.

The right of the Board of Management to request additional audits does not compromise the independence of Group Audit. Group Audit has the right to carry out ad-hoc audits outside the approved annual planning schedule. Group Audit is obliged to follow instructions only from the Board of Management or Chairman of the Board of Management of Munich Reinsurance Company.

The Head of Group Audit has the opportunity to draw attention to situations in which the independence of the internal audit function is endangered.

Objectivity

The staff working in Group Audit are not entrusted with non-audit work. Under no circumstances do they perform tasks that are incompatible with the audit function. Staff from other departments of the undertaking may not be entrusted with internal audit tasks. However, this does not rule out external staff working for Group Audit temporarily on the grounds of their specialist knowledge or for personal development purposes.

When assigning audit staff to audits, care is taken to ensure that no conflicts of interest arise, and that auditors are able to perform their tasks impartially and without prejudice. It is also ensured that an auditor does not audit any area for which they were responsible or shared responsibility in the preceding 12 months. Staff do not manage or work on projects outside Group Audit.

B 6 Actuarial function

Since 1 April 2013, the actuarial function of Munich Re has been part of the central division Integrated Risk Management that is within the responsibility of the Chief Financial Officer of Munich Reinsurance Company. The actuarial function of the Group also serves as the actuarial function of Munich Reinsurance Company. It defines standards and basic rules for the actuarial functions of all fields of business with regard to Solvency II. The actuarial function of Munich Re is responsible for the following:

- Coordinating the calculations of technical provisions and their regular review
- Ensuring the appropriateness of the methodologies and underlying models used, as well as of the assumptions used in the calculation of the technical provisions
- Assessing the sufficiency and quality of the data used to calculate the technical provisions
- Expressing an opinion on the overall underwriting policy
- Expressing an opinion on the adequacy of the reinsurance agreements of the Group
- Preparing a written report for the management and supervisory bodies

For the segments property-casualty reinsurance, life reinsurance, ERGO and Munich Health, individual segment actuarial functions have been put in place that carry out responsibilities of the actuarial function in their respective areas. The heads of the relevant central divisions have a direct functional reporting line to the Group actuarial function.

The EEA Group companies have their own actuarial functions in place. The actuarial functions of the undertakings allocated to the ERGO and Munich Health fields of business have a direct functional reporting line to the respective segment actuarial function; the actuarial functions for the reinsurance field of business have a direct functional reporting line to the Group actuarial function and also work together with the segment actuarial functions.

The actuarial function of Munich Re notifies the Board of Management of its main activities and their outcome in writing once a year in the Group Actuarial Function Report. Severe events regarding the aforementioned responsibilities are reported by the Group actuarial function on an ad-hoc basis to the Group Committee of the Board of Management. The Group Actuarial Function Report is also submitted to the Audit Committee of the Supervisory Board.

B 7 Outsourcing

B 7.1 Outsourcing policy

In accordance with the relevant supervisory requirements, the Board of Management of Munich Reinsurance Company has adopted a policy defining the minimum requirements for outsourcing (re)insurance activities and functions to service providers. This outsourcing standard, which applies directly to Munich Reinsurance Company, has been communicated as a Group-wide standard throughout Munich Re (Group), and is monitored accordingly.

The outsourcing policy of Munich Reinsurance Company describes the principles, minimum requirements, responsibilities, processes and reporting requirements to be adhered to during all stages of the outsourcing process, i.e. planning, implementation and termination (including contingency planning) of the relevant organisational measures. In accordance with the principle of materiality, and depending on the risks identified in each case, Munich Reinsurance Company may set different requirements for the granularity of the measures and processes in order to adequately ensure the continuity and unimpaired quality of the outsourced services at all times.

B 7.2 Outsourcing of critical or important operational activities or functions

Munich Re outsources important (re)insurance activities and functions within the Group and to external service providers. An indicator for important outsourcing is when a Group member outsources an essential part of its (re)insurance activities and functions to a service provider, and the respective Group member is no longer fully capable of delivering its services to policyholders without the outsourced activity or function. From the perspective of Munich Re (Group), on the other hand, the outsourcing is classified as important if it may also cause material risks for Munich Re (Group).

Munich Re (Group) has high expectations and standards regarding service provision, irrespective of whether the services are provided by internal service providers (intra-Group outsourcing) or by external service providers outside the Group. Nevertheless, different internal processes are applied for selecting and managing service providers in each case.

The outsourcing relationships are governed by the laws of the Federal Republic of Germany.

List of important outsourcing activities of Munich Re (Group)

Name of service provider	Scope of outsourcing
MEAG AMG	Outsourcing of asset management of Munich Re (Group).
ERGO Group AG	Outsourcing of important insurance activities and functions of the German insurance undertakings in the ERGO field of business.
ERGO Beratung und Vertrieb AG	Outsourcing of the operations of the German insurance undertakings within the ERGO field of business to a central sales entity.

B 8 Any other information

B 8.1 Assessment of the adequacy of the system of governance

Munich Re has a system of governance that is adequate for the nature, scale and complexity of the risks inherent in its business. Its organisational structure is transparent, and there is a clear allocation of tasks and responsibilities. The organisational structure of the entities within the Group is documented, and updated on a regular basis.

The entities of the Group comply with the organisational principle of an adequate segregation of responsibilities. An effective internal communication system is in place. Clear functional and disciplinary reporting lines ensure the prompt transfer of information to all persons who need it in a way that enables them to recognise its importance as regards their respective responsibilities. The adequacy of Munich Re's organisational structure is reviewed on a regular basis by the organisational function at Group and field-of-business level.

The key risk management, compliance, internal audit, and actuarial functions are in place at Munich Re. They perform

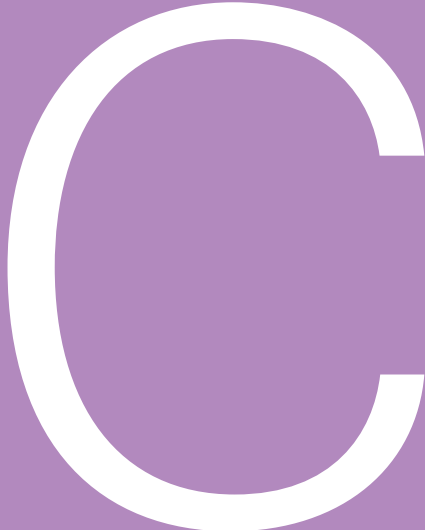
their tasks in accordance with supervisory requirements for the respective key function. The responsibilities of the key functions are defined at Group level, and at the level of the individual fields of business or entities of the Group. Outsourced key functions are monitored by the entities concerned in line with requirements.

The terms of reference regarding Munich Re's operational structure, and the responsibility for meeting these terms, are defined in a policy. Processes that are subject to material risks must fulfil the requirements set out in the policy regarding documentation and communication. Business continuity plans have been developed and implemented.

The Board of Management complies with its responsibility for checking the adequacy of the system of governance on a regular basis. In addition, all Group-wide key functions perform regular self-assessments.

B 8.2 Any other material information regarding the system of governance

For the reporting period, there is no other material information regarding the system of governance of Munich Re.



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C Risk profile

C 1 Underwriting risk

C 1.1 Property-casualty

C 1.1.1 Risks and their assessment

The property-casualty risk category encompasses the underwriting risks in the property, motor, third-party liability, personal accident, marine, aviation and space, and credit classes of insurance, together with special lines also allocated to property-casualty.

Underwriting risk here is defined as the risk of insured losses being higher than our expectations. The premium and reserve risks are significant components of the underwriting risk. The premium risk is the risk of future claims payments relating to insured losses that have not yet occurred being higher than expected. The reserve risk is the risk of technical provisions established being insufficient to cover losses that have already incurred. In measuring loss provisions, we follow a cautious reserving approach and assess uncertainties conservatively. In every quarter, we also compare notified losses with our loss expectancy, in order to sustain a high level of reserves.

We differentiate between losses involving a cost exceeding €10m in one field of business (large losses), losses affecting more than one risk or more than one line of business (accumulation losses), and all other losses (basic losses). For basic losses, we calculate the risk of subsequent reserving being required for existing risks within a year (reserve risk) and the risk of underpricing

(premium risk). To achieve this, we use explicit analytical methods (in the reinsurance field of business) and simulation-based approaches (in the ERGO field of business) that are based on standard reserving procedures, but take into account the one-year time horizon. The calibration for these methodologies is based on our own historical loss and run-off data. Appropriate homogeneous segments of our property-casualty portfolio are used for the calculation of the reserve and premium risks. To aggregate the risk to whole-portfolio level, we apply correlations that take account of our own historical loss experience.

The underwriting solvency capital requirement for property-casualty can be seen in the table "Solvency capital requirements (SCR) – Property-casualty".

The solvency capital requirement for property-casualty at Group level rose by €423m. With respect to large and accumulation losses, this was mainly due to the appreciation of the US dollar against the euro – which led to an increase in exposure and therefore also in the risk in euro terms for some major natural hazard scenarios. This risk can also be seen with respect to basic losses.

C 1.1.2 Risk concentration

Our internal model considers the accumulation-risk scenarios as independent events.

As in 2016, the largest natural catastrophe exposure for Munich Re is the €4.4bn currently retained for the "Atlantic Hurricane" scenario (value at risk for a 200-year return period). The diagrams on the following page show our estimated exposure to the peak scenarios for a return period of 200 years.

Solvency capital requirements (SCR) – Property-casualty

	Reinsurance		ERGO		Diversification	
	31.12.2016	Prev. year	31.12.2016	Prev. year	31.12.2016	Prev. year
	€m	€m	€m	€m	€m	€m
Basic losses	3,601	3,510	330	319	-217	-213
Large and accumulation losses	6,130	5,667	201	207	-153	-146
Subtotal	9,731	9,177	531	526	-	-
Diversification effect	-3,043	-2,930	-149	-164	-	-
Total	6,688	6,247	381	362	-311	-273

→	Group			
	31.12.2016	Prev. year	Change	
	€m	€m	€m	%
Basic losses	3,714	3,616	98	2.7
Large and accumulation losses	6,178	5,728	450	7.9
Subtotal	9,893	9,344	549	5.9
Diversification effect	-3,134	-3,009	-125	4.2
Total	6,759	6,336	423	6.7

Atlantic Hurricane

Aggregate VaR (return period: 200 years)
€bn (before tax), retained

2016		4.4
2015		3.9

Earthquake Los Angeles

Aggregate VaR (return period: 200 years)
€bn (before tax), retained

2016		2.6
2015		2.2

Storm Europe

Aggregate VaR (return period: 200 years)
€bn (before tax), retained

2016		2.3
2015		2.3

C 1.1.3 Risk-mitigation techniques and monitoring procedures

We limit our risk exposure by setting limits and budgets not only for natural catastrophe risks but also for potential man-made losses. Our experts develop scenarios for possible natural events, taking into account the scientific factors, occurrence probabilities and potential loss amounts. On the basis of these models, the impact of various events on our portfolio is calculated and represented in mathematical terms in the form of a stochastic model.

Another important measure for controlling underwriting risks is the cession of a portion of our risks to other carriers via external reinsurance or retrocession. Most of our companies have intra-Group and/or external reinsurance and retrocession cover.

Particularly important in this context is an accumulation excess-of-loss cover, which provides protection against property damage losses from natural catastrophes. The dimensions of this cover are based on analyses of our accumulation budgets in those parts of the world exposed to natural catastrophes. The protection afforded by retrocession comes into play if we are hit by an extremely large loss.

In addition to traditional retrocession, we use alternative risk transfer. Under this process, underwriting risks are transferred to the capital markets via special purpose vehicles.

The purpose of these vehicles is to securitise underwriting risks, mostly in the area of natural catastrophes, and to issue catastrophe bonds (insurance-linked securities).

Munich Re mainly uses special purpose vehicles registered in Ireland to transfer risk to the capital markets, but there are currently also two other special purpose vehicles from Bermuda. All special purpose vehicles are properly licensed and registered by the respective supervisory authorities. Underwriting obligations are always fully funded. In order to minimise potential credit risk, investors' collateral is regularly invested in securities with the highest credit rating – for example, in US treasuries or World Bank bonds. The value of the collateral is checked regularly by a trustee and by means of regular reporting.

C 1.1.4 Risk sensitivity

The main stress scenarios in the property-casualty risk category arise from the accumulation risk scenarios shown in section C 1.1.2.

As well as analysing worst-case scenarios, we also look at the sensitivity of results produced by the risk model for large and accumulation losses to changes in the return periods or loss amounts for events, or a change in the business volumes written. We also consider the effect of changes of dependency assumptions on the results.

C 1.2 Life and health

C 1.2.1 Risks and their assessment

The underwriting risk is defined as the risk of insured benefits payable in life or health insurance business being higher than expected. Of particular relevance are the biometric risks and customer behaviour risks, such as lapses and lump-sum options. We differentiate between risks that have a short-term or long-term effect on our portfolio. In addition to the simple risk of random fluctuations resulting in higher claims expenditure in a particular year, the adverse developments with a short-term impact that we model notably include the risk of claims in excess of actuarial estimates that could arise on the occurrence of rare – but costly – events such as pandemics.

Life primary insurance products in particular, and a large part of our health primary insurance business, are long-term in nature, and the results they produce are spread over the entire duration of the policies. This can mean that countervailing developments in risk drivers with long-term effects reduce the value of the insurance portfolio (trend risks). The risk drivers mortality and disablement are dominated by the reinsurance field of business, particularly by exposure in North America. By contrast, the biometric longevity risk is mainly to be found in the products marketed by ERGO in Germany, together with typical risks from customer behaviour, such as the lapse risk. To a lesser extent, there are morbidity risks in health insurance, and risks connected with the increase of treatment costs in the ERGO and Munich Health fields of business.

Risk modelling attributes probabilities to each modified assumption, and produces a complete profit and loss distribution. We use primarily historical data extracted from the underlying portfolios to calibrate these probabilities, and additionally apply general mortality rates for the population to model the mortality trend risk. To enable us to define appropriate parameters for the modelling of the diverse areas in which we operate, portfolios with a homogeneous risk structure are grouped together. We then aggregate the individual profit and loss distributions, taking account of the dependency structure to obtain an overall distribution.

The solvency capital requirement for life and health increased by €454m as against the previous year to €5,199m. This was because of increased volume in reinsurance and changes in the capital markets – particularly the appreciation of the US dollar and Canadian dollar as against the euro. There were various compensatory effects in the ERGO field of business: falling euro interest rates have the effect here of increasing solvency capital requirements, while taking account of the new ERGO strategy in particular has the opposite effect.

C 1.2.2 Risk concentration

Our largest short-term accumulation risk in the life and health risk category is a severe pandemic that would expose Munich Re – and other companies in the insurance industry – to risks resulting from a considerable increase in mortality and morbidity and probable disruptions in the capital markets. We counter this risk by analysing our overall exposure in detail (scenario analysis) and defining appropriate measures to manage the risks.

C 1.2.3 Risk-mitigation techniques and monitoring procedures

In reinsurance, we control the assumption of biometric risks by means of a risk-commensurate underwriting policy. Interest-rate and other market risks are frequently ruled out by depositing the provisions with the cedant, with a guaranteed rate of interest from the deposit. In individual cases, these risks are also hedged by means of suitable capital market instruments.

In primary insurance, there is substantial risk minimisation through product design. In case of adverse developments, parts of the provision for premium refunds – which are recognised and reversed in profit or loss – are of great significance for risk-balancing. In health primary insurance, most long-term contracts include the possibility and/or obligation to adjust premiums. Practically, however, there are limits to the resilience of policyholders.

Limits are laid down for the pandemic scenarios, which affect the portfolio in the shorter term, and the longevity scenarios with their longer-term effect in conformity with the risk strategy.

C 1.2.4 Risk sensitivity

We continue to analyse the sensitivity of the internal model to the input parameters on a regular basis. This relates to the interest rate and the biometric risk drivers.

C 2 Market risk

C 2.1 Risks and their assessment

We define market risk as the risk of economic losses resulting from price changes in the capital markets. It includes equity risk, general interest-rate risk, specific interest-rate risk, property risk and currency risk. The general interest-rate risk relates to changes in the basic yield curves, whereas the specific interest-rate risk arises out of changes in credit risk spreads, for example on euro government bonds from various issuers, or on corporate bonds. We also include in market risk the risk of changes in inflation rates and implied volatilities (cost of options). Fluctuations in market prices affect not only our investments, but also our underwriting liabilities – especially in life insurance. Due to the long-term interest-rate guarantees given in some cases and the variety of options granted to policyholders in traditional life insurance, the amount of the liabilities can be highly dependent on conditions in the capital markets.

Market risks are modelled by means of Monte Carlo simulation of possible future market scenarios. We revalue our assets and liabilities for each simulated market scenario, thus showing the probability distribution for changes to basic own funds.

The solvency capital requirements for market risks can be seen in the table “Solvency capital requirements (SCR) – Market”.

Equity risk

The slightly higher equities position after derivatives compared with the previous year is reflected in a rise in the solvency capital requirement.

Interest-rate risks

The fall in the general and specific interest-rate risk in the reinsurance field of business results from reduced interest-rate sensitivity of own funds because of improved duration matching between investments and liabilities and the moderate reduction in credit exposure. The interest-rate risk rose considerably in the ERGO field of business. Most of this increase is due to the continued fall in interest rates in the eurozone. In addition, the improved accounting for negative interest-rate scenarios in the internal risk model contributed to an increase in the interest-rate risk.

In the reinsurance field of business, the fair value of interest-sensitive investments as at 31 December 2016 was €76.9bn (76.9bn). Measured in terms of modified duration, the interest-rate sensitivity of those investments was 5.9 (5.4), while that of the liabilities was 4.6 (4.8). The change in the freely available own funds in the event of a decrease in interest rates of one basis point would be approximately €2.6m (–2.9m). This means that the interest-rate sensitivity of the liabilities is largely matched by that of investments.

In the ERGO field of business, the fair value of interest-sensitive investments as at 31 December 2016 was €130.1bn (130.5bn). The modified duration was 9.3 (8.4) for interest-sensitive investments, and 10.6 (9.1) for

Solvency capital requirements (SCR) – Market

	Reinsurance		ERGO		Diversification	
	31.12.2016	Prev. year	31.12.2016	Prev. year	31.12.2016	Prev. year
	€m	€m	€m	€m	€m	€m
Equity risk	3,069	3,021	762	727	-22	-18
General interest-rate risk	1,719	1,894	3,904	2,245	-1,636	-1,072
Specific interest-rate risk	1,485	1,565	4,317	2,763	-804	-795
Property risk	945	929	580	583	-82	-49
Currency risk	3,854	3,340	136	169	-75	-26
Subtotal	11,072	10,749	9,699	6,487	-	-
Diversification effect	-5,167	-4,939	-3,237	-2,147	-	-
Total	5,905	5,810	6,462	4,340	-2,473	-1,415

	Group			
	31.12.2016	Prev. year	Change	
	€m	€m	€m	%
Equity risk	3,809	3,730	79	2.1
General interest-rate risk	3,987	3,068	919	30.0
Specific interest-rate risk	4,998	3,534	1,464	41.4
Property risk	1,443	1,463	-20	-1.4
Currency risk	3,915	3,483	432	12.4
Subtotal	18,152	15,278	2,874	18.8
Diversification effect	-8,257	-6,543	-1,714	26.2
Total	9,895	8,735	1,160	13.3

liabilities. This resulted in exposure to falling interest rates arising mainly out of the long-term options and guarantees in life insurance business. A decrease in interest rates of one basis point would have reduced the available own funds by approximately €22.2m (15.4m).

Property risk

As a consequence of improved diversification of the property portfolio, there has been a slight fall in property risk.

Currency risk

The increase in currency risk results from a moderate increase in existing foreign currency exposures, and was exacerbated by the depreciation of the euro.

C 2.2 Prudent person principle

A number of guidelines and internal processes ensure that we invest in accordance with the prudent person principle.

- We invest only if defined security, profitability and liquidity criteria are met. In addition, we ensure that we receive early warning if we are in danger of not meeting our strict liquidity requirements.
- We invest in products only if we understand the risks they involve. To ensure compliance with this principle, every single new investment product is subject to the new-product process for investments.
- We invest for the purpose of covering our underwriting liabilities, replicating significant characteristics of those liabilities on the assets side of our balance sheet and applying our own risk criterion to define a maximum deviation between underwriting and investment cash flows.
- We use derivative financial instruments to reduce our risks and manage our investment portfolio efficiently. The new-product process for investments is applied to any new type of financial derivative before it is used. All financial derivatives are recorded in our systems and taken into account in our risk measurement.
- We make very few investments in assets which are not admitted to trading on a regulated financial market. Furthermore, the investment mandates we give to our asset managers prescribe indices representing the permissible investment universe. Investments are made outside the prescribed indices only to a limited extent.
- We seek to avoid risk concentration where possible, using various risk criteria and early-warning indicators to avoid unwanted concentrations of risk on individual counterparties or sectors.

C 2.3 Risk concentration

In some instances, there are concentrations of market risk for loans and bonds. For details, please refer to credit risk sections C 3.2 and C 3.3 of this report.

C 2.4 Risk-mitigation techniques and monitoring procedures

We use appropriate limit and early-warning systems in our asset-liability management to manage market risks. Derivatives such as equity futures, options and interest-rate swaps – which are used mainly for hedging purposes – also play a role in our management of the risks. The impact of options is taken into account in the calculation of solvency capital requirements.

C 2.5 Risk sensitivity

Market risks are established using a scenario-based simulation calculation.

Independently of the scenarios in the risk models, we calculate the sensitivities of basic own funds with respect to possible future market scenarios. This involves analysing the mismatch position between assets and liabilities for the reinsurance field of business and property-casualty primary insurance (in particular technical provisions). In life and health primary insurance, the effect is shown directly in the fluctuation in basic own funds.

Solvency II ratio - Sensitivity

Ratio as at 31.12.2016	267%
Interest rate +50 Bp	284%
Interest rate -50 Bp	248%
Spread +100 Bp	226%
Equity markets +30%	282%
Equity markets -30%	251%
FX -20%	266%
Inflation +100 Bp	265%
Atlantic Hurricane	247%
Ultimate forward rate	263%
Volatility adjustment	279%

The solvency ratio of 267% shown does not include transitional measures. The Atlantic Hurricane scenario corresponds to a 1-in-200-year event. The ultimate forward rate is not adjusted for stresses on the risk-free interest rate. In the ultimate-forward-rate scenario, the forward rate is reduced by 50 bps given unchanged term for the beginning of the extrapolation period.

For all evaluated scenarios, Munich Re's capitalisation remains comfortably in excess of the lower limits set at Group level.

C 3 Credit risk

C 3.1 Risks and their assessment

We define credit risk as the financial loss that Munich Re could incur as a result of a change in the financial situation of a counterparty. In addition to credit risks arising out of investments in securities and payment transactions with clients, we actively assume credit risk through the writing of credit and financial reinsurance and in corresponding primary insurance business.

Munich Re determines credit risks using a portfolio model, which is calibrated over a longer period (at least one full credit cycle), and which takes account of both changes in fair value caused by rating migrations, and debtor default. The credit risk arising out of investments (including deposits retained on assumed reinsurance, government bonds and credit default swaps – CDSs) and reinsurers' shares in technical provisions is calculated by individual debtor. We use historical capital-market data to determine the associated migration and default probabilities. Correlation effects between debtors are derived from the sectors and countries in which they operate, and sector and country correlations are based on the interdependencies between the relevant stock indices. We use our own historical loss experience to calibrate the credit risk arising out of receivables. For life and health primary insurance business, we also take account of the share of the risk-mitigating effect on the credit risk resulting from policyholders' participation in profits.

We also capitalise the credit risk for highly rated government bonds.

Compared with the previous year, credit risk fell by €127m to €4,026m. This was due mainly to restructuring of the investment portfolio in the reinsurance field of business. There was a reduction in the exposure to government bonds from countries on the eurozone periphery, to bank bonds, and to credit default swaps. In turn, there was an increase in the exposure to long-term US government bonds.

C 3.2 Risk concentration

There is risk concentration in particular with respect to government bonds from inside and outside the European Union. In addition, a majority of investments are in covered bonds and similar types of bonds. These partly result in issuer risk, and partly in risks related to the assets belonging to the cover pool. We always ensure that ratings are appropriate, and we monitor creditworthiness on an ongoing basis.

C 3.3 Risk-mitigation techniques and monitoring procedures

We use a counterparty limit system valid throughout the Group to monitor and control our Group-wide credit risks for all balance-sheet positions. The limits for each counterparty (a group of companies or country) are based on its financial situation as determined by the results of our fundamental analyses, ratings and market data, and the risk appetite defined by the Board of Management. The utilisation of limits is calculated on the basis of credit-equivalent exposure (CEE). There are also volume limits for securities lending and repurchase transactions. Group-wide rules for collateral management – for example, for OTC derivatives and catastrophe bonds issued – enable the associated credit risk to be reduced. Exposure to issuers of interest-bearing securities and CDSs in the financial sector is limited by a financial sector limit at Group level.

We do not rely simply on the usual ratings to monitor country risks, but perform independent analyses of the political, economic and fiscal situations in the most important countries issuing paper in which we might potentially invest. Our experts evaluate and draw conclusions from movements in the market prices of bonds and derivatives issued by the countries concerned. On this basis – and taking account of the investment requirements of the fields of business in the respective currency areas and countries – limits and specific actions are approved by the Group Investment Committee. These are mandatory throughout the Group, both for investments and the insurance of political risks.

With the help of defined stress scenarios, our experts forecast potential consequences for the financial markets, the fair values of our investments, and the present values of our underwriting liabilities. At Group level, we counter any negative effects with a high degree of diversification in both our investments and our liability structure, and with our active Group-wide asset-liability management.

C 3.4 Risk sensitivity

The sensitivity in the credit risk model is regularly checked against the most important input parameters. This applies in particular to recovery rates in case of debtor insolvency, the probability of debtor migration between different rating classes, and the parameterisation of correlations among debtors. All validations demonstrated the adequacy of the modelling approaches selected.

C 4 Liquidity risk

C 4.1 Risks and their assessment

Our objective in managing liquidity risk is to ensure that we are in a position to meet our payment obligations at all times. We also optimise the availability of liquidity in the Group by means of internal funding. Through stringent requirements regarding the availability of liquidity, which in particular also comply with supervisory rules, we ensure that every unit is able to meet its payment obligations.

C 4.2 Risk concentration

We have not identified any risk concentration in liquidity risk. Please refer to section C 3.2 for details about risk concentration in investments, and to section E 1 for information on possible restrictions on availability and transferability of own funds within the Group.

C 4.3 Expected profit included in future premiums (EPIFP)

The total amount of expected profit included in future premiums, calculated pursuant to Article 260(2) of Delegated Regulation (EU) 2015/35, amounts to €12,105m for life insurance and €898m for property-casualty insurance.

C 4.4 Risk-mitigation techniques and monitoring procedures

Liquidity risk is managed within the framework of our holistic risk strategy, with the Board of Management defining limits on which minimum liquidity requirements for our operations are based. These risk limits are reviewed annually, and compliance with the minimum requirements is continuously monitored. In addition, the quantitative risk criteria we have introduced ensure that Munich Re will have sufficient liquid funds available even in the event of a loss equal to the solvency capital requirement.

Sub-criterion 1: Ability to meet known and expected liquidity requirements

In the most important units of Munich Re, there is adequate local liquidity planning, and in addition cash flow and fungible liquid investments are monitored centrally. However, only units with a forecast negative cash flow of at least €0.5bn over a two-year horizon are included in the internal Group risk-reporting system.

Sub-criterion 2: Very large underwriting losses (insurance claims shock)

In addition to the requirements under sub-criterion 1, Munich Reinsurance Company must ensure that for Munich Re as a whole sufficient fungible and liquid investments are available to meet claims payments following a very large underwriting loss event.

Sub-criteria 1 and 2 are deemed to be fulfilled if there is a minimum of 100% cover of both the liquidity requirements in the maturity band of 0-6 months and overall liquidity requirements.

Sub-criterion 3: Margin and collateral requirements

This criterion applies to all units that use derivatives for investments or insurance contracts with simulated market fluctuations (daily value at risk (VaR) of 99.9% for investments and monthly VaR of 98% for insurance contracts) that can cause additional margin or collateral requirements of at least €100m. In this case, an additional cushion of at least the same amount of fungible, liquid investments and/or acceptable collateral must be maintained within the company concerned.

Sub-criterion 4: Run-on-the-bank scenario

This criterion applies on the basis of a materiality threshold for solo undertakings with gross reserves of over €500m.

The run-on-the-bank scenario is a liquidity stress scenario for Munich Re. It assumes a significant reduction in own funds arising from the most severe of the following situations:

- a) Munich Re's rating (S&P) being downgraded to BBB, or
- b) financial loss in the amount of 1.75 times Munich Re's SCR.

The scenario assumes both market-value losses on the investments and higher underwriting liabilities due to extremely large loss events. The only coverage permitted for additional liquidity requirements are liquid investments where it can be assumed that they can be sold under the envisaged stress scenarios without additional losses from the assets having to be liquidated at fire-sale prices. Each solo undertaking must in its own right have sufficient liquidity available to be in a position to meet the planned liquidity requirements in the first three months following the onset of the financial crisis.

C 4.5 Risk sensitivity

There is no sensitivity for liquidity risk in excess of the monitoring procedure.

C 5 Operational risk

C 5.1 Risks and their assessment

We define operational risk as the risk of losses resulting from inadequate or failed internal processes, incidents caused by the actions of personnel or system malfunctions, or external events. This includes criminal acts committed by employees or third parties, insider trading, infringements of antitrust law, business interruptions, inaccurate processing of transactions, non-compliance with reporting obligations, and disagreements with business partners.

In recognition of the increasing spread of information technology in society and the economy, we are intensifying our analysis of cyber risks. We monitor developments closely and, with the help of scenarios based on our observations, derive approaches for both risk management and the development of new business opportunities.

We use scenario analyses to quantify operational risks. These analyses are produced or updated annually by experienced staff from the fields of business and relevant companies. The results are fed into the modelling of the solvency capital requirement for operational risks and are validated using various sources of information, such as the internal control system (ICS) and internal and external loss data.

The solvency capital requirement for operational risk increased by €352m as at 31 December 2016 because of an updated assessment of some scenarios, mainly in the area of cyber risk.

C 5.2 Risk concentration

Munich Re does not have any risk concentration with respect to operational risk.

C 5.3 Risk-mitigation techniques and monitoring procedures

Operational risks are managed via our ICS, complemented by the results of scenario analyses. In addition, we have a framework to define the rules for a standard Group-wide procedure for, in particular, identifying, assessing and managing security risks for people, information and property. Appropriate measures – including larger projects – are used to correct identified weaknesses or mistakes.

C 5.4 Risk sensitivity

The sensitivity of risk models as regards the most material risk parameters is checked regularly. This includes in particular the dependence of results on loss frequency and loss amounts, as well as the parameter assignment of correlations between individual scenarios. The analyses showed no anomalies in the reporting year.

C 6 Other material risks

C 6.1 Further material risks

We use suitable qualitative procedures to identify and analyse reputational risk and strategic risk in particular. Our risk management processes also assess and manage these risks where possible.

C 6.1.1 Reputational risk

Reputational risk is the risk of a loss resulting from damage to the Group's public image among clients, shareholders or other parties, for example. Actual reputational issues arising out of specific incidents are evaluated in the fields of business by reputational risk committees. The Group Compliance Committee deals with compliance risks and concrete reputational issues and risks at Group level, with a view to standardising the way they are handled throughout the Group. In addition, monitoring and limitation of reputational risk is an essential element of operational risk within the scope of our internal control system. Our whistleblowing portal also helps to reduce risk in this category.

C 6.1.2 Strategic risk

We define strategic risk as the risk of making incorrect business decisions, implementing decisions poorly, or being unable to adapt to changes in the operating environment. Existing and new potential for success in the Group and the fields of business in which it operates creates strategic risks, which we manage by carrying out risk analyses for significant strategic issues and regularly monitoring the implementation of measures deemed necessary. The Chief Risk Officer is also involved in operational business planning and the processes for company mergers and acquisitions.

C 6.2 Risk aggregation

The main risk categories are disclosed separately for reinsurance and for ERGO. In the Munich Health field of business, the life and health risk categories and operational risks are shown – but not market and credit risk. In line with the steering of our business, we show these risks in reinsurance. The table "Solvency capital requirements (SCR)" shows the solvency capital requirement for Munich Re and its risk categories as at 31 December 2016.

Solvency capital requirements (SCR)

	Reinsurance		ERGO		Munich Health	
	31.12.2016	Prev. year	31.12.2016	Prev. year	31.12.2016	Prev. year
	€m	€m	€m	€m	€m	€m
Property-casualty	6,688	6,247	381	362	-	-
Life and health	4,306	3,791	1,246	1,263	297	304
Market	5,905	5,810	6,462	4,340	-	-
Credit	2,582	2,672	1,598	1,593	-	-
Operational risk	881	821	799	399	74	64
Other ¹	397	-	197	-	-	-
Subtotal	20,758	19,340	10,685	7,956	371	367
Diversification effect	-7,709	-7,368	-2,444	-2,090	-32	-30
Tax	-2,180	-2,028	-987	-664	-51	-53
Total	10,869	9,944	7,254	5,202	287	285

	Diversification		Group		Change	
	31.12.2016	Prev. year	31.12.2016	Prev. year	€m	%
	€m	€m	€m	€m	€m	%
Property-casualty	-311	-273	6,759	6,336	423	6.7
Life and health	-650	-612	5,199	4,746	454	9.6
Market	-2,473	-1,415	9,895	8,735	1,160	13.3
Credit	-155	-112	4,026	4,153	-127	-3.1
Operational risk	-363	-244	1,391	1,039	352	33.9
Other ¹	-	-	594	71	523	736.2
Subtotal	-	-	27,863	25,079	2,784	11.1
Diversification effect	-	-	-9,992	-9,268	-724	7.8
Tax	-	-	-2,615	-2,336	-279	11.9
Total	-3,155	-1,956	15,256	13,475	1,781	13.2

1 Capital requirements for other financial sectors, e.g. institutions for occupational retirement provisions.

The solvency capital requirement was €1,781m higher than for the previous year, due mainly to developments in the capital markets, particularly the continuing fall in interest rates and depreciation of the euro as against all important currencies. Updates to the models also contributed to the increase, particularly the improved representation of negative interest rates.

The diversification effect between the risk categories property-casualty, life and health, market, credit and operational risks increased by €724m and stood at 36%. The solvency capital requirement, which is disclosed under "Other", increased because of a change in classification, as the solvency capital requirement for participations in this category must be shown without diversification and no longer under market risk. Further information on the changes within individual risk categories can be found in the previous sections.

C 6.3 Risk concentration at Group level

Details about risk concentration in the Group can be found within the relevant subsections of sections C 1 and C 3 above. Within the Group, there is risk concentration for some subsidiaries with respect to other Group companies, particularly reinsurance relationships to Munich Reinsurance Company.

C 7 Any other information

C 7.1 Global and regional economic and financial developments

Munich Re has substantial investments in the eurozone. We attach importance to maintaining a correspondingly broad diversification of investments to cover our technical provisions and liabilities in euros. However, low interest rates continue to pose major challenges in the eurozone, in particular for life insurance companies. The fluctuations in the capital markets give rise to considerable volatility in investments and liabilities. We counter these risks with various risk-management measures.

Developments in individual countries mean that there are still considerable political risks in the eurozone. As a reaction to the announcement that the United Kingdom will leave the EU, the pound has depreciated considerably against both the euro and the US dollar. Uncertainty surrounding Brexit negotiations could have further negative consequences (such as a further depreciation of the pound, recession in the UK, or deterioration of the current accounts of EU countries).

In addition to political imponderables in Europe, current developments in the USA, the situation in emerging markets, and international crises such as those in the Middle East and Ukraine are cranking up uncertainty levels. We constantly analyse the potential impact that developments of this sort may have on our risk profile.

There is a trend towards higher corporate taxation throughout Europe, with higher rates of corporation tax and a broadening of the tax base. The potential introduction of a financial transaction tax is also still under discussion in Europe. Demands for greater transparency about global corporate tax burdens and tax activities are also increasing. This could lead to changes being introduced across the world into national legislation, which may result in increased tax charges for globally operating companies. Munich Re cannot exclude that higher tax charges might result from these discussions.

C 7.2 Regulatory risks

For years, regulation has been growing in scale and complexity – requiring enhanced efforts and permanently tying up an increasing amount of resources at Munich Re. The economic and regulatory perspectives are not aligned in many areas, resulting in differing management requirements that may trigger contradictory corporate management signals.

C 7.3 Climate change

Climate change represents one of the greatest long-term risks of change for the insurance industry. Our Corporate Climate Centre analyses and measures this risk with a holistic strategic approach.

C 7.4 Legal risks

As part of the normal course of business, Munich Re companies are involved in court, regulatory and arbitration proceedings in various countries. The outcome of pending or impending proceedings is neither certain nor predictable. However, we believe that none of these proceedings will have a significant negative effect on the financial position of Munich Re, as none of the risks exceeds a low three-digit-million euro figure.

There is no other material information concerning the risk profile of Munich Re.



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D Valuation for solvency purposes

D 1 Assets

Valuation of assets

According to Article 75(1)(a) of Directive 2009/138/EC, all assets shall be valued at the amount for which they could be exchanged between knowledgeable and willing

parties in an arm's length transaction – that means at their fair values. In contrast, IFRS uses a mixed measurement model. That means that some assets are measured at fair value, and others are measured at amortised cost or at par value. If the valuation basis for Solvency II and IFRS is the same, we use the same fair values for both purposes. If the valuation basis is different, we explain the differences in greater detail for the respective assets. If the differences between fair values according to Solvency II and IFRS values are immaterial, assets are measured at their IFRS values.

Assets

€m	Solvency II value
Goodwill	
Deferred acquisition costs	
Intangible assets	0
Deferred tax assets	8,628
Pension benefit surplus	276
Property, plant & equipment held for own use	3,021
Investments (other than assets held for index-linked and unit-linked contracts)	221,064
Property (other than for own use)	5,346
Holdings in related undertakings, including participations	47,463
Equities	1,660
Equities – listed	1,070
Equities – unlisted	590
Bonds	157,651
Government bonds	80,275
Corporate bonds	65,121
Structured notes	8,864
Collateralised securities	3,392
Collective investments undertakings	3,851
Derivatives	1,639
Deposits other than cash equivalents	2,569
Other investments	885
Assets held for index-linked and unit-linked contracts	8,354
Loans and mortgages	8,215
Loans on policies	461
Loans and mortgages to individuals	2,707
Other loans and mortgages	5,047
Reinsurance recoverables from:	3,318
Non-life and health similar to non-life	2,030
Non-life excluding health	1,831
Health similar to non-life	199
Life and health similar to life, excluding health and index-linked and unit-linked	1,288
Health similar to life	303
Life excluding health and index-linked and unit-linked	985
Life index-linked and unit-linked	0
Deposits to cedants	7,161
Insurance and intermediaries receivables	3,848
Reinsurance receivables	286
Receivables (trade, not insurance)	2,293
Own shares (held directly)	746
Amounts due in respect of own fund items or initial fund called up but not yet paid in	0
Cash and cash equivalents	2,220
Any other assets, not elsewhere shown	497
Total assets	269,927

In addition to the differences in the valuation of individual items, the structure of the solvency balance sheet also differs from that of the IFRS balance sheet. Not all balance sheet items are therefore directly comparable. Even where the valuations are identical, the figures within items may not be the same due to differences in composition. The differences are particularly significant for assets shown under investments. There are also differences in the classification of receivables and other assets, which are described under the individual items. Where it was possible to reclassify assets as per IFRS in order to comply with the structure prescribed for the solvency balance sheet, we made this reclassification for comparison purposes.

Use of judgements and estimates in recognition and measurement

Where measurement has to be based on models because no market prices are available for the calculation of the fair values required, judgement must be exercised and estimates and assumptions used. These affect both the assets and the other liabilities shown in the solvency balance sheet.

Our internal processes are geared to determining amounts as accurately as possible, taking into account all the relevant information and providing verifiable documentation. The basis for determining amounts is management's best knowledge regarding the items concerned at the reporting date. Nevertheless, it is in the nature of these items that estimates may have to be adjusted in the course of time to take account of new knowledge.

In the sections below, we provide a separate description of the bases, methods and main assumptions used for the recognition, measurement and reporting of each material class of assets in the solvency balance sheet and in financial reporting under IFRS.

D 1.1 Goodwill

No goodwill is shown in the solvency balance sheet.

Under IFRS, goodwill resulting from the initial consolidation of subsidiaries is recognised, and tested for impairment at least annually in accordance with IAS 36. We additionally carry out ad-hoc impairment tests if there are indications of impairment. For the purpose of impairment testing, the goodwill is allocated to the cash-generating units or groups of cash-generating units expected to derive benefit from the synergies of the business combination.

D 1.2 Deferred acquisition costs

Deferred acquisition costs are not shown as an asset in the solvency balance sheet, but are taken into account in the valuation of the technical provisions.

Under IFRS, deferred acquisition costs comprise commissions and other variable costs directly connected with the acquisition or renewal of insurance contracts.

In life business and long-term health primary insurance, deferred acquisition costs are capitalised and amortised over the duration of the contracts.

In property-casualty business, short-term health primary insurance and health reinsurance, the deferred acquisition costs are amortised on a straight-line basis over the average term of the policies, from one to five years.

Deferred acquisition costs are regularly tested for impairment.

D 1.3 Intangible assets

Intangible assets are only shown in the solvency balance sheet if they are accounted for under IFRS and traded in an active market. The latter requirement is deemed to be met if an active market exists for similar assets. Since Munich Re's intangible assets currently do not meet this requirement, no amount is reported for this item in the solvency balance sheet.

Under IFRS, intangible assets mainly comprise acquired insurance portfolios, internally developed and other software, acquired sales networks, client bases, brand names and licences. Acquired insurance portfolios are recognised at their present value on acquisition (PVFP – present value of future profits). This is determined as the present value of expected profits from the portfolio acquired, without consideration of new business and tax effects. The acquired insurance portfolios are amortised in accordance with the realisation of the profits from the insurance portfolios underlying the PVFP calculation. They are regularly tested for impairment.

The remaining intangible assets are recognised at cost and amortised on a straight-line basis over their planned useful lives. In addition, we recognise or reverse impairment losses if required.

D 1.4 Deferred tax assets

Under Solvency II, deferred taxes are determined pursuant to Article 15 in conjunction with Article 9 of Delegated Regulation (EU) 2015/35 (Delegated Regulation).

In accordance with Article 9(1) and (2) of the Delegated Regulation, assets and liabilities shall be recognised and valued in accordance with IFRS requirements, provided that these are consistent with Article 75 of Directive 2009/138/EC. Therefore, under Solvency II, deferred tax assets are recognised and valued in accordance with IAS 12. In addition, the relevant interpretative decisions issued by the Federal Financial Supervisory Authority (BaFin) are taken into account.

Deferred tax assets are calculated on the basis of the difference between the values ascribed to assets recognised and valued in accordance with Article 75 of Directive 2009/138/EC, and the values ascribed to assets recognised and valued for tax purposes. Deferred taxes are determined on the basis of the tax rates of the countries concerned. Changes in tax rates and tax legislation that have already been adopted at the balance sheet date are taken into account.

Deferred tax assets are recognised in cases where asset items have to be valued lower, or liability items higher, in the solvency balance sheet than in the tax accounts of the Group company concerned, and these differences will be eliminated at a later date with a corresponding effect on taxable income (temporary differences). Also included are deferred tax assets deriving from tax loss carry-forwards.

Deferred tax assets are recognised if there are sufficient taxable temporary differences which are expected to reverse in the same period as the deductible temporary differences. For any additional deductible temporary differences, deferred tax assets are recognised only to the extent that it is probable that future profits are available in the same period in which the deductible temporary differences are expected to reverse. A five-year result plan is used as a basis for this purpose.

As at 31 December 2016, deferred tax assets in the Munich Re solvency balance sheet amounted to €8,628m. Deferred tax liabilities came to €14,927m. Deferred tax liabilities netted against deferred tax assets resulted in a net surplus of deferred tax liabilities of €6,299m.

For technical provisions, there was a net surplus of deferred tax assets of €3,037m, taking into account a reduction of deferred tax assets of €3,544m resulting from the initial application of transitional measures for technical provisions. Differences in recognition and measurement between the solvency balance sheet and the values in the tax accounts resulted in a net surplus of deferred tax assets of €585m derived from provisions for post-employment benefits. Intangible assets are not recognised in the solvency balance sheet, while expenses incurred for internally developed IT products and acquired intangible assets are recognised as assets in the tax accounts. As a result, deferred tax assets derived from this item amounted to €246m. Furthermore, deferred tax assets of €871m arose from loss carry-forwards and tax credits. Net deferred tax assets for other balance-sheet items amounted to €631m.

Investments tend to be valued higher (at fair value) in the solvency balance sheet than in the tax accounts where they are measured at amortised cost, resulting in a significant net surplus of deferred tax liabilities of €8,756m. Deferred tax liabilities of €2,913m arose from the claims equalisation provision, which is shown in the tax accounts but not in the solvency balance sheet.

As at 31 December 2016, deductible temporary differences not recognised as deferred tax assets in the solvency balance sheet amounted to €395m.

Loss carry-forwards and tax credits totalled €6,042m as at 31 December 2016, resulting in deferred tax assets of €871m.

Total tax loss carry-forwards and tax credits break down as shown on the following page.

Tax loss carry-forwards and tax credits

	31.12.2016		
€m	For which deferred tax assets are recognised	For which deferred tax assets are not recognised	Total
Tax loss carry-forwards	3,982	1,940	5,922
Corporation tax loss carry-forwards	1,376	1,815	3,191
Expiring in up to three years	85	0	85
Expiring in over three years and up to ten years	155	41	196
Expiring in over ten years	147	21	168
Not expiring	989	1,753	2,742
Trade tax loss carry-forwards	2,606	125	2,731
Not expiring	2,606	125	2,731
Loss carry-forwards from capital losses	0	0	0
Expiring in up to three years	0	0	0
Expiring in over three years and up to ten years	0	0	0
Expiring in over ten years	0	0	0
Not expiring	0	0	0
Tax credits	120	0	120
Expiring in up to three years	0	0	0
Expiring in over three years and up to ten years	40	0	40
Expiring in over ten years	0	0	0
Not expiring	80	0	80

D 1.5 Pension benefit surplus

Details about how we recognise the pension benefit surplus are set out in connection with pension benefit obligations in section D 3.3.

D 1.6 Property, plant & equipment held for own use

Owner-occupied property

In the solvency balance sheet, owner-occupied property is recognised under "Property, plant & equipment held for own use". In the IFRS accounts, it is shown under other assets.

In the solvency balance sheet, we measure land and buildings at fair value. Valuations for the directly held portfolio are performed by valuers within the Group, and those for the indirectly held portfolio are carried out by external valuers. Determining the sustainability of cash inflows and outflows, taking into account the market conditions at the property location, is material for valuation. The fair value is determined individually per item by discounting the future cash flow to the valuation date.

Under IFRS, land and buildings are measured at amortised cost. Buildings are depreciated on a straight-line basis. If the recoverable amount of land and buildings falls below their carrying amount, the carrying amount is written down to the recoverable amount.

Plant and equipment held for own use

For reasons of simplification, plant and equipment is measured at its IFRS value in the solvency balance sheet, i.e. at amortised cost. Items are depreciated over of their useful lives to reflect the decline in utility, unless they are written down to a lower value for impairment.

In the solvency balance sheet, inventories are measured using the relevant IFRS carrying amounts, i.e. the estimated realisable value. If, in the normal course of business, the value falls below the value of the acquisition costs, inventories are to be written down to this value.

Our **lease agreements** are mainly operating leases according to IAS 17, which are recognised neither in the solvency balance sheet nor under IFRS.

Munich Re as lessee: At the balance sheet date, future minimum lease payments under non-cancellable operating leases totalled €495m. The agreements mainly concern offices and business premises of the Group, IT infrastructure, and land. They include extension options as well as restrictions regarding the agreement of subleases.

Munich Re as lessor: Operating leases mainly involve leased property. At the balance sheet date, future minimum lease payments under non-cancellable leases totalled €1,281m.

Finance lease agreements – which are disclosed in our IFRS consolidated financial statements – are not material for our solvency position.

D 1.7 Investments (other than assets held for index-linked and unit-linked contracts)

D 1.7.1 Property (other than for own use)

For both solvency balance sheet and IFRS purposes, land and buildings not held for own use are measured in the same way as owner-occupied property, i.e. fair values are used for the solvency balance sheet, and amortised cost for IFRS.

D 1.7.2 Holdings in related undertakings, including participations

This item comprises the following holdings in related undertakings:

– Subsidiary undertakings not fully consolidated

These include collective investment undertakings, financial or credit institutions, investment firms, institutions for occupational retirement provision, alternative investment fund managers, UCITS management companies, non-regulated undertakings carrying out financial activities and ancillary services undertakings classified as immaterial from a Group perspective;

– Jointly controlled entities not proportionally consolidated

These include collective investment undertakings, financial or credit institutions, investment firms, institutions for occupational retirement provision, alternative investment fund managers, UCITS management companies, non-regulated undertakings carrying out financial activities, and ancillary services undertakings classified as immaterial from a Group perspective;

– Any Munich Re participations.

Not included in this item are related undertakings taken into account in the consolidated data for the calculation of Group solvency in accordance with Article 335(1)(a-c) of

the Delegated Regulation. These include interests in special purpose vehicles as well as subsidiary undertakings and jointly controlled entities that are insurance or reinsurance undertakings (whether or not the latter are from the EEA), insurance holding companies, mixed financial holding companies or material ancillary services undertakings, as these interests must be fully or proportionally consolidated for the calculation of Group solvency. For holdings in jointly controlled entities not included through proportional consolidation, Munich Re uses the valuation hierarchy explained below.

Holdings in related undertakings that are financial or credit institutions, investment firms, institutions for occupational retirement provision, alternative investment fund managers, UCITS management companies or non-regulated undertakings carrying out financial activities are valued on the basis of the proportional share of the undertaking's own funds calculated according to the relevant sectoral rules.

For any other holdings in related undertakings included in this item, Munich Re applies the following valuation hierarchy for determining fair value as at the balance sheet date:

- The default valuation approach is the use of quoted market prices in active markets for the same assets.
- If the use of quoted market prices in active markets for the same assets is not possible because the relevant related undertaking is not listed on a stock exchange, Munich Re measures its holdings
 - based on the share of the excess of assets over liabilities according to the Solvency II valuation rules, if the relevant related undertaking is a collective investment undertaking or an insurance or reinsurance undertaking from the EEA;
 - based on the equity method pursuant to IAS 28, Investments in Associates and Joint Ventures, if the relevant related undertaking is not a collective investment undertaking and not an insurance or reinsurance undertaking from the EEA, but is valued based on the equity method in Munich Re's consolidated financial statements pursuant to IFRS as it is considered material. Contrary to IAS 28, goodwill and other intangible assets are deducted from the value determined under IFRS using the equity method;
 - based on an alternative valuation method if the relevant related undertaking is not a collective investment undertaking and not an insurance or reinsurance undertaking, and in addition it is not valued based on the equity method in Munich Re's consolidated financial statements pursuant to IFRS as it is considered immaterial.

Taking into consideration the principles of materiality, Munich Re uses

- the equity method for related undertakings not listed on a stock exchange that are not subject to supervision at individual entity level, and where the share of the excess of assets over liabilities in accordance with Solvency II valuation rules would therefore have to be calculated for Group solvency purposes only;
- an alternative valuation method for related undertakings not listed on a stock exchange that are considered immaterial under IFRS and thus are not valued using the equity method in Munich Re's consolidated financial statements.

In contrast to IFRS, where any material subsidiary is fully consolidated (irrespective of the business activity or type of undertaking), for the calculation of the Group solvency balance sheet subsidiary undertakings are subject to full consolidation only if they are insurance or reinsurance undertakings (whether or not the latter are from the EEA), insurance holding companies, mixed financial holding companies or material ancillary services undertakings.

Under IFRS, interests in material associates are always accounted for using the equity method, while interests in immaterial subsidiaries and associates are measured at quoted market prices if available. If quoted market prices are not available, the alternative valuation method outlined above is applied, i.e. the undertaking's net asset value or local equity value is normally used.

The complete list of holdings in related undertakings of Munich Re can be found in QRT S.32.01.04 (Undertakings in the scope of the group).

D 1.7.3 Other financial assets

In the solvency balance sheet, we value all other financial assets at fair value. Where a price is quoted in active markets (i.e. at market value), that price should be used. If no market price is available, valuation models are used in which observable market inputs are applied as far as possible. The same valuation principles are followed as under IFRS.

Determining fair values

Since market values are not available for all financial instruments, IFRS has a valuation hierarchy with three levels. Though Solvency II does not explicitly name the levels, it does provide for equivalent differentiation in the assessment of the fair values used.

The allocation reflects which of the fair values derive from transactions in the market and where valuation is based on models because market transactions are lacking.

In the case of Level 1, valuation is based on unadjusted quoted prices in active markets for identical financial assets which Munich Re can refer to at the balance sheet date.

A market is deemed active if transactions take place with sufficient frequency and in sufficient quantity for price information to be available on an ongoing basis. Since a quoted price in an active market is the most reliable indicator of fair value, this should always be used if available. The financial instruments we have allocated to this level mainly comprise equities and equity funds, exchange-traded derivatives, and exchange-traded subordinated bond liabilities.

Assets allocated to Level 2 are valued using models based on observable market data. For this, we use inputs directly or indirectly observable in the market, other than quoted prices. Quoted prices for similar assets or liabilities in active markets and quoted prices for identical or similar assets in inactive markets are also considered Level 2 valuations. If the financial instrument concerned has a fixed contract period, the inputs used for valuation must be observable for the whole of this period. The financial instruments we have allocated to this level mainly comprise bearer bonds and bond funds, borrowers' note loans, covered bonds, subordinated securities, derivatives not traded on the stock market, and physical gas.

For assets allocated to Level 3, we use valuation techniques not based on inputs observable in the market. This is only permissible insofar as no observable market data is available. The inputs used reflect Munich Re's assumptions regarding the factors which market players would consider in their pricing. We use the best available information for this, including internal company data. The financial instruments allocated to this level of the fair value hierarchy largely comprise land and buildings, real estate funds, funds that mainly invest in theoretically valued instruments, investments in private equity, certain credit structures, and holdings in related undertakings and associates measured at fair value. Insurance-linked derivatives are also allocated to Level 3.

In the case of loans, bank borrowing, as well as bond and note liabilities not traded on an active market, we have decided on a case-by-case basis to which level of the fair value hierarchy to allocate the respective fair values.

At each half-yearly reporting date, we assess whether the allocation of our assets and liabilities to the levels of the fair value hierarchy is still appropriate. If changes in the valuation basis have occurred – for instance, if a market is no longer active or the valuation was performed using inputs requiring another allocation – we make the necessary adjustments.

The following table provides an overview of the models used to measure the fair values of our investments when market prices are not available.

Valuation techniques for financial instruments

Bonds	Pricing method	Parameters	Pricing model
Interest-rate risks			
Loans against borrower's note/ registered bonds	Theoretical price	Sector-, rating- or issuer-specific yield curve	Present-value method
Cat bond (host)	Theoretical price	Interest-rate curve	Present-value method
Mortgage loans	Theoretical price	Sector-specific yield curve	Present-value method
Derivatives			
Equity and index risks			
OTC stock options	Theoretical price	Listing of underlying shares Effective volatilities Money-market interest rate Dividend yield	Black-Scholes (European) Cox, Ross and Rubinstein (American) Monte Carlo simulation
Equity forwards	Theoretical price	Listing of underlying shares Money-market interest rate Dividend yield	Present-value method
Interest-rate risks			
Interest-rate swaps	Theoretical price	OIS/swap curve	Present-value method
Swaptions/interest-rate guarantee	Theoretical price	At-the-money volatility index and skew OIS/skew swap curve	Bachelier/ Normal Black
Interest-rate currency swaps	Theoretical price	Swap curve Currency spot rates Money-market interest-rate curve	Present-value method
Inflation swaps	Theoretical price	Zero-coupon inflation swap rates OIS curve	Present-value method
Bond forwards (forward transactions)	Theoretical price	Listing of underlying Swap curve	Present-value method
Currency risks			
Currency options	Theoretical price	Volatility skew Currency spot rates Money-market interest-rate curve	Garman-Kohlhagen (European)
Currency forwards	Theoretical price	Currency spot rates Money-market interest-rate curve, CCY spreads	Present-value method
Other transactions			
Insurance derivatives (excluding variable annuities)	Theoretical price	Fair values of cat bonds Historical event data Interest-rate curve	Present-value method
Insurance derivatives (variable annuities)	Theoretical price	Biometric and lapse rates Volatilities Interest-rate curve Currency spot rates	Present-value method
Catastrophe swaps	Theoretical price	Fair values of catastrophe bonds Interest-rate curve	Present-value method
Credit default swaps	Theoretical price	Credit spreads Recovery rates Interest-rate curve	Present-value method ISDA CDS Standard Model
Total return swaps on commodities	Theoretical price	Listing of underlying index	Index ratio calculation
Commodity options	Theoretical price	Listing of underlying Effective volatilities Money-market interest rate	Black-Scholes (European) Cox, Ross and Rubinstein (American)

Bonds with embedded derivatives	Pricing method	Parameters	Pricing model
Callable bonds	Theoretical price	Money-market/swap interest-rate curve Issuer-specific spreads Volatility matrix	Hull-White model
CMS floaters	Theoretical price	Money-market/swap interest-rate curve Issuer-specific spreads Volatility matrix	Hull-White model
Zero-to-coupon switchable bonds	Theoretical price	Money-market/swap interest-rate curve Issuer-specific spreads Volatility matrix	Hull-White model
CMS floaters with variable cap	Theoretical price	OIS/swap interest-rate curve Issuer-specific spreads Volatility matrix and skews	Replication model (Hagan)
Inverse CMS floaters	Theoretical price	OIS/swap interest-rate curve Issuer-specific spreads Volatility matrix and skews	Replication model (Hagan)
CMS steepeners	Theoretical price	OIS/swap interest-rate curve Issuer-specific spreads Volatility matrix and skews Correlation matrix	Replication model (Hagan)
Convergence bonds	Theoretical price	Money-market/swap interest-rate curves Issuer-specific spreads Volatility matrix Correlation matrix	LIBOR market model
Multi-tranches	Theoretical price	At-the-money volatility index and skew Swap curve Money-market interest-rate curve Sector-, rating- or issuer-specific yield curve	Bachelier/ Normal Black, Present-value method
FIS loans against borrower's note	Theoretical price	At-the-money volatility index and skew Swap curve Money-market interest-rate curve Sector-, rating- or issuer-specific yield curve	Bachelier/ Normal Black, Present-value method
Swaption notes	Theoretical price	At-the-money volatility index and skew Swap curve Money-market interest-rate curve Sector-, rating- or issuer-specific yield rate curve	Bachelier/ Normal Black, Present-value method
Funds	Pricing method	Parameters	Pricing model
Real estate funds	-	-	Net asset value
Alternative investment funds (e.g. private equity, infrastructure, forestry)	-	-	Net asset value
Other	Pricing method	Parameters	Pricing model
Real estate	Theoretical market price	Interest-rate curve Market rents	Present-value method or valuation
Alternative direct investments (e.g. infrastructure, forestry)	Theoretical market price	Interest-rate curve (among others) Electricity price forecast and inflation forecast	Present-value method or valuation
Bank borrowing	Theoretical market price	Interest-rate curve	Present-value method

Insurance-linked derivatives (excluding variable annuities) are allocated to Level 3 of the fair value hierarchy. The valuation of the derivative components of catastrophe bonds is based on the values supplied by brokers for the underlying bonds, which is why it is not possible to quantify the inputs used that were not based on observable market data. If no observable inputs are available for customised insurance-linked derivatives, the present-value method on the basis of current interest-rate curves and historical event data is used. Due to the low volume involved, the effects of alternative inputs and assumptions are immaterial.

The inputs requiring consideration in the valuation of variable annuities are derived either directly from market data, in particular volatilities, interest-rate curves and currency spot rates, or from actuarial data, especially biometric and lapse rates. The lapse rates used are modelled dynamically and range between 0.5% and 50%, depending on the specific insurance product and current situation of the capital markets. A 10% increase or decrease in the lapse rates would lead to a change of $-/+1\%$ in the fair value of the portfolio. The assumptions with regard to mortality are based on published mortality tables, which are adjusted with a view to the target markets and the actuaries' expectations. The impact of these and other non-observable assumptions is not material. The dependency between different capital market parameters is modelled by correlation matrices. We allocate these products to Level 3 of the fair value hierarchy.

The other investments allocated to Level 3 are mainly external fund units (in particular, private equity, real estate and funds that invest in a variety of assets that are subject to theoretical valuation) as well as relatively illiquid credit structures (especially commercial mortgage-backed securities and collateralised loan obligations). In the case of the former, market data are not available on a regular basis; rather, net asset values (NAVs) are provided by the asset managers. With regard to the latter, the quality of the market quotes available from market data providers is insufficient, so we resort to broker valuations. With these investments, we thus do not perform our own valuations using inputs not based on observable market data. We regularly subject the valuations supplied to plausibility tests on the basis of comparable investments.

Measurement categories according to IFRS

Unlike in the solvency balance sheet, pursuant to IAS 39 we have four categories of financial instruments with differing measurement requirements. The classification depends on the type and purpose of the financial assets and is determined when the instrument is acquired or issued.

Under IFRS, all financial instruments are initially measured at fair value. If an instrument is not subsequently measured at fair value through profit or loss, transaction costs relating directly to acquisition or issuance are to be taken into account.

The categories for subsequent measurement of financial assets under IAS 39 are listed below:

Loans are non-derivative financial assets with fixed or determinable payments that are not quoted in an active market, including loans on policies. They are measured at amortised cost in accordance with the effective interest method. Write-downs for impairments are made in cases where the repayment of a loan can no longer be expected.

The loans consist of mortgage loans (€5,606m), loans on policies (€297m) and other loans (€47,788m). The other loans mainly comprise covered bonds and government bonds.

In the solvency balance sheet, loans and mortgages including loans on policies are not shown as part of the investments, but are recognised at fair value separately from the investments (see D 1.9 Loans and mortgages).

Fixed-interest or non-fixed-interest securities available for sale that are not designated as at fair value through profit or loss or recognised under loans are accounted for at fair value. Unrealised gains or losses are calculated taking into account interest accrued and, after deduction of deferred taxes and the amounts apportionable to policyholders by the life and health insurers on realisation (provision for deferred premium refunds), are recognised directly in equity under "other reserves".

Securities at fair value through profit or loss comprise securities held for trading and securities designated as at fair value through profit or loss. Securities held for trading mainly include all derivative financial instruments with positive fair values. Securities designated as at fair value through profit or loss comprise structured securities. Securities at fair value through profit or loss are accounted for at fair value at the balance sheet date.

In addition to the breakdown into different measurement categories, **insurance-related investments** are accounted for separately in our IFRS consolidated financial statements. These include investments for unit-linked life insurance contracts (see D 1.8 Assets held for index-linked and unit-linked contracts) and other insurance-related investments.

The other insurance-related investments are investments that are not utilised for asset-liability management. These include insurance-linked derivatives, derivatives to hedge variable annuities, weather and commodity derivatives, and physical gas. Insurance risks are defined as risks which – in a modified form – can also be covered by an insurance contract within the meaning of IFRS 4. Other insurance-related investments are accounted for at fair value, and we recognise changes in value in profit or loss. For physical gas, the fair value is reduced by estimated costs to sell.

Other investments, which are also accounted for separately in the IFRS financial statements, comprise deposits with banks totalling €2,925m, tangible assets in renewable energies amounting to €482m, and physical gold of €361m. Deposits with banks are measured at amortised cost in accordance with the effective interest method. Investments in renewable energies are generally accounted for at amortised cost.

Where financial assets are also to be valued at fair value under IFRS, the valuation is exactly the same as for the solvency balance sheet.

The classification of investments in the solvency balance sheet is fundamentally different from that under IFRS. For supervisory purposes, investments are classified into different types on the basis of the Complementary Identification Codes (CIC). In financial reporting under IFRS, investments are broken down into the measurement categories described above. Therefore, the differences in valuation (compared with IFRS values) are not directly evident from the solvency balance sheet structure. The table below compares the carrying amounts for the IFRS categories with the fair values.

Valuation of financial assets under IFRS

€m	Carrying amount	Fair value
Loans	53,691	67,282
Securities available for sale	147,843	147,843
Securities at fair value through profit or loss	2,672	2,672
Other investments ¹	3,814	3,856

¹ Other investments comprise deposits with banks, tangible assets in renewable energies and physical gold.

Impairment

For IFRS, at each balance sheet date we assess whether there is any substantial objective evidence of impairment in a financial asset or group of financial assets. We determine acquisition cost on the basis of the average purchase price. In the case of an impairment, a write-down is made to the fair value at the balance sheet date and recognised as an expense in the consolidated income statement.

As all assets in the solvency balance sheet are shown at fair value, no impairment rules are required.

For the same reason, no rules exist regarding the unbundling of embedded derivatives or hedge accounting.

D 1.8 Assets held for index-linked and unit-linked contracts

These are investments for policyholders under unit-linked life insurances. Both in the solvency balance sheet and under IFRS (investments for unit-linked life insurance contracts), we account for them at fair value. In our consolidated financial statements (IFRS), we show these investments under the item insurance-related investments.

D 1.9 Loans and mortgages

In the solvency balance sheet, loans and mortgages – including loans on policies – are shown as a separate line item outside the investments. They are measured at fair value.

Under IFRS, we recognise all loans as part of the investments, measuring them at amortised cost. We perform regular impairment tests to check whether their value has fallen and a write-down to fair value is required. If, in a subsequent period, the reasons for the impairment cease to apply, the impairment loss is reversed in profit or loss. The resultant carrying amount may not exceed the original amortised cost.

D 1.10 Reinsurance recoverables

Reinsurance recoverables are dealt with in section D 2 Technical provisions.

D 1.11 Deposits to cedants

Deposits to cedants serve directly as collateral for technical provisions covering business assumed and may not be used by cedants independently. The credit risk is therefore limited. The amount of and changes in these deposits in the financial year generally derive from the values for the changes in the related technical provisions for the reinsured business. Deposits to cedants thus do not have a fixed maturity date, their release generally being dependent on the run-off of the corresponding provisions.

In the solvency balance sheet, deposits to cedants are measured at fair value.

Under IFRS, deposits to cedants (“deposits retained on assumed reinsurance”) are measured at nominal value. If receivables become doubtful, they are written down for impairment.

D 1.12 Insurance and intermediaries receivables

In the solvency balance sheet, insurance and intermediaries receivables are measured at fair value, taking counterparty default risk into account.

Under IFRS, we recognise insurance and intermediaries receivables at face value. We perform regular impairment tests to check whether their value has fallen. The amount of the probable loss is measured as the difference between the amortised cost and the present value of estimated future cash flows. If, in a subsequent period, the reasons for the impairment cease to apply, the impairment loss is reversed in profit or loss. The resultant carrying amount may not exceed the original amortised cost.

D 1.13 Reinsurance receivables

In the solvency balance sheet, reinsurance receivables are measured at fair value.

Under IFRS, we recognise reinsurance receivables at face value. We perform regular impairment tests to check whether their value has fallen. The amount of the probable loss is measured as the difference between the amortised cost and the present value of estimated future cash flows. If, in a subsequent period, the reasons for the impairment cease to apply, the impairment loss is reversed in profit or loss. The resultant carrying amount may not exceed the original amortised cost.

In the solvency balance sheet (unlike in IFRS), receivables from brokerage and from reinsurance business assumed are not recognised under reinsurance receivables, but under insurance and intermediaries receivables.

D 1.14 Receivables (trade, not insurance)

In the solvency balance sheet, the receivables (trade, not insurance) include in particular receivables from dividends, receivables from profit pooling or transfer agreements, receivables from taxes, and other receivables. These receivables must be measured at fair value. However, for reasons of simplification, receivables from dividends and receivables from profit pooling or transfer agreements are recognised at their IFRS carrying amount, i.e. at amortised cost. Doubtful receivables are written down to the estimated recoverable amount.

Receivables from taxes and other receivables are discounted, taking into account the actual risk-free interest rates and relevant interest-rate spreads. The individual business partner's credit risk is also taken into consideration.

In the solvency balance sheet, all insurance contracts are recognised under technical provisions irrespective of the level of insurance risk involved in the individual contracts. Therefore, receivables resulting from reinsurance contracts without significant risk transfer, which do not fall within the scope of IFRS 4, are – notwithstanding IFRS – not reported as receivables, but as part of the technical provisions.

Under IFRS, we recognise receivables at amortised cost. Doubtful receivables are written down to the estimated recoverable amount, and an impairment loss is recognised in profit or loss.

Both reinsurance receivables and insurance and intermediaries receivables are included in other receivables under IFRS, but shown as separate items in the solvency balance sheet.

D 1.15 Own shares (held directly)

This item includes the own shares held by Munich Re. Under Solvency II, the own shares are measured at fair value. When determining the own funds, this amount has to be deducted from the basic own funds.

Under IFRS, own shares are not shown separately as an asset in the balance sheet, but have to be deducted from shareholders' equity.

D 1.16 Amounts due in respect of own fund items or initial fund called up but not yet paid in

This item is currently not relevant for Munich Re.

D 1.17 Cash and cash equivalents

Under Solvency II, the face value of cash is considered to be the fair value. Transferable deposits (including cheques) are valued at amortised cost (usually this is the par value). Credit risk is taken into account by write-downs of doubtful deposits and doubtful cheques to the estimated recoverable amount.

Under IFRS, cash held is accounted for at face value.

D 1.18 Any other assets, not elsewhere shown

"Any other assets, not elsewhere shown" covers all assets that cannot be allocated to any other class of assets. In contrast to our IFRS financial reporting, in the solvency balance sheet hedging derivatives (€68m) are reclassified as derivatives.

As a basic principle, in the solvency balance sheet all other assets are to be measured at fair value. Similar to IFRS, prepayments are calculated pro rata temporis and cover the period between the reporting date and the date the corresponding benefit is earned or becomes due. In contrast to IFRS, prepayments are discounted under Solvency II taking into account the actual relevant risk-free interest rate and relevant interest-rate spreads, unless the effect from discounting is immaterial.

D 2 Technical provisions

D 2.1 Description of the methodologies used for the valuation for solvency purposes

D 2.1.1 Overall requirements for technical provisions

Insurance and reinsurance undertakings have to establish technical provisions with respect to all of their insurance and reinsurance obligations towards policyholders, cedants and beneficiaries. The value of the technical provisions corresponds to the current amount the undertakings would have to pay if they were to transfer their insurance and reinsurance liabilities immediately to another insurance or reinsurance undertaking. The calculation of technical provisions must make use of and be consistent with information provided by the financial markets and generally available data on underwriting risks (market consistency). Technical provisions must be calculated in a prudent, reliable and objective manner. Following the principles set out above, the calculation of technical provisions is carried out as described below.

D 2.1.2 Calculation of technical provisions

Technical provisions are calculated using established principles for actuarial valuation. Manuals of methods for Solvency II – and for the calculation of technical provisions in particular – ensure consistent valuation approaches throughout Munich Re. In this context, we set out requirements regarding segmentation of business, data used, economic and operational (e.g. biometric) assumptions, and methods and models.

In general, the value of technical provisions is equal to the sum of a best estimate and a risk margin as explained below.

The best estimate corresponds to the probability-weighted average of future cash-flows, taking account of future developments and uncertainties. It also takes discount effects into account and uses the relevant risk-free interest rate term structure. As at the reporting date, we do not make use of any transitional measures regarding the relevant risk-free interest rate term structure, nor do we use volatility or matching adjustments. Two life primary insurance companies apply a transitional deduction on technical provisions approved by BaFin.

Technical provisions

€m	Solvency II value
Technical provisions – non-life	55,588
Technical provisions (TP) – non-life (excluding health)	50,916
TP calculated as a whole	0
Best estimate	49,470
Risk margin	1,446
Technical provisions – health (similar to non-life)	4,672
TP calculated as a whole	0
Best estimate	4,546
Risk margin	126
Technical provisions – life (excluding index-linked and unit-linked)	124,738
Technical provisions – health (similar to life)	55,712
TP calculated as a whole	0
Best estimate	52,248
Risk margin	3,465
Technical provisions – life (excluding health and index-linked and unit-linked)	69,025
TP calculated as a whole	0
Best estimate	64,199
Risk margin	4,826
Technical provisions – index-linked and unit-linked	9,209
TP calculated as a whole	529
Best estimate	8,511
Risk margin	169
Technical provisions total	189,535

The calculation of the best estimate is based upon up-to-date and credible information and realistic assumptions and performed using adequate, applicable and relevant actuarial and statistical methods. To ensure consistency where possible, most of the economic assumptions are derived at Group level. Non-economic assumptions are mostly based on the characteristics of the insurance portfolio. Expenses are assessed on a going-concern basis. The cash-flow projection used in the calculation of the best estimate takes account of all the cash inflows and outflows required to settle the insurance and reinsurance obligations over their lifetime. The best estimate is calculated gross, without deduction of the amounts recoverable from reinsurance contracts and special purpose vehicles (e.g. retrocession to the capital market via a cat bond). Those amounts are calculated and reported separately.

For property-casualty (re)insurance, the best estimate is calculated separately for the premium provision and the provision for claims outstanding. Premium provisions are established for future claim events covered by insurance and reinsurance obligations falling within the contract boundary. Provisions for claims outstanding are established for claim events that have already occurred, regardless of whether the claims arising from those events have been reported or not.

The risk margin is set at such a level as to ensure that the value of the technical provisions as a whole (best estimate plus risk margin) is equivalent to the amount that insurance and reinsurance undertakings would be expected to require in order to take over and meet the insurance and reinsurance obligations.

The general principle for the calculation of the risk margin assumes that the whole portfolio of insurance and reinsurance obligations of the entity that calculates the risk margin (the [re]insurance undertaking) is taken over by another undertaking (the reference undertaking). The risk margin covers the following risk categories: underwriting risk, credit risk with respect to reinsurance contracts, arrangements with special purpose vehicles, intermediaries, policyholders and any other material exposures which are closely related to the insurance and reinsurance obligations, and operational risk. The risk margin is calculated by projecting the solvency capital requirement (SCR), covering the risk categories above and using suitable risk drivers. The present value of the total solvency capital requirements is then multiplied by the cost-of-capital rate of 6% prescribed under Solvency II.

The risk margin is allocated to the lines of business on a proportional basis, taking into account both the risk and the best estimate of the technical provisions in the line of business concerned. The best estimate and the risk margin are valued separately. However, where future cash flows associated with insurance or reinsurance obligations can be reliably replicated using financial instruments for which a reliable market value is observable, the value of technical provisions associated with those future cash flows is determined on the basis of the market value of those financial instruments. In this case, separate calculations of the best estimate and the risk margin are not required.

Under Solvency II, we segment our insurance and reinsurance obligations into homogeneous risk groups, and as a minimum by lines of business, when calculating technical provisions.

D 2.1.3 Valuation of financial guarantees and contractual options

When calculating technical provisions, we take account of the value of financial guarantees and contractual options included in insurance and reinsurance policies.

Any assumptions made with respect to the likelihood that policyholders will exercise contractual options, including lapses and surrenders, are based on current and credible information. The assumptions take account, either explicitly or implicitly, of the impact that future changes in financial and non-financial conditions may have on the exercise of those options.

D 2.1.4 Simplifications used in the calculation of technical provisions

Munich Re does not make use of the simplifications described in Title I, Chapter III, Section 6 of the Delegated Regulation except for the application of Article 57 in the valuation of amounts recoverable from non-proportional reinsurance contracts for non-life primary insurance companies. These simplified calculations account for less than 5.0% of our total amounts recoverable from reinsurance contracts. The simplified calculation of the risk margin pursuant to Article 58(a) of the Delegated Regulation is applied for standard-model entities in primary insurance and a small number of non-EEA reinsurance subsidiaries only. These simplified calculations account for less than 2.0% of our total technical provisions.

In addition to these simplifications, Munich Re applies the proportionality principle as set out in Article 29(4) of the Solvency II Directive.

Impact of long-term guarantees and transitional measures

€m	Impact of long-term guarantee (LTG) measures and transitionals (step-by-step approach)			
	Amount with LTG measures and transitionals	Without transitional on technical provisions	Impact of transitional on technical provisions	Impact of all LTG measures and transitionals
Technical provisions	189,535	200,608	11,073	11,073
Basic own funds	47,647	40,117	-7,530	-7,530
Eligible own funds to meet solvency capital requirement	48,197	40,667	-7,530	-7,530
Solvency capital requirement	15,256	15,256	0	0

D 2.1.5 Impact of the transitional deduction on technical provisions

Two life primary insurance companies apply a transitional deduction on technical provisions approved by BaFin. The quantitative impact is shown in the table above.

In line with the requirements defined in the Solvency II Framework Directive, at the end of every year, the transitional deduction described in Article 308d (i.e. the impact of the transitional measure on technical provisions) will decrease on a straight-line basis from 100% during the year beginning on 1 January 2016 to 0% on 1 January 2032. The transitional deduction on technical provisions will therefore be about €0.7bn less as at 31 December 2017. As a result, both the basic own funds and the eligible own funds for covering the solvency capital requirement will decrease by about €0.5bn each.

Use of the transitional deduction on technical provisions has no impact on the solvency capital requirement (SCR) at Group level. The impact of the transitional deduction on technical provisions on the Group minimum capital requirement (MCR) is immaterial, amounting to a reduction of the MCR in the low two-digit-million range.

D 2.2 Uncertainty associated with the amount of technical provisions

The assessment of the best estimate of technical provisions is largely based on available data and actuarial models in conjunction with expert judgement. In view of the uncertainties involved, different experts will arrive at different assumptions based on their individual background, professional experience, or field of discipline. As a result, a certain degree of uncertainty in the models and parameters used is inevitable. Such uncertainty is taken into account in the validation of the technical provisions by testing sensitivities and developing scenarios.

Compared with the uncertainty involved in determining best estimates, the uncertainty attached to the determination of the risk margin as part of the technical provisions is characterised to a lesser extent by a high degree of freedom when selecting assumptions. The risk margin is based on the present value of risk capital

projections, and is largely prescribed by regulatory requirements. Some uncertainty is involved, for example, in selecting the specific projection patterns or the degree of diversification.

D 2.3 Description of methods used for IFRS valuation and main differences compared with Solvency II

In accordance with the provisions of IFRS 4, Insurance contracts, underwriting items are recognised and measured on the basis of US GAAP (United States Generally Accepted Accounting Principles).

D 2.3.1 Recognition and measurement of gross technical provisions under IFRS

The technical provisions are shown as gross figures in the balance sheet, i.e. before deduction of the ceded share. The ceded share is calculated and accounted for on the basis of the individual reinsurance agreements. Acquisition costs for insurance contracts are recognised and amortised over the terms of the contracts (see below).

The measurement of technical provisions is based on US GAAP FAS 60, FAS 97 and FAS 120. Credit insurance contracts are accounted for in accordance with the rules of IFRS 4.

Unearned premiums are accrued premiums already written for future risk periods. For primary insurance, these premiums are calculated separately for each insurance policy pro rata temporis; for reinsurance, nominal percentages are used in some cases where the data for a calculation pro rata temporis is not available. The posting of unearned premiums is restricted to short-term underwriting business; i.e. property-casualty business and parts of accident and health business. In the case of long-term business, a provision for future policy benefits is established.

The provision for future policy benefits in long-term underwriting business is posted for the actuarially calculated value of obligations arising from policyholders' guaranteed entitlements. As well as life insurance, this

concerns portions of health and personal accident insurance, insofar as the business is conducted like life insurance. Measurement is usually based on the prospective method, by determining the difference between the present values of future benefits and future premiums. The actuarial assumptions used for their calculation include, in particular, assumptions relating to mortality, disablement and morbidity, as well as assumptions regarding interest-rate development, lapses and costs. These are estimated on a realistic basis at the time the insurance contracts are concluded, and they include adequate provision for adverse deviation to make allowance for the risks of change, error and random fluctuations.

In reinsurance, measurement is carried out partly individually for each risk and partly collectively for reinsured portfolios, using biometric actuarial assumptions based on the tables of the national actuarial associations. These are adjusted for the respective reinsured portfolio, in line with the probabilities observed for the occurrence of an insured event. Discount rates are chosen that reflect the best estimate of expected investment income, less a safety margin. For the major part of the portfolio, these assumptions are fixed at the beginning of the contract and not changed over its duration.

In primary insurance, measurement is generally carried out individually for each risk. For German life primary insurance, biometric actuarial assumptions based on the tables of the German Association of Actuaries (Deutsche Aktuarvereinigung e. V.) are used. We also largely use the tables of the national actuarial associations for the rest of primary insurance business. The actuarial interest rate employed for discounting in life primary insurance is limited by the respective maximum actuarial interest rate prescribed by the supervisory authorities. In health primary insurance, discount rates are chosen that reflect the best estimate of expected investment income, less a safety margin.

The provision for outstanding claims is for payment obligations arising from insurance contracts in primary insurance and reinsurance where the size of the claim or the timing of the payment is still uncertain. Part of the provision is for known claims for which individually calculated provisions are posted. Another part is for expenses for claims whose occurrence is not yet known. There are also provisions for claims that are known, but whose extent has turned out to be greater than originally foreseen. All these provisions include expenses for internal

and external loss adjustments. The provision for outstanding claims is based on estimates: the actual payments may be higher or lower. The amounts posted are the realistically estimated future amounts to be paid; they are calculated on the basis of past experience and assumptions about future developments (e.g. social, economic or technological factors). Future payment obligations are generally not discounted; exceptions are some provisions for occupational disability pensions and annuities in workers' compensation and other lines of property-casualty business. For determining the provision for outstanding claims, Munich Re uses a range of actuarial projection methods. Where ranges have been calculated, a realistic estimated value for the ultimate loss is determined within these. In applying the statistical methods, we regard large exposures separately.

Other technical provisions mainly include the provision for premium refunds in primary insurance and the provision for profit commission in reinsurance. The former is posted in life and health primary insurance for obligations involving policyholder bonuses and rebates that have not yet been irrevocably allocated to individual contracts at the balance sheet date. These provisions are posted on the basis of national regulations only for German primary insurance business; a retrospective approach is usually taken based on supervisory or individual contract regulations.

Besides this, there are provisions for deferred premium refunds, which are posted for the amounts apportionable to policyholders from the measurement differences between IFRS and local GAAP.

All technical provisions are regularly subjected to a liability adequacy test in accordance with IFRS 4. If current experience shows that the provisions posted on the basis of the original assumptions – less the related deferred acquisition costs and the present value of the related premiums – are inadequate to cover the expected future benefits, we adjust the relevant technical provisions with recognition in profit or loss and disclose this under impairment losses in the notes to the consolidated balance sheet. The appropriateness of unearned premiums and of the provision for outstanding claims is assessed in relation to the realistically estimated future amount to be paid. The appropriateness of the provision for future policy benefits is assessed on the basis of realistic estimates of the actuarial assumptions, the proportional investment result and, for contracts with participation in surplus, the future profit sharing.

D 2.3.2 IFRS recognition and measurement of gross technical provisions for life insurance policies where the investment risk is borne by the policyholders

This item encompasses the provision for future policy benefits in life primary insurance where policyholders bear the investment risk themselves (unit-linked life insurance). The value of the provision for future policy benefits essentially corresponds to the market value of the relevant investments shown under assets.

D 2.3.3 Recognition and measurement of deferred acquisition costs under IFRS

Deferred acquisition costs comprise commissions and other variable costs directly connected with acquisition or renewal of insurance contracts. In accordance with IFRS 4, we do not use shadow accounting for deferred acquisition costs in life primary insurance. In life business and long-term health primary insurance, deferred acquisition costs are amortised over the duration of the contracts.

D 2.3.4 Recognition and measurement of ceded share of technical provisions

The share of technical provisions for business ceded by us is determined from the respective technical provisions in accordance with the terms of the reinsurance agreements (see above). Appropriate allowance is made for the credit risk.

D 2.3.5 Explanation of the differences between valuation methods under Solvency II and IFRS

Definition of insurance contract and scope

In line with Solvency II, technical provisions (and reinsurance recoverables, respectively) are established for all (re)insurance contracts independent of the level of insurance risk underlying a particular contract. This means that Solvency II covers all insurance business, including products or contracts which do not meet the definition of an insurance contract under IFRS 4 or US GAAP.

In cases where it can be verified that the basis risk is not material, technical provisions (and reinsurance recoverables, respectively) may be established for insurance-related non-indemnity contracts (e. g. cat bonds and client-specific insurance derivatives) under Solvency II.

Separating components from an insurance contract

In some cases, it may be required or permitted to separate certain components from insurance contracts. Such contracts may fall partially within the scope of IFRS 4 and partially within the scope of other standards. Under Solvency II, separating components is not permitted.

Recognition

In line with FAS 60, under IFRS a liability for unpaid claims costs, including estimates of incurred but not reported claims and claims adjustment expenses, is accrued when insured events occur. For long-term contracts, a liability for future policy benefits is accrued when premium revenue is recognised. Premiums for long-term contracts are recognised when due from policyholders. Usually, the liability for future policy benefits is established when the insurance contract begins, as this is the point in time when the first premium is due.

In contrast, Solvency II requires initial recognition at the date the (re)insurer becomes a party to the contract or the date the (re)insurance contract begins, whichever date occurs earlier.

Measurement

Cash flows

In accordance with IFRS, for obligations to policyholders that have not yet been irrevocably allocated to individual contracts at the balance sheet date, provisions for premium refunds are posted in life and health primary insurance. Besides this, there are provisions for deferred premium refunds, which are posted for the amounts apportionable to policyholders from the measurement differences between IFRS and local GAAP on the basis of the expected future participation quotas. For unrealised gains and losses on investments available for sale, which are recognised directly in equity, the resultant provision for deferred premium refunds is also posted without impact on profit or loss.

By contrast, Solvency II requirements explicitly prescribe that “all payments to policyholders and beneficiaries, including future discretionary bonuses, which insurance and reinsurance undertakings expect to make, whether or not those payments are contractually guaranteed” are to be taken into account in the calculation of technical provisions, unless those payments represent surplus funds. Consequently, expected future discretionary bonuses are taken into consideration in the cash flows used for the calculation of technical provisions in line with Solvency II.

Additional differences may occur, e.g. resulting from the inclusion of general overhead expenses in Solvency II technical provisions.

Contract boundary

In line with FAS 60, a liability for future policy benefits is established for long-term contracts under IFRS. The liability is the present value of estimated future policy benefits to be paid, less the present value of future premiums to be collected from policyholders. There are no specific provisions with respect to the boundary for the determination of future premiums and future policy benefits.

On the other hand, actuarial practice has evolved depending on the type of product. There might be cases where this leads to a differing contract boundary than under Solvency II requirements.

Discounting

Under Solvency II, we use the basic risk-free interest rates, depending on currency and maturity, when discounting technical provisions. As at the reporting date, we do not make use of any transitional measures or long-term guarantee measures regarding the relevant risk-free interest rate term structure.

In line with IFRS, assumptions regarding interest rates for the calculation of the provision for future policy benefits are estimated on a realistic basis at the time the insurance contracts are concluded. They include adequate provision for adverse deviation to make allowance for the risks of change, error and random fluctuations. In accordance with US GAAP, provision for adverse deviation is made for the individual assumptions. The same applies to the interest rates used for discounting purposes, which include a corresponding reduction.

In reinsurance, discount rates are chosen that reflect the best estimate of expected investment income, less a safety margin. Under US GAAP, the best estimate of discount rates is determined on the basis of the expected investment income from the undertaking's investment portfolio. For the major part of the portfolio, these assumptions are fixed at the beginning of the contract and not changed over its duration.

In German life primary insurance, the actuarial interest rate employed for discounting is limited by the respective maximum actuarial interest rate prescribed by the supervisory authorities. In health primary insurance, discount rates are chosen that reflect the best estimate of expected investment income, less a safety margin. The actuarial assumptions for interest rates are adjusted if this is shown to be necessary by a liability adequacy test in accordance with IFRS 4.

The provision for outstanding claims is generally not discounted under IFRS; exceptions are some provisions for occupational disability pensions and annuities in workers' compensation and other lines of property-casualty business.

Unearned premiums are not discounted.

Other technical provisions mainly include the provision for premium refunds in primary insurance and the provision for profit commission in reinsurance. These technical provisions are not discounted.

Risk margin

Under Solvency II, the cost of capital for assuming risk has to be explicitly taken into account. It is referred to as the risk margin, and is calculated using a cost-of-capital approach.

By contrast, actuarial assumptions in line with IFRS include adequate provision for adverse deviation to make allowance for the risks of change, error and random fluctuations. No explicit risk margin is calculated.

Non-performance risk

Appropriate allowance for credit risk is made in line with both IFRS and Solvency II when calculating the ceded share of technical provisions (i.e. reinsurance recoverables under Solvency II). The methodology for determining the allowance for credit risk is not prescribed under IFRS. Under Solvency II, we comply with the relevant requirements for the determination of the counterparty default adjustment.

Acquisition costs

According to IFRS, acquisition costs for insurance contracts are capitalised and amortised over the terms of the contracts. They are regularly tested for impairment using a liability adequacy test.

Under Solvency II, acquisition costs are taken into consideration as part of the cash flows when calculating technical provisions.

Short-term contracts

For IFRS, a distinction is made between short-term and long-term (re)insurance business (see above). There is no equivalent concept under Solvency II.

Transitional deduction on technical provisions

Two life primary insurance companies apply a transitional deduction on technical provisions approved by BaFin. There is no equivalent deduction under IFRS.

D 2.4 Quantification of differences between IFRS and Solvency II technical provisions

In addition to the qualitative assessment of differences in the valuation of technical provisions between IFRS and Solvency II, the following table provides a quantitative overview. The starting point is IFRS technical provisions allocated to Solvency II lines of business.

The item "Reclassification of balance sheet items", for example, includes deferred acquisition costs recognised under IFRS, accounts receivable and payable not yet due, and contracts not accounted for as insurance under IFRS. These are added to the technical provisions under IFRS to obtain a basis which is comparable to the technical provisions under Solvency II.

Subsequently, an adjustment is made for the underlying economic assumptions. It mainly comprises the effects of discounting based on the EIOPA interest rate in line with Solvency II requirements, offset by discount effects already included in the IFRS technical provisions.

The adjustment for quantified differences in methodology is derived from individual assessments of major methodological differences between IFRS and Solvency II. They allow for a detailed consideration of business-specific differences in the models and assumptions for technical provisions under IFRS and Solvency II.

For the remaining differences of around 0.1% of total Solvency II best-estimate liabilities, no further quantitative attribution to specific drivers is carried out. They largely stem from methodological differences involving a variety of minor drivers.

In a last step, the risk margin is added to the Solvency II technical provisions, as it is not explicitly determined in the IFRS balance sheet.

D 2.5 Reinsurance recoverables under Solvency II

D 2.5.1 General requirements for calculation

The calculation of amounts recoverable from reinsurance contracts and special purpose vehicles by insurance and reinsurance undertakings complies with the rules relating to technical provisions. The amounts recoverable from reinsurance contracts and special purpose vehicles are calculated consistently with the boundaries of the insurance or reinsurance contracts to which they relate.

Under Solvency II, separate calculations are carried out for

- the amounts recoverable from special purpose vehicles,
- the amounts recoverable from finite reinsurance contracts, and
- the amounts recoverable from other reinsurance contracts.

Furthermore, a separate calculation is carried out for the amounts recoverable from reinsurance contracts and special purpose vehicles for non-life insurance obligations regarding premium provisions and provisions for claims outstanding.

Reconciliation of technical provisions - IFRS vs. Solvency II

						31.12.2016
€m	Non-life	Health (similar to non-life)	Health (similar to life)	Life	Unit- and index- linked	Total
IFRS technical provisions	53,774	4,974	53,424	85,737	8,000	205,908
Reclassification of balance sheet items	-1,367	-382	-2,352	-9,553	848	-12,806
Adjustment of economical assumptions	-2,702	-457	-663	711	0	-3,111
Quantified methodological differences	-166	104	2,111	-1,587	330	792
Other differences	-69	307	-197	-634	385	-208
SII technical provisions - best estimate ¹	49,470	4,546	52,324	74,673	9,562	190,575
Risk margin	1,446	126	3,465	4,826	169	10,033
SII technical provisions without LTG guarantees and transitionals on technical provisions	50,916	4,672	55,789	79,500	9,732	200,608
Impact of transitionals on technical provisions	0	0	-76	-10,475	-523	-11,073
SII technical provisions with LTG guarantees and transitionals	50,916	4,672	55,712	69,025	9,209	189,535

¹ Including technical provisions calculated as a whole and before impact of transitional measure.

When calculating amounts recoverable from reinsurance contracts and special purpose vehicles, the time difference between recoverables and direct payments is taken into account.

Where cash flows from the special purpose vehicles to the insurance or reinsurance undertaking do not directly depend on the claims against the insurance or reinsurance undertaking ceding risks, the amounts recoverable from those special purpose vehicles for future claims are only taken into account to the extent that it can be verified in a prudent, reliable and objective manner that the structural mismatch between claims and amounts recoverable is not material.

For the purpose of calculating the amounts recoverable from reinsurance contracts and special purpose vehicles, cash flows only include payments in relation to compensation of insurance events and unsettled insurance claims. Payments in relation to other events or settled insurance claims are accounted for outside the amounts recoverable from reinsurance contracts and special purpose vehicles and other elements of the technical provisions. Where a deposit has been made for the cash flows, the amounts recoverable are adjusted accordingly to avoid a double counting of the assets and liabilities relating to the deposit.

The cash flows relating to provisions for claims outstanding include the compensation payments relating to the claims accounted for in the gross provisions for claims outstanding of the insurance or reinsurance undertaking ceding risks. The cash flows relating to premium provisions include all other payments.

D 2.5.2 Counterparty default adjustment

The result from the calculation of the best estimate is adjusted to take account of expected losses due to default of the counterparty. That adjustment is based on an assessment of the probability of default of the counterparty and the average loss resulting therefrom.

The adjustment to take account of expected losses due to default of a counterparty is calculated as the expected present value of the change in cash flows underlying the amounts recoverable from that counterparty that would arise if the counterparty defaults, including as a result of insolvency or dispute, at a certain point in time. For that purpose, the change in cash flows does not take into account the effect of any risk-mitigating technique that reduces the credit risk of the counterparty, other than risk-mitigating techniques based on collateral holdings. The risk-mitigating techniques that are not taken into account are recognised separately, without increasing the amount recoverable from reinsurance contracts and special purpose vehicles.

The calculation takes into account possible default events over the lifetime of the reinsurance contract or arrangement with the special purpose vehicle, and whether and how the probability of default varies over time. It is carried out separately by each counterparty and for each line of business. In non-life insurance, it is also carried out separately for premium provisions and provisions for claims outstanding.

D 3 Other liabilities

According to Article 75(1)(b) of Directive 2009/138/EC, all other liabilities are to be valued at fair value in the solvency balance sheet. When valuing liabilities, no adjustment is made to take account of the own credit standing of the insurance or reinsurance undertaking. As the valuation basis for Solvency II and IFRS is different, we explain the differences in greater detail for each of the liability items mentioned below. Under IFRS, we generally measure other liabilities at amortised cost or at par value; only derivatives with negative market values are measured at fair value. Where the differences between the fair values in the solvency balance sheet and the IFRS values are immaterial, we use the latter to measure other liabilities, as explained in more detail below.

In addition to the differences in valuation, the structure of the solvency balance sheet also differs from that of the IFRS balance sheet. Therefore, the balance sheet items are not directly comparable. Where such differences in allocation exist, they are explained for the individual items. Where it was possible to reclassify liabilities as per IFRS in order to comply with the structure prescribed for the solvency balance sheet, we made this reclassification.

Other liabilities

€m	Solvency II value
Contingent liabilities	8
Provisions other than technical provisions	1,677
Pension benefit obligations	2,978
Deposits from reinsurers	890
Deferred tax liabilities	14,927
Derivatives	621
Debts owed to credit institutions	168
Financial liabilities other than debts owed to credit institutions	830
Insurance and intermediaries payables	3,012
Reinsurance payables	129
Payables (trade, not insurance)	5,267
Subordinated liabilities	4,902
Subordinated liabilities not in BOF	149
Subordinated liabilities in BOF	4,753
Any other liabilities, not elsewhere shown	43
Other liabilities total	40,355

D 3.1 Contingent liabilities

In the solvency balance sheet, contingent liabilities are to be recognised as a liability if they are material, i.e. if information about the current or potential amount or nature of the liability could influence the decision-making or judgement of the intended user of that information. As a further precondition for recognition, an outflow of resources must be more than a remote possibility.

We measure contingent liabilities based on the expected present value of future cash flows required to settle the contingent liability over its lifetime, using the relevant risk-free interest rate term structure. At Munich Re, valuation is made on a market-consistent basis in accordance with credit default swap (CDS) spreads observable in the markets. It is assumed that the (present) value of a contingent liability is the same as the present value of the (probability weighted) CDS premium payable in order to hedge against the financial risks arising from the contingent liability. Contingent liabilities that cannot be reliably measured are not recognised.

Under IFRS, contingent liabilities are generally not recognised. However, disclosure in the notes to the financial statements is required if there is more than a remote possibility that such a liability will result in an obligation to make a payment.

D 3.2 Provisions other than technical provisions

Both in the solvency balance sheet and under IFRS, our valuation of other provisions is based on a best estimate of the amount that would be required to settle the liabilities as at the balance sheet date, i.e. the amount we would reasonably have to pay to satisfy the liabilities or transfer them to a third party as at the balance sheet date. If there is a range of possible estimates having an equal degree of probability, the midpoint of the range is used. If the interest-rate effect is material, we value the provision at the present value of the expected expenditure. If it is immaterial, we disregard it.

D 3.3 Pension benefit obligations

The following explanations do not relate exclusively to pension benefit obligations, but also take into account other material employee benefits.

Under Solvency II, we measure obligations for employee benefits in accordance with IAS 19. According to IAS 19, there are two different types of pension obligations: defined contribution plans and defined benefit plans.

Under defined contribution plans, the undertakings pay fixed contributions to an insurer or a pension fund. This covers the undertakings' obligations in full. Therefore, under both IFRS and Solvency II, a defined contribution plan is not recognised as an obligation in the balance sheet. In 2016, the contributions paid to defined contribution plans totalled €67m.

Under defined benefit plans, the staff member is promised a particular level of retirement benefit either by the undertakings or by a pension fund. The undertakings' contributions needed to finance this are not fixed in advance. If pension obligations are covered by assets held by a legally separate entity (e.g. a fund or a contractual trust agreement in the form of a two-way trust) – assets that may only be used to cover the pension commitments given and are not accessible to creditors – the pension obligations are shown less the amount of these plan assets. If the fair value of the assets exceeds the related outsourced pension benefit obligations, this asset is recognised as a "pension benefit surplus".

Actuarial gains or losses from obligations for employee benefits and plan assets result from the deviation of actual risk experience from estimated risk experience. Since under IFRS, Munich Re recognises actuarial gains and losses directly in the period in which they occur, there is no difference to Solvency II.

In accordance with the definitions in IAS 19, the obligations for employee benefits recognised in the balance sheet break down as follows:

Major benefits for employees

	31.12.2016
€m	Solvency II value
Short-term obligations (provisions for holidays and overtime, bonuses) ¹	261
Defined benefit plans (including medical cover)	3,058
Other long-term benefits (semi-retirement and early retirement, provisions for anniversary benefits, multi-year performance) ²	299
Benefits on termination of employment contract (semi-retirement, severance payments)	20

¹ Part of SII balance sheet item "Payables (trade, not insurance)".

² Part of SII balance sheet item "Provisions other than technical provisions".

Munich Re undertakings generally give commitments to their staff in the form of defined contribution plans or defined benefit plans (within the meaning of IAS 19). The type and the amount of the pension obligation are determined by the conditions of the respective pension plan.

The most important plans are the following:

The pension obligations of Munich Reinsurance Company include disability and old-age pensions, and pensions for surviving dependants. The amount of the pensions generally depends on salary and length of service. The defined benefits granted up to 31 December 2007 are financed through a fund. New members joining on or after 1 January 2008 receive pension commitments in the form of defined contribution plans financed by means of insurance contracts securing the obligations under pension schemes. The fund and insurance contracts have been grouped in a contractual trust agreement (CTA).

The pension obligations of ERGO Group include disability and old-age pensions, and pensions for surviving dependants. The amount of the pensions generally depends on salary and length of service. The commitments are usually funded through pension provisions. New members receive pension commitments in the form of defined contribution plans financed by means of intra-Group insurance contracts securing the obligations under pension schemes. There are also medical-care benefit obligations.

The pension obligations of Munich Re America include pensions for employees and surviving dependants. The amount of the pensions generally depends on includable compensation and length of service. The plan is financed through a trust and pension provisions. The plan was closed to new members effective 1 January 2006 and to all remaining members effective 31 December 2011. With effect from 1 January 2012, all members now receive pension commitments in the form of defined contribution plans. There are also retiree medical-care benefit obligations.

Under Solvency II, pension obligations are recognised in accordance with IAS 19, using the projected unit credit method. The calculation includes not only the pension entitlements and current pensions known at the balance sheet date, but also their expected future development.

The discount rate applied to these obligations is based on the yields for high-quality bonds (e.g. corporate or government bonds). The currency and term of the bonds correspond to the currency and estimated term of the obligations.

The mortality and disability assumptions are based on local tables used for the valuation of pension benefit obligations; these may be adapted to reflect the experience of the respective undertaking. Rates of employee turnover and early retirement are based on the individual experience of the Munich Re undertakings.

Actuarial assumptions

%	31.12.2016
Discount rate	2.2
Future increases in entitlement/salary	1.9
Future pension increases	1.4
Medical-cost trend rate	4.3

Breakdown of the fair value of plan assets for defined benefit plans

%	31.12.2016
Quoted market price in an active market	
Cash or cash equivalents	0.6
Equity instruments	7.6
Debt instruments	49.0
Real estate	0.8
Derivatives	0.0
Securities funds	16.4
Asset-backed securities	0.0
Structured debt	0.0
Insurance contracts	24.1
Other	1.4
Total	100.0

D 3.4 Deposits from reinsurers

Deposits from reinsurers are collateral for technical provisions covering business ceded to reinsurers and retrocessionaires. As a rule, the changes in these deposits derive from the changes in the relevant technical provisions covering ceded business. Deposits from reinsurers thus do not have a fixed maturity date, their release generally being dependent on run-off of the corresponding provisions.

In the solvency balance sheet, we measure deposits from reinsurers at fair value. Under IFRS, we recognise these liabilities at nominal value.

D 3.5 Deferred tax liabilities

Under Solvency II, deferred taxes are determined pursuant to Article 15 in conjunction with Article 9 of Delegated Regulation (EU) 2015/35 (Delegated Regulation).

In accordance with Article 9(1) and (2) of the Delegated Regulation, assets and liabilities are recognised and valued in accordance with IFRS requirements, provided that these are consistent with Article 75 of Directive

2009/138/EC. Therefore, under Solvency II, deferred tax liabilities are recognised and valued in accordance with IAS 12.

Deferred taxes are calculated on the basis of the difference between the values ascribed to liabilities recognised and valued in accordance with Article 75 of Directive 2009/138/EC, and the values ascribed to liabilities recognised and valued for tax purposes. Deferred tax liabilities are recognised in cases where asset items have to be valued higher, or liability items lower, in the solvency balance sheet than in the tax accounts of Munich Re, and these differences will be eliminated at a later date with a corresponding effect on taxable income (temporary differences).

Further information on the recognition of deferred taxes can be found in section D 1.4 Deferred tax assets.

D 3.6 Financial liabilities including derivatives and debts owed to credit institutions

In the solvency balance sheet, financial liabilities including derivatives and debts owed to credit institutions are to be measured at fair value. After initial recognition, no adjustments are made to take account of the own credit standing of the insurance or reinsurance undertaking. Thus, financial liabilities are measured at fair value at the reporting date without taking account of any improvement or deterioration in Munich Re's own credit risk. If the impact of such an improvement or deterioration is immaterial, we do not adjust the fair values accordingly.

For Munich Re bonds and derivatives traded on a stock exchange, the fair values are the stock-market prices, if available. For the other financial liabilities, we determine the fair values using net present-value methods with observable market inputs. Further details are set out below:

- With regard to the valuation models used for determining the fair value of derivatives, reference is made to the table "Valuation techniques for financial instruments" and the explanations given in section D 1.7.3 Determining fair values.
- For the bonds we have issued, we use the market prices provided by price quoters to determine fair value.
- The fair values of our debts owed to credit institutions are determined using the present-value method, in part exclusively using observable market inputs, and partly also taking into account non-observable inputs.

Under IFRS, we measure our financial liabilities at amortised cost using the effective interest method – except for derivatives with a negative market value, which are recognised at fair value.

More details on fair value measurement, the measurement hierarchy levels and the models used for determining fair values can be found in section D 1.7.3 Determining fair values.

D 3.7 Insurance and intermediaries payables

In the solvency balance sheet, insurance and intermediaries payables must be recognised at fair value; under IFRS, they must be recognised at the amount actually required to redeem or settle them. In contrast to the solvency balance sheet, under IFRS we also recognise interest-bearing accumulated participation in life insurance surplus under this item.

D 3.8 Reinsurance payables

In the solvency balance sheet, reinsurance payables must be recognised at fair value; under IFRS, they are recognised at the amount actually required to redeem or settle those payables.

Unlike in financial reporting under IFRS, under Solvency II payables from brokerage and from reinsurance business assumed are not recognised under reinsurance payables, but under insurance and intermediaries payables.

D 3.9 Payables (trade, not insurance)

In the solvency balance sheet, the item "Payables (trade, not insurance)" covers in particular payables from dividends, payables from profit pooling or transfer agreements, payables from taxes, and other payables. These payables are measured at fair value at the reporting date without taking account of any improvement or deterioration in the undertaking's own credit risk. However, for reasons of simplification, we measure payables from dividends and payables from profit pooling or transfer agreements at their IFRS carrying amount, i.e. at amortised cost.

Payables from taxes and other payables are discounted, taking into account the actual risk-free interest rates and relevant interest-rate spreads.

Both reinsurance payables and insurance and intermediaries payables are included in other payables under IFRS, but shown as separate items in the solvency balance sheet.

Under Solvency II, all insurance contracts are recognised under technical provisions irrespective of the level of insurance risk involved in the individual contracts. Therefore, payables resulting from insurance or reinsurance contracts without significant risk transfer are – notwithstanding IFRS – not reported as payables, but as part of the technical provisions.

D 3.10 Subordinated liabilities

Subordinated liabilities are liabilities which, in the event of liquidation or insolvency, are only satisfied after the claims of other creditors.

They are recognised at fair value in the solvency balance sheet. For Munich Re subordinated bonds, we take the stock market prices as fair values. Credit spreads relevant for Munich Re are obtained from an external provider and are based on credit default swaps. For valuation purposes, the quoted stock-market prices are adjusted taking into account the change in credit spread from the date of issuance until the valuation date, multiplied by the modified duration for the stock-market price at the valuation date.

For the other subordinated liabilities, we determine the fair values using net present-value methods with observable market parameters. Whether or not subordinated liabilities are eligible for inclusion in own funds is of no importance for valuation purposes.

Under IFRS, we value them at amortised cost using the effective interest method.

D 3.11 Any other liabilities, not elsewhere shown

This item includes liabilities from prepayments received prior to the reporting date that are not earned or due until after the balance sheet date. Liabilities for these prepayments are recognised at the reporting date to take into account that the prepayments received relate to outstanding obligations of the undertaking. Thus, recognition is mandatory to represent the correct amount of own funds as at the reporting date.

In contrast to our financial reporting, in the solvency balance sheet derivatives (€1,811m) are reclassified as derivatives.

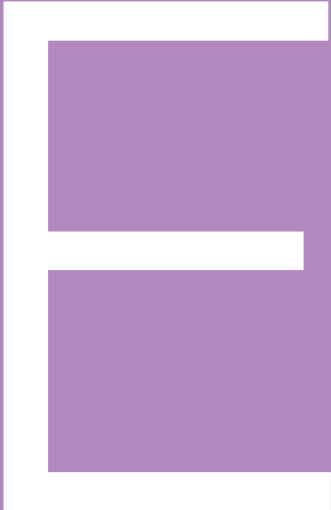
Any other liabilities generally have to be measured at fair value in the solvency balance sheet. Where the discounting effect is immaterial, we do not discount the liabilities concerned.

D 4 Alternative methods for valuation

Detailed information on determining the fair values of the individual assets and other liabilities can be found in section D 1.7.3 under Determining fair values. The valuation techniques described therein are regularly tested by our asset managers as regards their suitability for valuation of the assets and liabilities concerned, and adapted if necessary.

D 5 Any other information

We do not know of any other material information not already covered in the other sections of Part D.



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E Capital management

E 1 Own funds

E 1.1 Aims, policies and processes to manage own funds

Through active capital management, we ensure that Munich Re's capital is always maintained at an appropriate level. In addition to the capital requirements determined using our internal risk model, more far-reaching requirements by regulatory authorities, rating agencies and our key insurance markets must also be met.

Capital management planning takes place as part of our annual medium-range business planning. Relevant capital-management key performance indicators are regularly checked as part of the risk management system.

There were no significant changes during the reporting period.

We aim to ensure that our financial strength is such that it enables us to take advantage of profitable opportunities for growth, is not significantly affected by normal fluctuations in capital market conditions, and remains at a reasonable level even in the wake of major loss events or substantial falls in the stock markets. At the same time, we also define an adequate level of Group own funds as one which does not lastingly exceed that which is required. Excess capital is returned to our shareholders via attractive dividends and share buy-backs. In practice, capital repatriation comes up against limits because German accounting standards force our parent, Munich Reinsurance Company, to maintain the claims equalisation provision in local GAAP accounting at a level that exceeds the economic requirements. This restricts the revenue reserves and profit distribution possibilities.

The Annual General Meeting approved the recommendation of the Board of Management and Supervisory Board to raise the dividend for 2016 to €8.60 per share. Munich Re is adhering to its shareholder-friendly and sustainable dividend policy. We are confident that we will be able to sustain this higher level in the future.

E 1.2 Differences between IFRS equity and Solvency II excess of assets over liabilities

The main differences between the IFRS equity of Munich Re and the excess of assets over liabilities in the solvency balance sheet are due to the differing rules for recognition and valuation.

The Solvency II methodology makes more extensive use of market values in the balance sheet than IFRS. For example, investments are recognised in the solvency balance sheet at market value, whereas under IFRS this applies only to securities available for sale. The valuation methodology for underwriting items in accordance with Solvency II differs significantly from the valuation in our consolidated financial statements. The value of the technical provisions in accordance with Solvency II corresponds to the current amount that insurance and reinsurance undertakings would have to pay if they were to transfer their insurance and reinsurance liabilities immediately to another insurance or reinsurance undertaking.

The quantitative statement of the differences can be seen in the table "Excess of assets over liabilities (Solvency II) in comparison with IFRS equity".

E 1.3 Consolidation methods for own funds

Group solvency is calculated on the basis of the consolidated accounts (Method 1; namely as set out in Article 230 of Directive 2009/138/EC). The table "Consolidation method for Group own funds" shows how consolidated data is calculated for the respective related undertakings in the Group.

Excess of assets over liabilities (Solvency II) in comparison with IFRS equity

€m	Solvency II	IFRS ¹	Difference
a) Goodwill and other intangible assets	0	3,583	-3,583
b) Surplus funds	0	-2,295	2,295
c) Investments, including deposits retained on assumed reinsurance and cash	247,015	232,327	14,688
d) Subordinated liabilities	-4,902	-4,218	-684
e) Deferred tax (net)	-6,300	-1,902	-4,398
f) Other assets and liabilities	-5,649	-5,365	-285
g) Underwriting assets and liabilities	-185,224	-190,346	5,121
Excess of assets over liabilities (Solvency II) in comparison with IFRS equity	44,939	31,785	13,155

1 Some IFRS figures have been reclassified to ensure comparability with Solvency II.

E 1.4 Composition of own funds

E 1.4.1 Eligible own funds

The starting point for the calculation of the eligible own funds is the excess of assets over liabilities.

Then the basic own funds are calculated by adjusting the excess of assets over liabilities according to Solvency II for the factors relevant to Munich Re.

Consolidation method for Group own funds

Type of undertaking	SII Delegated Regulation (EU) 2015/35/ Article	Determination of consolidated data (method 1)
Dominant influence		
Insurance and reinsurance undertakings, insurance holding companies and mixed financial holding companies	335 (1) (a)	Full consolidation
Ancillary services undertakings	335 (1) (a)	Full consolidation
Institutions for occupational retirement provision	335 (1) (e)	Proportional share of the own funds calculated in accordance with the relevant sectoral rules
Credit institutions, investment firms and financial institutions	335 (1) (e)	Proportional share of the own funds calculated in accordance with the relevant sectoral rules
Alternative investment fund managers	335 (1) (e)	Proportional share of the own funds calculated in accordance with the relevant sectoral rules
UCITS management companies	335 (1) (e)	Proportional share of the own funds calculated in accordance with the relevant sectoral rules
Special purpose vehicles meeting the requirements of Article 211	335 (1) (b) 329 (3)	Not taken into account
Other special purpose vehicles	335 (1) (b)	Full consolidation
Non-regulated undertakings that conduct financial transactions	335 (1) (e)	Proportional share of the own funds calculated in accordance with the relevant sectoral rules
Other undertakings	335 (1) (f) 13	Other methods*
Undertakings for collective investment in transferable securities (UCITS/AIF)	335 (1) (f) 13	Other methods*
Significant influence/joint venture		
Insurance and reinsurance undertakings, insurance holding companies and mixed financial holding companies	335 (1) (c), (d)	Proportional consolidation and/or adjusted equity method
Ancillary services undertakings	335 (1) (c), (f)	Proportional consolidation and/or other methods*
Institutions for occupational retirement provision	335 (1) (e)	Proportional share of the own funds calculated in accordance with the relevant sectoral rules
Credit institutions, investment firms and financial institutions	335 (1) (e)	Proportional share of the own funds calculated in accordance with the relevant sectoral rules
Alternative investment fund managers	335 (1) (e)	Proportional share of the own funds calculated in accordance with the relevant sectoral rules
UCITS management companies	335 (1) (e)	Proportional share of the own funds calculated in accordance with the relevant sectoral rules
Non-regulated undertakings that conduct financial transactions	335 (1) (e)	Proportional share of the own funds calculated in accordance with the relevant sectoral rules
Other undertakings	335 (1) (f) 13	Other methods*
Undertakings for collective investment in transferable securities (UCITS/AIF)	335 (1) (f) 13	Other methods*

* Other methods - valuation hierarchy in accordance with Article 13 of Delegated Regulation (EU) 2015/35.

Subordinated liabilities should be added provided that they are available at all times to cover losses on a going-concern basis. Munich Re's subordinated liabilities meet this requirement. Share buy-backs that have been announced but not completed as at the reporting date and own shares held must be deducted. The planned dividend for the 2016 financial year is still included in the eligible own funds as at 31 December 2016. The eligibility of certain own-fund items – such as surplus funds and minority interests in Group equity – is subject to restrictions, and they must be deducted. The carrying amounts of shareholdings in companies in other financial sectors such as credit institutions and investment firms must also be deducted. Finally, capital calculated in accordance with sectoral regulations that is allocated to other financial sectors is included to obtain the Group's eligible own funds.

For Solvency II, own funds are divided into four levels of quality – known as tiers – depending on their ability to absorb losses. Tier 1 unrestricted is the highest quality, and Tier 3 is the lowest. Munich Re's own funds are of very high quality.

The table "Own funds" contains information about the structure, amount and tier allocation of eligible own funds as at 31 December 2016. It also shows the deductions of non-available own funds as a result of restrictions on transferability and fungibility.

As can be seen in the table "Own funds", there is no effect due to limits in respect of eligible own funds classified as Tier 2, Tier 3, or Tier 1 unrestricted.

The solvency ratio of 316% shown includes transitional measures under Solvency II. Excluding transitional measures, the solvency ratio would have been 267% as at 31 December 2016.

In addition, the solvency ratio of 316% does not include the dividend of €1.3bn for the 2016 financial year. After deduction of the dividend, the eligible own funds amount to €46.9bn and the solvency ratio to 307%.

Own funds

€m	Total	Tier 1 - unrestricted	Tier 1 - restricted	Tier 2	Tier 3
Basic own funds before deduction for participations in other financial sector					
Ordinary share capital (gross of own shares)	588	588		0	
Non-available called but not paid in ordinary share capital at group level	0	0		0	
Share premium account related to ordinary share capital	6,845	6,845		0	
Initial funds, members' contributions or the equivalent basic own - fund item for mutual and mutual-type undertakings	0	0		0	
Subordinated mutual member accounts	0		0	0	0
Non-available subordinated mutual member accounts at group level	0		0	0	0
Surplus funds	2,295	2,295			
Non-available surplus funds at group level	82	82			
Preference shares	0		0	0	0
Non-available preference shares at group level	0		0	0	0
Share premium account related to preference shares	0		0	0	0
Non-available share premium account related to preference shares at group level	0		0	0	0
Reconciliation reserve	33,154	33,154			
Subordinated liabilities	4,753		1,400	3,307	47
Non-available subordinated liabilities at group level	47		0	0	47
An amount equal to the value of net deferred tax assets	748				748
The amount equal to the value of net deferred tax assets not available at the group level	92				92
Other items approved by supervisory authority as basic own funds not specified above	0	0	0	0	0
Non available own funds related to other own funds items approved by supervisory authority	0	0	0	0	0
Minority interests (if not reported as part of a specific own fund item)	227	227	0	0	0
Non-available minority interests at group level	192	192	0	0	0
Own funds from the financial statements that should not be represented by the reconciliation reserve and do not meet the criteria to be classified as Solvency II own funds					
Own funds from the financial statements that should not be represented by the reconciliation reserve and do not meet the criteria to be classified as Solvency II own funds	0	0			
Deductions					
Deductions for participations in other financial undertakings, including non-regulated undertakings carrying out financial activities	551	551	0	0	
Whereof deducted according to art 228 of the Directive 2009/138/EC	0	0	0	0	0
Deductions for participations where there is non-availability of information (Article 229)	0	0	0	0	0
Deduction for participations included by using D&A when a combination of methods is used	0	0	0	0	0
Total of non-available own fund items	413	274	0	0	139
Total deductions	964	825	0	0	139
Total basic own funds after deductions	47,647	42,284	1,400	3,307	655

Own funds

€m	Total	Tier 1 - unrestricted	Tier 1 - restricted	Tier 2	Tier 3
Ancillary own funds					
Unpaid and uncalled ordinary share capital callable on demand	0			0	
Unpaid and uncalled initial funds, members' contributions or the equivalent basic own fund item for mutual and mutual - type undertakings, callable on demand	0			0	
Unpaid and uncalled preference shares callable on demand	0			0	0
A legally binding commitment to subscribe and pay for subordinated liabilities on demand	0			0	0
Letters of credit and guarantees under Article 96(2) of the Directive 2009/138/EC	0				
Letters of credit and guarantees other than under Article 96(2) of the Directive 2009/138/EC	0			0	
Supplementary members calls under first subparagraph of Article 96(3) of the Directive 2009/138/EC	0			0	
Supplementary members calls - other than under first subparagraph of Article 96(3) of the Directive 2009/138/EC	0			0	0
Non available ancillary own funds at group level	0			0	0
Other ancillary own funds	0			0	0
Total ancillary own funds	0			0	0
Own funds of other financial sectors					
Credit institutions, investment firms, financial institutions, alternative investment fund manager, financial institutions	367	367	0	0	
Institutions for occupational retirement provision	182	182	0	0	0
Non regulated entities carrying out financial activities	2	2	0	0	
Total own funds of other financial sectors	551	551	0	0	
Own funds when using the D&A, exclusively or in combination of method 1					
Own funds aggregated when using the D&A and combination of method	0	0	0	0	0
Own funds aggregated when using the D&A and a combination of method net of IGT	0	0	0	0	0
Total available own funds to meet the consolidated group SCR (excluding own funds from other financial sector and from the undertakings included via D&A)	47,647	42,284	1,400	3,307	655
Total available own funds to meet the minimum consolidated group SCR	46,991	42,284	1,400	3,307	
Total eligible own funds to meet the consolidated group SCR (excluding own funds from other financial sector and from the undertakings included via D&A)	47,647	42,284	1,400	3,307	655
Total eligible own funds to meet the minimum consolidated group SCR	46,153	42,284	1,400	2,469	

Own funds

€m	Total	Tier 1 - unrestricted	Tier 1 - restricted	Tier 2	Tier 3
Consolidated Group SCR	15,256				
Minimum consolidated Group SCR	12,345				
Ratio of eligible own funds to the consolidated Group SCR (excluding other financial sectors and the undertakings included via D&A)	317%				
Ratio of eligible own funds to minimum consolidated Group SCR	374%				
Total eligible own funds to meet the Group SCR (including own funds from other financial sector and from the undertakings included via D&A)	48,197	42,835	1,400	3,307	655
SCR for entities included with D&A method	0				
Group SCR	15,256				
Ratio of eligible own funds to Group SCR including other financial sectors and the undertakings included via D&A	316%				

The table "Reconciliation reserve" shows the calculation of the Group's reconciliation reserve as at 31 December 2016. It also shows expected profit included in future premiums (EPIFP).

E 1.4.2 Subordinated liabilities

Munich Re's subordinated liabilities amount to €4.8bn at the reporting date. In addition to Munich Reinsurance Company, ERGO Versicherung Aktiengesellschaft, Vienna and HSB Group, Inc., Dover show subordinated liabilities totalling €72m at the reporting date.

Subordinated liabilities subject to transitional measures¹ can be seen in the table "Composition of subordinated liabilities, of which counted under transitionals". The table includes two subordinated liabilities from Munich Reinsurance Company totalling €1.8bn that are subject to the transitional measures. They were issued before Solvency II came into force, and could until 31 December 2015 partly be used to meet the available solvency margin requirements under Solvency I. Of this, €1.4bn could be used to at least 50% (Tier 1) and €386m could be used to at least 25% (Tier 2).

The other three Munich Reinsurance Company subordinated liabilities totalling €2.9bn that are not subject to the transitional measures meet the criteria for Tier 2 classification under Solvency II. In particular, they have an original maturity of at least ten years, and the first contractual opportunity to repay does not occur before five years from the date of issuance.

Reconciliation reserve

€m	Total
Excess of assets over liabilities	44,939
Own shares (held directly and indirectly)	746
Forseeable dividends, distributions and charges	337
Other basic own fund items	10,703
Adjustment for restricted own fund items in respect of matching adjustment portfolios and ring fenced funds	0
Other non available own funds	0
Reconciliation reserve before deduction for participations in other financial sectors	33,154
Expected profits	
Expected profits included in future premiums (EPIFP) - Life business	12,105
Expected profits included in future premiums (EPIFP) - Non-life business	898
Total EPIFP	13,004

¹ Transitional measures for own funds pursuant to Article 308b(9) and (10) of Directive 2014/51/EU of 16 April 2014 amending Directive 2009/138/EC.

Composition of subordinated liabilities, of which counted under transitionals

€m	Total	Tier 1 total	Tier 1 counted under transitionals	Tier 2 total	Tier 2 counted under transitionals	Tier 3
Subordinated liabilities						
Dated subordinated liabilities	3,341	0	0	3,294	386	47
Undated subordinated liabilities with a contractual opportunity to redeem	1,412	1,400	1,400	13	13	0
Undated subordinated liabilities with no contractual opportunity to redeem	0	0	0	0	0	0
Total subordinated liabilities	4,753	1,400	1,400	3,307	399	47

E 2 Solvency capital requirement and minimum capital requirement

E 2.1 SCR breakdown by risk category

The solvency capital requirement (SCR) is the amount of eligible own funds that Munich Re needs to have available, with a given risk appetite, to cover unexpected losses in the following year. The solvency capital requirement corresponds to the value at risk of the

economic profit and loss distribution over a one-year time horizon with a confidence level of 99.5%. This metric thus equates to the economic loss for Munich Re that, given unchanged exposures, will be statistically exceeded in no more than one year in every 200.

The application of transitional measures in some subsidiary undertakings has no effect on Munich Re's solvency capital requirement.

Solvency capital requirement - for groups on full internal models

€m	Calculation of solvency capital requirement
Unique number of component	
201 - Property-casualty	6,759
202 - Life and health	5,199
203 - Market	9,895
204 - Credit	4,026
205 - Operational risk	1,391
207 - Loss-absorbing capacity of deferred taxes	-2,615
208 - Other risk	594
Calculation of solvency capital requirement	
Total undiversified components	25,248
Diversification	-9,992
Capital requirement for business operated in accordance with Art. 4 of Directive 2003/41/EC	0
Solvency capital requirement excluding capital add-on	15,256
Capital add-ons already set	0
Solvency capital requirement	15,256
Other information on SCR	
Amount/estimate of the overall loss-absorbing capacity of technical provisions	-2,931
Amount/estimate of the overall loss-absorbing capacity of deferred taxes	-2,615
Total amount of notional solvency capital requirements for remaining part	0
Total amount of notional solvency capital requirements for ring-fenced funds (other than those related to business operated in accordance with Art. 4 of Directive 2003/41/EC (transitional))	0
Total amount of notional solvency capital requirement for matching adjustment portfolios	0
Diversification effects due to RFF nSCR aggregation for Article 304	0
Minimum consolidated Group solvency capital requirement	12,345
Information on other entities	
Capital requirement for other financial sectors (non-insurance capital requirements)	208
Capital requirement for other financial sectors (non-insurance capital requirements) - Credit institutions, investment firms and financial institutions, alternative investment fund managers, UCITS management companies	82
Capital requirement for other financial sectors (non-insurance capital requirements) - Institutions for occupational retirement provisions	126
Capital requirement for other financial sectors (non-insurance capital requirements) - Capital requirement for non-regulated entities carrying out financial activities	0
Capital requirement for non-controlled participation requirements	386
Capital requirement for residual undertakings	0

“Other risks” includes contributions from institutions for occupational retirement provisions and financial institutions to Munich Re’s solvency capital requirement.

Further details about the SCR broken down by risk category can be found in Part C Risk profile.

The minimum consolidated Group SCR is calculated from the total minimum capital requirements for the solo undertakings in the Group.

The main sources of diversification in the internal model are our broad spread across the different risk categories (underwriting, market, credit and operational risks) and our combination of primary insurance and reinsurance business. We also take into account dependencies between the risks, which can result in higher capital requirements than would be the case if no dependency were assumed.

The following companies also use the Munich Re internal model to calculate their solvency capital requirement at solo undertaking level:

- Munich Reinsurance Company, Munich, Germany;
- Munich Re of Malta p.l.c., Ta’ Xbiex, Malta;
- DKV Deutsche Krankenversicherung AG, Cologne, Germany;
- ERGO Versicherung AG, Düsseldorf, Germany;
- ERGO DIREKT Versicherung AG, Fürth, Germany; and
- Great Lakes Insurance SE, Munich, Germany.

Munich Re underwrites risks as a member of the association of underwriters known as Lloyd’s via the companies Munich Re Syndicate Ltd., London, and Beaufort Underwriting Agency, London. The risks of these companies are taken into account in the Munich Re internal model; at the same time, they are also taken into account in the Lloyd’s internal model.

E 3 Use of the duration-based equity-risk sub-module in the calculation of the solvency capital requirement

Munich Re does not use a duration-based equity-risk sub-module to calculate the solvency capital requirement.

E 4 Differences between the standard formula and any internal model used

E 4.1 Scope of the internal model

Our internal model is based on specially modelled distributions for the risk categories property-casualty, life and health, market, credit and operational risks. We use primarily historical data for the calibration of these distributions, complemented in some areas by expert judgement. Our historical data covers a long period to take account of our one-year time horizon and to provide a stable and appropriate estimate of our risk parameters.

The dependencies are calibrated by means of scenarios that affect more than one risk category simultaneously and comparisons with relevant standards. We also take account in our risk model of the risk-mitigating effect of technical provisions in life and health primary insurance.

As a last step, we determine the effect of the loss absorbency of deferred taxes.

The internal model adequately covers material quantifiable risks arising from underwriting (non-life, life, and health), market risk, credit risk, and operational risk. It also covers biometric risks from pension liabilities in all of Munich Re's areas of operation.

Details about the stated categories and about non-quantified risks can be found in Part C Risk profile.

E 4.2 Methods of the internal model

The core principles used in modelling the individual risk categories are set out below:

Property-casualty underwriting risk

We apply appropriate methodology in our modelling for basic losses, large losses and accumulation losses (especially those resulting from natural catastrophes). For the modelling of basic losses, we use closed analytical distributions to replace the separate simulation of future events. We use collective models for the modelling of large and accumulation losses.

The methodology used for modelling property-casualty risks at the relevant undertakings of ERGO Group AG differs slightly in some areas from that applied at Munich Re (Group) level to better reflect the particular features of those undertakings' risk profiles.

Life and health underwriting risk

Mortality, longevity, disability, customer behaviour, administration expenses and the costs of benefits paid in health insurance are modelled as separate risk drivers in the internal model.

We make a distinction in the modelling between risks that affect the portfolio in the short term (such as pandemics) and long-term risks (such as changes in the assumptions for mortality, disability or customer behaviour).

In life reinsurance, possible future scenarios are determined by Monte Carlo simulations of those risk drivers.

The modelling in life primary insurance and German health primary insurance is based on stress scenarios, which are applied directly to the parameters of the stochastic valuation models.

In the Munich Health field of business, we apply various methods depending on the duration of the business. For example, for long-term Munich Health business we use methods similar to those in life primary insurance and life reinsurance, whilst for short-tail business the methods used for basic losses in the property-casualty risk category are applied.

Market risk

Market risks are modelled in the internal model by means of Monte Carlo simulation of possible future market scenarios, taking account of risk drivers relevant to Munich Re (Group) at a granular level. We revalue our assets and liabilities for each simulated market scenario, thus showing the probability distribution for changes to basic own funds.

Credit risk

A Monte Carlo simulation is used to model credit risk in the internal model, and we take particular account of the creditworthiness of each counterparty.

Operational risk

We use scenarios based on expert estimates to quantify operational risk in the internal model.

E 4.3 Material differences to standard formula

The most relevant deviations between the assumptions of the standard formula and the risk profile of Munich Re are:

- The standard formula does not take sufficient account of the effects of Munich Re's diversified portfolio structure. This applies to both underlying exposures and sales channels, and to the broad geographic diversification.
- The standard formula oversimplifies risks that are not material for most European insurance undertakings. The most important examples with respect to Munich Re are the solvency capital requirements for
 - non-proportional property insurance,
 - non-European natural catastrophe risks,
 - life reinsurance, and
 - assets in foreign currencies that are required for the operation of non-European subsidiaries.

As a result of these limitations of the standard formula, Munich Re decided to use an internal model to calculate its solvency capital requirements. Below, we compare the assumptions of the internal model with those of the standard formula, and explain why the approach taken in the internal model is more appropriate.

The quantitative impact of the differences between the standard formula and the internal model on the resulting SCR is typically much larger in the reinsurance segment than in the primary insurance segment. This is mainly due to the fact that the standard formula was designed for an average-sized European insurance undertaking, and not for a global reinsurance portfolio like Munich Re's. Consequently, the solvency capital requirements based on the standard formula are to a large extent inappropriate for most lines of business or geographical areas in reinsurance. For primary insurance in the European Economic Area (EEA), our business profile matches the assumptions of the standard formula better than in the reinsurance segment. Nevertheless, the internal model also provides a more appropriate view of the risks for Munich Re in this segment.

Life underwriting risk

The life reinsurance model simulates the deviations of projected net cash flows from the best estimate on the basis of stochastically varying biometric and lapse risk drivers. The value at risk of 99.5% over a one-year period is derived using the linear regression finance approach (LRFA). Each risk driver comprises a process, basis, trend and calamity risk component. The standard formula is less sophisticated, with each biometric risk driver being represented by only one deterministic scenario, which is generated by level stress on the best-estimate assumptions.

Where possible, the parameters of the Life Re module of the internal model are estimated from historical data. The mortality trend risk parameters are estimated based on historic population mortality rates. Basis risk is calibrated such that the model reproduces the standard deviation of historical operating assumption change rates. The stress parameters used for life primary insurance SCR calculations are derived from application of the Life Re model to ERGO portfolio data sets. This is carried out by means of stress scenarios on the basis of stochastic corporate models.

The pandemic model in the internal model explicitly contains an allowance for the portfolio's age distribution covered and its underlying base mortality.

Health underwriting risk

For NSLT (not similar to life techniques) health business, premium and reserve risk is calculated similar to the non-life underwriting risk in the standard formula (loading factors). Overall, reinsurance business is NSLT. Therefore, non-life insurance techniques are used to calculate the economic risk capital.

In primary insurance, health insurance using similar to life techniques (SLT health business) is handled similarly to life primary insurance business. Account is taken of the fact that in the health insurance segment, premiums or benefits may be adjusted after a certain period of time.

Non-life underwriting risk

In the standard formula, the premium and reserve risk is determined using loading factors applied to premium measures and technical provisions. In the internal model, premium and reserve risk is measured incorporating historical loss experience and loss development patterns, at the level of a Munich Re risk-specific segmentation.

For catastrophe risk, the standard formula distinguishes between EEA exposures (higher granularity of input data) and non-EEA exposures (more simplistic approach). In the internal model, the risk from natural catastrophes – one of the biggest risks on Munich Re's balance sheet – is modelled using a stochastic and risk-sensitive approach which captures key accumulation risks in all geographical locations. The same holds true for man-made catastrophe accumulations.

For both catastrophe and non-catastrophe risks, the geographical diversification inherent in Munich Re's global portfolio is only partially recognised in the standard formula.

Market risk

The calculation of market risk figures is based on risk drivers that describe the change in value of financial instruments.

The calibration of the scenarios describing the possible future realisation of these risk drivers is based on long-term historical data (over-the-cycle calibration). A comparison of the risk drivers used within the internal model with the standard formula approach shows that the granularity of the internal model (with more than 500 distinct risk drivers) is far more elaborate than the standard formula approach. In addition, the internal model captures specific risk drivers that are not accounted for in the standard formula, namely spreads on sovereign bonds, inflation expectations, and implied volatilities on equity and interest rates.

In most relevant cases, there is no significant difference between the corresponding quantiles of the scenarios and the shocks of the standard formula.

Credit risk

The counterparty default risk in the standard formula only captures the risk of default for specific assets (namely those that are not covered by the spread risk module in the market risk calculation). By contrast, the credit risk figure under the internal model takes account of all items involving credit risk. Besides fixed interest investments, this includes deposits with ceding institutions, reinsurance recoverables, receivables, counterparty risk on derivatives, cash, and guarantees.

In addition to losses from defaults, the internal model covers potential losses from rating downgrades.

Operational risk

Under the standard formula, the operational risk (OpRisk) SCR is determined using a simplistic factor-based approach as a function of premiums, technical provisions and the basic SCR. Under the internal model, individual OpRisk scenarios are determined which take into account information from relevant experts and insights from the internal control system.

E 4.4 Risk measures and time period used in the internal model

The risk measures and time period used in the internal model for purposes of calculating the SCR are compliant with the requirements of Article 101(3) of Directive 2009/138/EC.

The confidence level used for the SCR is the value-at-risk measure on the 99.5% quantile.

E 4.5 Data used in the internal model

A common data policy has been established for Munich Re that sets Group-wide data quality standards. An individual data directory is compiled for each solo undertaking in the Group. This provides justification that the calculation of the regulatory capital according to the internal model is based on data of sufficient quality.

When using the term data, we refer to the numerical, statistical or classification information, but not qualitative information. This also applies to information used to develop model assumptions. The assumptions themselves are not regarded as data.

A specific Solvency II requirement is the compilation of a data directory. It comprises all data used in the internal model, specifying its source, characteristics and usage. Responsibility for the data directory's input and maintenance lies with the respective process owners.

In accordance with Solvency II requirements, the quality of data has to meet the criteria of accuracy, completeness and appropriateness.

The interpretation of the three data quality criteria is defined at a very high level, and is applicable to all areas where the assessment of the data quality is required. The data used in the respective areas is highly complex and diverse, and so the principle of proportionality is naturally important with the principles-based approach. Applying the principle of proportionality when considering data quality means that the requirements should be seen in relation to the intended purpose of the analysis or assessment. For portfolios where underlying risks are considered simple in terms of nature, scale and complexity, "appropriate" is interpreted differently than in a situation where the risks are complex. This means that we proceed on the assumption that less detailed data is required for the assessment of more simple risks.

While the assessment of the last two criteria (completeness and appropriateness) should be considered at a higher level, accuracy is assessed at a more granular level.

E 5 Non-compliance with the minimum capital requirement and non-compliance with the solvency capital requirement

Munich Re had adequate own funds at all times during the reporting period to cover MCR and SCR.

E 6 Any other information

We do not have any other material information about Munich Re's capital management.



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Z Annex

S.02.01.02

Balance sheet

€m	Solvency II value
Assets	
Intangible assets	0
Deferred tax assets	8,628
Pension benefit surplus	276
Property, plant & equipment held for own use	3,021
Investments (other than assets held for index-linked and unit-linked contracts)	221,064
Property (other than for own use)	5,346
Holdings in related undertakings, including participations	47,463
Equities	1,660
Equities - listed	1,070
Equities - unlisted	590
Bonds	157,651
Government Bonds	80,275
Corporate Bonds	65,121
Structured notes	8,864
Collateralised securities	3,392
Collective Investments Undertakings	3,851
Derivatives	1,639
Deposits other than cash equivalents	2,569
Other investments	885
Assets held for index-linked and unit-linked contracts	8,354
Loans and mortgages	8,215
Loans on policies	461
Loans and mortgages to individuals	2,707
Other loans and mortgages	5,047
Reinsurance recoverables from:	3,318
Non-life and health similar to non-life	2,030
Non-life excluding health	1,831
Health similar to non-life	199
Life and health similar to life, excluding health and index-linked and unit-linked	1,288
Health similar to life	303
Life excluding health and index-linked and unit-linked	985
Life index-linked and unit-linked	0
Deposits to cedants	7,161
Insurance and intermediaries receivables	3,848
Reinsurance receivables	286
Receivables (trade, not insurance)	2,293
Own shares (held directly)	746
Amounts due in respect of own fund items or initial fund called up but not yet paid in	0
Cash and cash equivalents	2,220
Any other assets, not elsewhere shown	497
Total assets	269,927

Balance sheet

→ €m	Solvency II value
Liabilities	
Technical provisions – non-life	55,588
Technical provisions – non-life (excluding health)	50,916
TP calculated as a whole	0
Best Estimate	49,470
Risk margin	1,446
Technical provisions – health (similar to non-life)	4,672
TP calculated as a whole	0
Best Estimate	4,546
Risk margin	126
Technical provisions – life (excluding index-linked and unit-linked)	124,738
Technical provisions – health (similar to life)	55,712
TP calculated as a whole	0
Best Estimate	52,248
Risk margin	3,465
Technical provisions – life (excluding health and index-linked and unit-linked)	69,025
TP calculated as a whole	0
Best Estimate	64,199
Risk margin	4,826
Technical provisions – index-linked and unit-linked	9,209
TP calculated as a whole	529
Best Estimate	8,511
Risk margin	169
Contingent liabilities	8
Provisions other than technical provisions	1,677
Pension benefit obligations	2,978
Deposits from reinsurers	890
Deferred tax liabilities	14,927
Derivatives	621
Debts owed to credit institutions	168
Financial liabilities other than debts owed to credit institutions	830
Insurance & intermediaries payables	3,012
Reinsurance payables	129
Payables (trade, not insurance)	5,267
Subordinated liabilities	4,902
Subordinated liabilities not in BOF	149
Subordinated liabilities in BOF	4,753
Any other liabilities, not elsewhere shown	43
Total liabilities	224,987
Excess of assets over liabilities	44,939

S.05.01.02

Premiums, claims and expenses by line of business

€m	Medical expense insurance	Income protection insurance	Workers' compensa- tion insurance	Motor vehicle liability insurance	Other motor insurance	Marine, aviation and transport insurance	Fire and other damage to property insurance
Premiums written							
Gross – Direct Business	1,426	864	14	1,879	1,129	762	3,117
Gross – Proportional reinsurance accepted	3,309	155	61	1,420	904	526	4,430
Gross – Non-proportional reinsurance accepted							
Reinsurers' share	143	39	3	125	73	114	501
Net	4,592	980	73	3,173	1,961	1,174	7,046
Premiums earned							
Gross – Direct Business	1,422	851	17	1,777	1,087	844	3,177
Gross – Proportional reinsurance accepted	3,258	146	52	1,366	906	545	4,416
Gross – Non-proportional reinsurance accepted							
Reinsurers' share	148	34	3	121	68	124	539
Net	4,531	962	66	3,022	1,924	1,265	7,054
Claims incurred							
Gross – Direct Business	1,060	280	19	1,275	726	472	1,598
Gross – Proportional reinsurance accepted	2,710	79	39	1,116	578	359	2,461
Gross – Non-proportional reinsurance accepted							
Reinsurers' share	55	10	1	68	42	94	246
Net	3,716	349	57	2,323	1,263	737	3,812
Changes in other technical provisions							
Gross – Direct Business	15	6	0	0	-5	1	-10
Gross – Proportional reinsurance accepted	13	0	0	0	0	10	0
Gross – Non-proportional reinsurance accepted							
Reinsurers' share	7	0	0	0	0	0	1
Net	21	6	0	0	-4	10	-11
Expenses incurred	818	431	19	943	709	461	2,854
Other expenses							
Total expenses							

Line of Business for: non-life insurance and reinsurance obligations (direct business and accepted proportional reinsurance)						Line of business for: accepted non-proportional reinsurance				Total
General liability insurance	Credit and suretyship insurance	Legal expenses insurance	Assistance	Miscellaneous financial loss	Health	Casualty	Marine, aviation, transport	Property		
1,285	67	994	67	479					12,083	
1,850	532	34	1	222					13,444	
153	27	101	7	87	0	1	3	183	1,560	
2,982	572	927	60	614	162	674	153	2,016	27,159	
1,248	70	1,020	61	538					12,110	
1,805	517	33	1	202					13,246	
157	25	101	5	87	0	1	3	181	1,598	
2,896	561	952	57	654	162	681	156	2,033	26,976	
901	20	410	23	204					6,990	
1,074	372	14	2	78					8,882	
114	14	59	3	39	2	-11	3	-49	690	
1,861	378	365	22	243	145	484	65	1,099	16,919	
1	0	-2	0	-1					5	
0	1	0	0	0					24	
0	0	0	0	0	0	0	0	0	7	
1	1	-2	0	0	2	0	0	0	24	
1,163	216	627	31	370	37	209	48	451	9,385	
									37	
									9,422	

Premiums, claims and expenses by line of business

€m	Line of Business for: life insurance obligations					
	Health insurance	Insurance with profit participation	Index-linked and unit-linked insurance	Other life insurance	Annuities stemming from non-life insurance contracts and relating to	
					Health insurance obligations	Other insurance obligations*
Premiums written						
Gross	5,620	3,442	461	200	0	0
Reinsurers' share	4	153	0	6	0	0
Net	5,616	3,289	461	194	0	0
Premiums earned						
Gross	5,642	3,443	461	200	0	0
Reinsurers' share	4	153	0	6	0	0
Net	5,638	3,290	461	194	0	0
Claims incurred						
Gross	4,044	5,601	278	87	0	1
Reinsurers' share	8	93	0	7	0	2
Net	4,036	5,508	278	80	0	-1
Changes in other technical provisions						
Gross	-491	1,911	-1,103	3	0	0
Reinsurers' share	0	-39	0	0	0	0
Net	-491	1,950	-1,103	4	0	0
Expenses incurred	965	893	184	87	0	0
Other expenses						
Total expenses						

* With the exception of health insurance obligations.

Premiums, claims and expenses by line of business

→	Life reinsurance obligations		Total
	Health reinsurance	Life reinsurance	
€m			
Premiums written			
Gross	2,849	7,359	19,930
Reinsurers' share	131	204	498
Net	2,717	7,155	19,433
Premiums earned			
Gross	2,848	7,325	19,918
Reinsurers' share	131	204	498
Net	2,717	7,120	19,420
Claims incurred			
Gross	1,939	5,919	17,870
Reinsurers' share	27	234	370
Net	1,912	5,686	17,499
Changes in other technical provisions			
Gross	258	3	582
Reinsurers' share	44	-72	-67
Net	213	76	649
Expenses incurred	522	1,069	3,721
Other expenses			26
Total expenses			3,747

S.05.02.01

Premiums, claims and expenses by country

€m	Top 5 countries (by amount of gross premiums written) - non-life obligations						Total - Top 5 and home country
	Home Country	USA	United Kingdom	Canada	China	Spain	
Premiums written							
Gross - Direct Business	3,376	2,589	2,239	188	1	631	9,024
Gross - Proportional reinsurance accepted	503	3,532	1,418	2,121	1,384	407	9,365
Gross - Non-proportional reinsurance accepted	127	987	400	93	15	72	1,695
Reinsurers' share	79	387	299	9	0	7	782
Net	3,926	6,722	3,758	2,394	1,399	1,102	19,302
Premiums earned							
Gross - Direct Business	3,380	2,699	2,214	190	1	629	9,112
Gross - Proportional reinsurance accepted	515	3,441	1,429	2,149	1,320	409	9,263
Gross - Non-proportional reinsurance accepted	132	997	403	94	14	74	1,714
Reinsurers' share	78	421	310	12	0	7	828
Net	3,948	6,717	3,736	2,420	1,334	1,105	19,260
Claims incurred							
Gross - Direct Business	1,926	1,561	1,315	130	0	467	5,399
Gross - Proportional reinsurance accepted	341	1,841	1,032	1,747	976	235	6,172
Gross - Non-proportional reinsurance accepted	2	590	254	108	24	25	1,003
Reinsurers' share	34	183	206	2	0	2	427
Net	2,235	3,809	2,394	1,984	1,000	724	12,147
Changes in other technical provisions							
Gross - Direct Business	9	-11	8	0	0	0	6
Gross - Proportional reinsurance accepted	10	4				0	14
Gross - Non-proportional reinsurance accepted	0	2					
Reinsurers' share	6	8	-3				
Net	14	-12	11	0	0	0	12
Expenses incurred	2,872	2,453	1,149	132	420	254	7,280
Other expenses							18
Total expenses							7,297

Premiums, claims and expenses by country

Top 5 countries (by amount of gross premiums written) - life obligations							
€m	Home Country	Canada	USA	United Kingdom	Australia	Belgium	Total - Top 5 and home country
Premiums written							
Gross	8,691	2,996	2,738	1,144	712	596	16,877
Reinsurers' share	1	0	228	1	0	134	364
Net	8,690	2,996	2,509	1,143	712	462	16,513
Premiums earned							
Gross	8,691	2,996	2,738	1,141	712	618	16,895
Reinsurers' share	1	0	228	1	0	134	364
Net	8,690	2,996	2,510	1,140	712	484	16,531
Claims incurred							
Gross	9,270	2,154	2,553	975	550	361	15,863
Reinsurers' share	0	0	105	1	1	84	191
Net	9,269	2,154	2,448	975	550	276	15,672
Changes in other technical provisions							
Gross	413	0	-56	53	58	24	493
Reinsurers' share	-2	0	43	0	0	-39	2
Net	416	0	-99	53	58	63	492
Expenses incurred	2,717	0	-10	59	24	154	2,944
Other expenses							1
Total expenses							2,945

S.22.01.22

Impact of long term guarantees and transitional measures

€m	Amount with Long Term Guarantee measures and transitionals	Impact of transitional on technical provisions	Impact of transitional on interest rate	Impact of volatility adjustment set to zero	Impact of matching adjustment set to zero
Technical provisions	189,535	11,073	0	0	0
Basic own funds	47,647	-7,530	0	0	0
Eligible own funds to meet Solvency Capital Requirement	48,197	-7,530	0	0	0
Solvency Capital Requirement	15,256	0	0	0	0

S.23.01.22

Own funds

€m	Total	Tier 1 - unrestricted	Tier 1 - restricted	Tier 2	Tier 3
Basic own funds before deduction for participations in other financial sector					
Ordinary share capital (gross of own shares)	588	588		0	
Non-available called but not paid in ordinary share capital at group level	0	0		0	
Share premium account related to ordinary share capital	6,845	6,845		0	
Initial funds, members' contributions or the equivalent basic own - fund item for mutual and mutual-type undertakings	0	0		0	
Subordinated mutual member accounts	0		0	0	0
Non-available subordinated mutual member accounts at group level	0		0	0	0
Surplus funds	2,295	2,295			
Non-available surplus funds at group level	82	82			
Preference shares	0		0	0	0
Non-available preference shares at group level	0		0	0	0
Share premium account related to preference shares	0		0	0	0
Non-available share premium account related to preference shares at group level	0		0	0	0
Reconciliation reserve	33,154	33,154			
Subordinated liabilities	4,753		1,400	3,307	47
Non-available subordinated liabilities at group level	47		0	0	47
An amount equal to the value of net deferred tax assets	748				748
The amount equal to the value of net deferred tax assets not available at the group level	92				92
Other items approved by supervisory authority as basic own funds not specified above	0	0	0	0	0
Non available own funds related to other own funds items approved by supervisory authority	0	0	0	0	0
Minority interests (if not reported as part of a specific own fund item)	227	227	0	0	0
Non-available minority interests at group level	192	192	0	0	0
Own funds from the financial statements that should not be represented by the reconciliation reserve and do not meet the criteria to be classified as Solvency II own funds					
Own funds from the financial statements that should not be represented by the reconciliation reserve and do not meet the criteria to be classified as Solvency II own funds	0	0			
Deductions					
Deductions for participations in other financial undertakings, including non-regulated undertakings carrying out financial activities	551	551	0	0	
Whereof deducted according to art 228 of the Directive 2009/138/EC	0	0	0	0	0
Deductions for participations where there is non-availability of information (Article 229)	0	0	0	0	0
Deduction for participations included by using D&A when a combination of methods is used	0	0	0	0	0
Total of non-available own fund items	413	274	0	0	139
Total deductions	964	825	0	0	139
Total basic own funds after deductions	47,647	42,284	1,400	3,307	655

Own funds

→ €m	Total	Tier 1 - unrestricted	Tier 1 - restricted	Tier 2	Tier 3
Ancillary own funds					
Unpaid and uncalled ordinary share capital callable on demand	0			0	
Unpaid and uncalled initial funds, members' contributions or the equivalent basic own fund item for mutual and mutual - type undertakings, callable on demand	0			0	
Unpaid and uncalled preference shares callable on demand	0			0	0
A legally binding commitment to subscribe and pay for subordinated liabilities on demand	0			0	0
Letters of credit and guarantees under Article 96(2) of the Directive 2009/138/EC	0				
Letters of credit and guarantees other than under Article 96(2) of the Directive 2009/138/EC	0			0	
Supplementary members calls under first subparagraph of Article 96(3) of the Directive 2009/138/EC	0			0	
Supplementary members calls - other than under first subparagraph of Article 96(3) of the Directive 2009/138/EC	0			0	0
Non available ancillary own funds at group level	0			0	0
Other ancillary own funds	0			0	0
Total ancillary own funds	0			0	0
Own funds of other financial sectors					
Credit institutions, investment firms, financial institutions, alternative investment fund manager, financial institutions					
	367	367	0	0	
Institutions for occupational retirement provision	182	182	0	0	0
Non regulated entities carrying out financial activities	2	2	0	0	
Total own funds of other financial sectors	551	551	0	0	
Own funds when using the D&A, exclusively or in combination of method 1					
Own funds aggregated when using the D&A and combination of method	0	0	0	0	0
Own funds aggregated when using the D&A and a combination of method net of IGT	0	0	0	0	0
Total available own funds to meet the consolidated group SCR (excluding own funds from other financial sector and from the undertakings included via D&A)	47,647	42,284	1,400	3,307	655
Total available own funds to meet the minimum consolidated group SCR	46,991	42,284	1,400	3,307	
Total eligible own funds to meet the consolidated group SCR (excluding own funds from other financial sector and from the undertakings included via D&A)	47,647	42,284	1,400	3,307	655
Total eligible own funds to meet the minimum consolidated group SCR	46,153	42,284	1,400	2,469	

Own funds

→ €m	Total	Tier 1 - unrestricted	Tier 1 - restricted	Tier 2	Tier 3
Minimum consolidated Group SCR	12,345				
Ratio of Eligible own funds to Minimum Consolidated Group SCR	374%				
Total eligible own funds to meet the group SCR (including own funds from other financial sector and from the undertakings included via D&A)	48,197	42,835	1,400	3,307	655
Group SCR	15,256				
Ratio of Eligible own funds to group SCR including other financial sectors and the undertakings included via D&A	316%				

Reconciliation reserve

€m	Total
Excess of assets over liabilities	44,939
Own shares (held directly and indirectly)	746
Forseeable dividends, distributions and charges	337
Other basic own fund items	10,703
Adjustment for restricted own fund items in respect of matching adjustment portfolios and ring fenced funds	0
Other non available own funds	0
Reconciliation reserve before deduction for participations in other financial sector	33,154
Expected profits	
Expected profits included in future premiums (EPIFP) - Life business	12,105
Expected profits included in future premiums (EPIFP) - Non- life business	898
Total EPIFP	13,004

S.25.03.22

Solvency capital requirement – for groups on full internal models

€m	Calculation of solvency capital requirement
Unique number of component	
201 – Property-casualty	6,759
202 – Life and health	5,199
203 – Market	9,895
204 – Credit	4,026
205 – Operational risk	1,391
207 – Loss-absorbing capacity of deferred taxes	-2,615
208 – Other risk	594
Calculation of solvency capital requirement	
Total undiversified components	25,248
Diversification	-9,992
Capital requirement for business operated in accordance with Art. 4 of Directive 2003/41/EC	0
Solvency capital requirement excluding capital add-on	15,256
Capital add-ons already set	0
Solvency capital requirement	15,256
Other information on SCR	
Amount/estimate of the overall loss-absorbing capacity of technical provisions	-2,931
Amount/estimate of the overall loss-absorbing capacity of deferred taxes	-2,615
Total amount of notional solvency capital requirements for remaining part	0
Total amount of notional solvency capital requirements for ring-fenced funds (other than those related to business operated in accordance with Art. 4 of Directive 2003/41/EC (transitional))	0
Total amount of notional solvency capital requirement for matching adjustment portfolios	0
Diversification effects due to RFF nSCR aggregation for Article 304	0
Minimum consolidated Group solvency capital requirement	12,345
Information on other entities	
Capital requirement for other financial sectors (non-insurance capital requirements)	208
Capital requirement for other financial sectors (non-insurance capital requirements) – Credit institutions, investment firms and financial institutions, alternative investment fund managers, UCITS management companies	82
Capital requirement for other financial sectors (non-insurance capital requirements) – Institutions for occupational retirement provisions	126
Capital requirement for other financial sectors (non-insurance capital requirements) – Capital requirement for non-regulated entities carrying out financial activities	0
Capital requirement for non-controlled participation requirements	386
Capital requirement for residual undertakings	0

S.32.01.22

Undertakings in the scope of the group

Country	Identification code of the undertaking	Type of code of the ID of the undertaking	Legal name of undertaking	Type of undertaking ¹	Legal form	Category (mutual/non-mutual) ²
US	LEI/549300N4FZ45G44J6793	LEI	13th & F Associates Limited Partnership	10	Limited partnership	2
FR	LEI/969500SH0AJXHL77L25	LEI	40 Courcelles	10	SAS societe par act.	2
ES	LEI/959800BL7UATAJDXPA14	LEI	Adelfa Servicios a Instalaciones Fotovoltaicas S.L.	10	Sociedad Limitada	2
BE	LEI/5299008L27XG0I7OKA94	LEI	ADVIA NV	10	Naamloze Vennootscha	2
DE	LEI/529900AKQK4BF4C99681	LEI	AEVG 2004 GmbH, Frankfurt	10	GmbH	2
IT	LEI/815600F7AD0D828FD829	LEI	Agricultural Management Services S.r.l.	10	Soc.a Responsab. Lim.	2
GR	SC/LEI/529900MUF4C20K50JS49/GR/60162	Specific	AGROTIKI Insurance S.A.	4	Anonymos Eteria	2
ES	LEI/529900QKD0X56D7HU745	LEI	ALEAMA 150015, S.L.	10	Sociedad Limitada	2
DE	LEI/5299004UG0606GMBAT31	LEI	ALICE GmbH, Düsseldorf	10	GmbH	2
DE	LEI/529900B6SM4J1BYD0X71	LEI	Allianz Pegasus Fonds	99	Segregated fund	2
DE	LEI/5299008IGVZJ5TCIEO98	LEI	ALLYSCA Assistance GmbH	10	GmbH	2
US	LEI/549300YWXT94H07IAR29	LEI	American Alternative Insurance Corporation	2	Business corporation	2
US	LEI/5493002MMIK8WTZ67713	LEI	American Family Home Insurance Company	2	Business corporation	2
US	LEI/549300J6XWKWQ9EI3J85	LEI	American Modern Home Insurance Company	2	Business corporation	2
US	LEI/549300XRKDF37YCUX16	LEI	American Modern Home Service Company	10	Business corporation	2
US	LEI/549300SH0I83V0VXSB37	LEI	American Modern Insurance Company of Florida	2	Business corporation	2
US	LEI/549300FMGQAYYSP27L13	LEI	American Modern Insurance Group	5	Business corporation	2
US	LEI/549300UDGP9BINTJ5114	LEI	American Modern Lloyds Insurance Company	2	Business corporation	2
US	LEI/549300KEIVJ16HFQHC55	LEI	American Modern Property & Casualty Insurance Company	2	Business corporation	2
US	LEI/549300277CH4PAIVNL14	LEI	American Modern Select Insurance Company	2	Business corporation	2
US	LEI/549300UVCKNIZQCQBN25	LEI	American Modern Surplus Lines Insurance Company	2	Business corporation	2
US	LEI/549300NT0KLTG662VB79	LEI	American Southern Home Insurance Company	2	Business corporation	2
US	LEI/549300ZW3600ACLVVJ28	LEI	American Western Home Insurance Company	2	Business corporation	2
GB	LEI/213800S7NNJW5XXBF959	LEI	Amicus Legal Ltd.	10	Private limited company	2
GB	LEI/213800BYK9U3Q9XN5L68	LEI	Amicus Ltd.	10	Private limited company	2
DE	LEI/529900MDR1P3VPDC0869	LEI	ANOVA GmbH	10	GmbH	2
IN	LEI/3358001SWQSDCNO5BD43	LEI	Apollo Munich Health Insurance Co. Ltd., India	2	Private Limited	2
ES	LEI/5299009BUBQNCETSE853	LEI	ARRIDABRA 130013, S.L.	10	Sociedad Limitada	2

	Supervisory Authority	% capital share	% used for the establishment of consolidated accounts	% voting rights	Other criteria	Criteria of influence		Inclusion in scope of Group supervision		Group solvency calculation
						Level of influence	Proportional share used for Group solvency calculation	Yes/no	Date of decision if Art. 214 is applied	Method used and, under Method 1, treatment of the undertaking ³
		98.0	98.0	100.0		Dominant	100.0	yes		1
		100.0	100.0	100.0		Dominant	100.0	yes		1
		100.0	100.0	100.0		Dominant	100.0	yes		1
		80.0	35.0	80.0		Dominant	35.0	yes		10
		0.0	0.0	0.0		Dominant	0.0	yes		3
		33.3	33.3	33.3		Significant	33.3	yes		10
	Hellenic Capital Market Commission	100.0	100.0	100.0		Dominant	100.0	yes		1
		100.0	75.1	100.0		Dominant	75.1	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		1
		46.0	46.0	0.0		Significant	46.0	yes		3
		100.0	100.0	100.0		Dominant	100.0	yes		3
	Insurance Department of the State of Delaware	100.0	100.0	100.0		Dominant	100	yes		1
	State of Florida	100.0	100.0	100.0		Dominant	100	yes		1
	State of Ohio	100.0	100.0	100.0		Dominant	100	yes		1
		100.0	100.0	100.0		Dominant	100	yes		3
	State of Florida	100.0	100.0	100.0		Dominant	100	yes		1
		100.0	100.0	100.0		Dominant	100	yes		1
	State of Texas	100.0	100.0	100.0		Dominant	100	yes		1
	State of Ohio	100.0	100.0	100.0		Dominant	100	yes		1
	State of Ohio	100.0	100.0	100.0		Dominant	100	yes		1
	State of Ohio	100.0	100.0	100.0		Dominant	100	yes		1
	State of Florida	100.0	100.0	100.0		Dominant	100	yes		1
	State of Oklahoma	100.0	100.0	100.0		Dominant	100	yes		1
		100.0	100.0	100.0		Dominant	100.0	yes		3
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		10
	IRDA Insurance Regulatory and Development Authority (no SII)	48.7	48.7	48.7		Significant	48.7	yes		3
		100.0	75.1	100.0		Dominant	75.1	yes		10

Undertakings in the scope of the group

Country	Identification code of the undertaking	Type of code of the ID of the undertaking	Legal name of undertaking	Type of undertaking ¹	Legal form	Category (mutual/non-mutual) ²
DE	LEI/529900D52G52D0MJRJ25	LEI	ARTES Assekuranzservice GmbH	10	GmbH	2
DE	LEI/529900ANQMOQ50UNSA56	LEI	ArztPartner almeda AG, Munich	10	Aktiengesellschaft	2
DE	LEI/529900HEPKGGIJCQBQ731	LEI	Assistance Partner GmbH	10	GmbH & Co. KG	2
DE	SC/LEI/529900MUF4C20K50JS49/DE/10380	Specific	ATU Landbau GmbH	10	GmbH & Co. KG	2
IN	LEI/529900UQM15SB0SIIT58	LEI	Avantha ERGO Life Insurance Company	4	Private Limited	2
DE	LEI/5299003TYG3FQ3T7G881	LEI	avanturo GmbH	10	GmbH	2
NL	SC/LEI/529900MUF4C20K50JS49/NL/52072	Specific	B&D Business Solutions B.V.	10	Besloten Vennootscha	2
ES	LEI/5299005KHQ4XYL81CV45	LEI	BADOZOC 1001, S.L.	10	Sociedad Limitada	2
GB	LEI/2138005PU5PN6ZZPC440	LEI	Bagmoor Holdings Limited	10	Private limited company	2
GB	LEI/213800CH2LMPMH5FX706	LEI	Bagmoor Wind Limited	10	Private limited company	2
AT	LEI/529900CTWT6788GFR960	LEI	Bank Austria Creditanstalt Versicherungsdienst GmbH	10	Gesellschaft mbH	2
ES	LEI/529900X8ZUGJSGLCH258	LEI	BAQUEDA 7007, S.L.	10	Sociedad Limitada	2
GB	LEI/213800CGHZU8VMQQP627	LEI	Beaufort Dedicated No.1 Ltd	10	Private limited company	2
GB	LEI/213800QX5PFQY5U1N812	LEI	Beaufort Dedicated No.2 Ltd	10	Private limited company	2
GB	LEI/2138004D7D9KJXGGD736	LEI	Beaufort Dedicated No.3 Ltd	10	Private limited company	2
GB	LEI/213800QW9EKZC4UAX502	LEI	Beaufort Dedicated No.4 Ltd	10	Private limited company	2
GB	LEI/213800ZNW6CUERWIYD59	LEI	Beaufort Dedicated No.5 Ltd	10	Private limited company	2
GB	LEI/2138005M8N26853ANX40	LEI	Beaufort Dedicated No.6 Ltd	10	Private limited company	2
GB	LEI/213800TI7Q6G7WDIU437	LEI	Beaufort Underwriting Agency Limited	10	Private limited company	2
GB	SC/LEI/529900MUF4C20K50JS49/GB/10160	Specific	Beaufort Underwriting Services Limited	10	Private limited company	2
BM	LEI/213800VOVQKXA9FFOO95	LEI	Bell & Clements (Bermuda) Ltd., Hamilton	99	Private limited company	2
GB	LEI/21380064S1INI3RCDC83	LEI	Bell & Clements (London) Ltd, London	10	Private limited company	2
US	LEI/21380079LOGIMVQET963	LEI	Bell & Clements (USA) Inc, Reston	99	Business corporation	2
US	LEI/213800KQKD7QER8LLA11	LEI	Bell & Clements Inc, Reston	10	Business corporation	2
GB	LEI/213800TLP CZDH5RFHC04	LEI	Bell & Clements Ltd, London	10	Private limited company	2
DE	LEI/529900X1OWI7LBIDIK24	LEI	BHS tabletop	10	Aktiengesellschaft	2
ES	LEI/529900QK692B8YLFQ29	LEI	BOBASBE 6006, S.L.	10	Sociedad Limitada	2
NL	LEI/529900KLYASJG0CVX332	LEI	Bos Incasso	10	Besloten Vennootscha	2
ES	LEI/52990033S2VUNITD3Z85	LEI	BOTEDAZO 8008, S.L.	10	Sociedad Limitada	2
AU	SC/LEI/529900MUF4C20K50JS49/AU/24013	Specific	Calibre Commercial Insurance Pty Ltd	10	Proprietary Ltd Comp	2

	Supervisory Authority	% capital share	% used for the establishment of consolidated accounts	% voting rights	Other criteria	Criteria of influence		Inclusion in scope of Group supervision		Group solvency calculation
						Level of influence	Proportional share used for Group solvency calculation	Yes/no	Date of decision if Art. 214 is applied	Method used and, under Method 1, treatment of the undertaking ³
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		3
		21.7	21.7	21.7		Significant	21.7	yes		10
		94.9	94.9	94.9		Dominant	100.0	yes		1
		26.0	26.0	26.0		Significant	26.0	yes		3
		100.0	100.0	100.0		Dominant	100.0	yes		3
		100.0	51.0	100.0		Dominant	51.0	yes		10
		100.0	75.1	100.0		Dominant	75.1	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		1
		100.0	100.0	100.0		Dominant	100.0	yes		1
		100.0	98.8	100.0		Dominant	98.8	yes		10
		100.0	75.1	100.0		Dominant	75.1	yes		10
	Prudential Regulatory Authority (PRA)	100.0	100.0	100.0		Dominant	100.0	yes		3
	Prudential Regulatory Authority (PRA)	100.0	100.0	100.0		Dominant	100.0	yes		1
	Prudential Regulatory Authority (PRA)	100.0	100.0	100.0		Dominant	100.0	yes		10
	Prudential Regulatory Authority (PRA)	100.0	100.0	100.0		Dominant	100.0	yes		10
	Prudential Regulatory Authority (PRA)	100.0	100.0	100.0		Dominant	100.0	yes		3
	Prudential Regulatory Authority (PRA)	100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		1
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		3
		100.0	100.0	100.0		Dominant	100.0	yes		3
		100.0	100.0	100.0		Dominant	100.0	yes		3
		28.9	28.9	28.9		Significant	28.9	yes		10
		100.0	75.1	100.0		Dominant	75.1	yes		10
		89.8	45.8	89.8		Dominant	100.0	yes		1
		100.0	75.1	100.0		Dominant	75.1	yes		10
		90.0	90.0	90.0		Dominant	90.0	yes		3

Undertakings in the scope of the group

Country	Identification code of the undertaking	Type of code of the ID of the undertaking	Legal name of undertaking	Type of undertaking ¹	Legal form	Category (mutual/non-mutual) ²
AU	LEI/261700F2BKM8WWRZ6J30	LEI	Calliden Insurance Pty Limited	2	Proprietary Ltd Comp	2
ES	LEI/529900NM5ZPDR6NO5G10	LEI	CALLOPIO 5005, S.L.	10	Sociedad Limitada	2
ES	LEI/529900Q442AA833QVP81	LEI	CAMCICHU 9009, S.L.	10	Sociedad Limitada	2
NL	LEI/529900REKS515FKVAT67	LEI	Cannock Chase B.V.	10	Besloten Vennootscha	2
NL	LEI/5299007301MV9W7YXP82	LEI	Cannock Chase Holding B.V.	10	Besloten Vennootscha	2
NL	LEI/5299005J8F59Y32PUF14	LEI	Cannock Chase Incasso II B.V.	10	Besloten Vennootscha	2
NL	LEI/529900BU28IPOFJVYF35	LEI	Cannock Chase Purchase B.V.	10	Besloten Vennootscha	2
NL	LEI/529900O9VMD9G8JEEF56	LEI	Cannock Connect Center B.V.	10	Besloten Vennootscha	2
US	SC/LEI/529900MUF4C20K50JS49/US/56086	Specific	Capital Dynamics Champion Ventures VI, L.P.	99	Limited partnership	2
DE	LEI/529900360ELYW55NSD04	LEI	CAPITAL PLAZA Holding GmbH	10	GmbH	2
ES	LEI/529900B9YUDSJQ4FGJ19	LEI	Caracuel Solar Catorce S.L.	10	Sociedad Limitada	2
ES	LEI/529900IXFVCB1S6WK676	LEI	Caracuel Solar Cinco	10	Sociedad Limitada	2
ES	LEI/529900WJ0Q0M51LTLO84	LEI	Caracuel Solar Cuatro	10	Sociedad Limitada	2
ES	LEI/529900CV561CG90MV288	LEI	Caracuel Solar Dieciocho	10	Sociedad Limitada	2
ES	LEI/5299000MLK9VGW57CV72	LEI	Caracuel Solar Dieciseis	10	Sociedad Limitada	2
ES	LEI/529900J8NUSY9UK5RB35	LEI	Caracuel Solar Diecisiete	10	Sociedad Limitada	2
ES	LEI/5299008XBYAWRO92Z885	LEI	Caracuel Solar Diez	10	Sociedad Limitada	2
ES	LEI/52990006VJ3X5CWIXE27	LEI	Caracuel Solar Doce	10	Sociedad Limitada	2
ES	LEI/5299007WZHSGJQ4KE448	LEI	Caracuel Solar Dos	10	Sociedad Limitada	2
ES	LEI/5299006VJ5O8424PCY56	LEI	Caracuel Solar Nueve	10	Sociedad Limitada	2
ES	LEI/529900D70ZFN4CAUKS47	LEI	Caracuel Solar Ocho	10	Sociedad Limitada	2
ES	LEI/5299000U9V4EQ00ZWE66	LEI	Caracuel Solar Once	10	Sociedad Limitada	2
ES	LEI/529900YQ7T69H967ZC43	LEI	Caracuel Solar Quince	10	Sociedad Limitada	2
ES	LEI/529900LUFLEQ45A3Q477	LEI	Caracuel Solar Seis	10	Sociedad Limitada	2
ES	LEI/52990086VYWI3KY03V98	LEI	Caracuel Solar Siete	10	Sociedad Limitada	2
ES	LEI/529900ZAVW8KZJ54VA75	LEI	Caracuel Solar Trece	10	Sociedad Limitada	2
ES	LEI/529900KP5LJLFHI16476	LEI	Caracuel Solar Tres	10	Sociedad Limitada	2
ES	LEI/5299009ZEYQ8JG942893	LEI	Caracuel Solar Uno	10	Sociedad Limitada	2
DE	LEI/5299005VXTHVWASMF326	LEI	carexpert Kfz-Sachverständigen GmbH	10	GmbH	2
US	SC/LEI/529900MUF4C20K50JS49/US/12795	Specific	CBRE Core Partners Parallel LP	10	Limited partnership	2
PL	LEI/259400R3WRBOV76F1409	LEI	Centrum Pomocy Osobom Poszkodowanym Sp. Z o.o.	10	SP.z.o.o.	2
DE	SC/LEI/529900MUF4C20K50JS49/DE/10373	Specific	Ceres Demetra GmbH	10	GmbH	2
DE	LEI/39120001R09MQ1URNK04	LEI	Comino Beteiligung GmbH	10	GmbH	2
FR	SC/LEI/529900MUF4C20K50JS49/FR/16007	Specific	Compagnie Européenne d'Assurances	10	Société anonyme	2
ES	SC/LEI/529900MUF4C20K50JS49/ES/10202	Specific	Consorcio Internacional de Aseguradores de Crédito	5	Sociedad anónima	2

Undertakings in the scope of the group

Country	Identification code of the undertaking	Type of code of the ID of the undertaking	Legal name of undertaking	Type of undertaking ¹	Legal form	Category (mutual/non-mutual) ²
DE	LEI/391200CCPAYQE6OTSL29	LEI	Consortia Versicherungs-Beteiligungsges.	5	GmbH	2
US	LEI/549300G9HIUZ50E53H77	LEI	Copper Leaf Research	10	Business corporation	2
AU	LEI/26170024S74LVA8GHA28	LEI	Corion Pty Limited	10	Proprietary Ltd Comp	2
GB	LEI/529900E7GJE2DNYTNQ65	LEI	Cornwall Power (Polmaugan) Limited	10	Private limited company	2
ES	LEI/529900IDZQ5VL4LQS183	LEI	COTATRILLO 100010	10	Sociedad Limitada	2
GB	LEI/213800144FS2X86NV219	LEI	Countryside Renewables	10	Private Company Limited	2
BE	LEI/5299008ZCPR9YDKM2049	LEI	D.A.S. Belgium	2	Société anonyme	2
GR	LEI/5299006RY4ESXQTQIF24	LEI	D.A.S. HELLAS Allgemeine Rechtsschutz	2	Anonymos Eteria	2
IT	LEI/8156009A1E48E2F6A547	LEI	D.A.S. Italy	2	Società per azioni	2
LU	LEI/222100Q7NF5QRN2KAR88	LEI	D.A.S. Luxemburg Allg. Rechtsschutz	2	Société anonyme	2
EE	LEI/5493001KTXHB5TRCIA71	LEI	D.A.S. Oigusabikulude Kindlustuse AS	2	Aktsiaselts	2
PL	LEI/529900L2AHAUE2CHYV74	LEI	D.A.S. Poland	2	Spółka akcyjna	2
PL	LEI/5299000B1I7SL89ZEU78	LEI	D.A.S. Prawo i Finanse Sp. z o.o.	10	SP.z.o.o.	2
AT	LEI/529900OWFVDB8HL4R597	LEI	D.A.S. Rechtsschutz AG, Vienna	2	Aktiengesellschaft	2
DE	LEI/529900R8LSJAGFV3Y282	LEI	D.A.S. Rechtsschutz Leistungs-GmbH	10	GmbH	2
ES	LEI/959800VP29N7HZJ1KD83	LEI	D.A.S. Spain	2	Sociedad anónima	2
GB	LEI/213800SGSZOHSKG9BQ92	LEI	D.A.S. UK Holdings	5	Private limited company	2
HU	LEI/529900O5HPVPPEUIC831	LEI	D.A.S. Hungary	2	Biz.részvénytársaság	2
PL	LEI/529900ZL6WMX9UXUVI64	LEI	D.A.S., Tomasz Niedzinski Kancelaria Prawna Sp. Komandytowa	10	Spolka Komandytowa	2
AE	SC/LEI/529900MUF4C20K50JS49/AE/10194	Specific	DAMAN - National Health	2	Public Limited by Sh	2
QA	SC/LEI/529900MUF4C20K50JS49/QA/10234	Specific	Daman Health Insurance - Qatar LLC	2	Limited Liability Co	2
US	SC/LEI/529900MUF4C20K50JS49/US/52108	Specific	DAS America Legal Protection Insurance Agency Ltd.	10	Limited partnership	2
GB	LEI/213800R8K1JS9F7O9Z25	LEI	DAS Assistance Limited	10	Private limited company	2
NL	LEI/529900E386ITCKE4IN16	LEI	DAS Financial Services B.V., Amsterdam	10	Besloten Vennootscha	2
NL	LEI/529900KXSUIYJXY4A182	LEI	DAS Holding N.V.	5	Naamloze Vennootscha	2

	Supervisory Authority	% capital share	% used for the establishment of consolidated accounts	% voting rights	Other criteria	Criteria of influence		Inclusion in scope of Group supervision		Group solvency calculation
						Level of influence	Proportional share used for Group solvency calculation	Yes/no	Date of decision if Art. 214 is applied	Method used and, under Method 1, treatment of the undertaking ³
		33.7	33.7	33.7		Significant	33.7	yes		3
		100.0	100.0	100.0		Dominant	100	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		3
		100.0	100.0	100.0		Dominant	100.0	yes		1
		100.0	75.1	100.0		Dominant	75.1	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		1
	Financial Services and Markets Authority, National Bank of Belgium	100.0	100.0	100.0		Dominant	100.0	yes		1
	"Department of Private Insurance Supervision" in Bank of Greece	100.0	100.0	100.0		Dominant	100.0	yes		1
	Instituto per la Vigilanza sulle Assicurazioni Private e di	50.0	50.0	50.0		Significant	50.0	yes		3
	Commission de surveillance du secteur financier, Commissaria	100.0	100.0	100.0		Dominant	100.0	yes		1
	Financial Supervision Authority (Finantsinspeksioon)	100.0	100.0	100.0		Dominant	100.0	yes		1
	Polish Financial Supervision Authority (KNF)	100.0	100.0	100.0		Dominant	100.0	yes		1
		100.0	100.0	100.0		Dominant	100.0	yes		10
	Finanzmarktaufsicht (FMA)	100.0	100.0	100.0		Dominant	100.0	yes		1
		100.0	100.0	100.0		Dominant	100.0	yes		10
	Direccion General de Seguros (DGS)	100.0	100.0	100.0		Dominant	100.0	yes		1
		100.0	100.0	100.0		Dominant	100.0	yes		1
	Hungarian Financial Supervisory Authority (HFSA)	100.0	100.0	100.0		Dominant	100.0	yes		1
		95.0	95.0	95.0		Dominant	95.0	yes		10
	Abu Dhabi Accountability Authority (ADAA)	20.0	20.0	20.0		Significant	20.0	yes		3
	Qatar Financial Center Authority	100.0	51.0	100.0		Dominant	51.0	yes		3
		100.0	100.0	100.0		Dominant	100	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		3
		51.0	26.0	51.0		Dominant	26.0	yes		10
		51.0	51.0	51.0		Dominant	100.0	yes		1

Undertakings in the scope of the group

Country	Identification code of the undertaking	Type of code of the ID of the undertaking	Legal name of undertaking	Type of undertaking ¹	Legal form	Category (mutual/non-mutual) ²
NL	LEI/5299004G0DL4JPXIM624	LEI	DAS Incasso Arnhem B.V.	10	Besloten Vennootscha	2
NL	LEI/5299001OG6JPJUD2FL05	LEI	DAS Incasso Den Bosch	10	Besloten Vennootscha	2
NL	LEI/529900QO9FJ96DGWHR51	LEI	DAS Incasso Rotterdam	10	Besloten Vennootscha	2
GB	SC/LEI/529900MUF4C20K50JS49/GB/52090	Specific	DAS Law Limited	10	Private limited company	2
GB	LEI/213800JP3DALOKFYGF63	LEI	DAS Legal Expenses	2	Private limited company	2
KR	LEI/529900U2KKAFZ9K3JU70	LEI	DAS Legal Expenses Insurance Korea	2	Company Limited	2
NL	SC/LEI/529900MUF4C20K50JS49/NL/52035	Specific	DAS Legal Finance B.V.	10	Besloten Vennootscha	2
CA	LEI/2138008ZLLILN468JI09	LEI	DAS Legal Protection Insurance Company Ltd., Toronto	2	Corporation	2
IE	SC/LEI/529900MUF4C20K50JS49/IE/52021	Specific	DAS Legal Protection Ireland	10	Private Limited Comp	2
NZ	SC/LEI/529900MUF4C20K50JS49/NZ/52043	Specific	DAS Legal Protection Limited, Christchurch	10	Private Comp.Ltd bSh	2
CA	SC/LEI/529900MUF4C20K50JS49/CA/52037	Specific	DAS Legal Protection Limited, Vancouver	10	Corporation	2
AU	SC/LEI/529900MUF4C20K50JS49/AU/52070	Specific	DAS Legal Protection Pty. Ltd.	10	Proprietary Ltd Comp	2
NL	LEI/529900RR7FZJBRYIN725	LEI	DAS Legal Services B.V.	10	Besloten Vennootscha	2
ES	LEI/959800KJF11BCCY0SY03	LEI	DAS Lex Assistance, S.L.	10	Sociedad Limitada	2
GB	LEI/213800GXIHWBV5WELF12	LEI	DAS MEDICAL ASSIST LIMITED	10	Private limited company	2
NL	LEI/724500FCYQ71PUHWNM13	LEI	DAS Netherlands	2	Naamloze Vennootscha	2
CH	LEI/529900V3ZIS3XPODXU82	LEI	DAS Rechtsschutz-Versicherungs-AG CH	2	Aktiengesellschaft	2
GB	LEI/213800ESOOCWUHNCD64	LEI	DAS Services Limited	10	Private limited company	2
LU	SC/LEI/529900MUF4C20K50JS49/LU/91155	Specific	DB Platinum IV SICAV I2D	99	Subfonds Inst.Fix.In	2
LU	SC/LEI/529900MUF4C20K50JS49/LU/91201	Specific	DB Platinum IV SICAV I4D	99	Fonds Public	2
LU	SC/LEI/529900MUF4C20K50JS49/LU/91216	Specific	DB Platinum IV SICAV I5D	99	Fonds Public	2
LU	SC/LEI/529900MUF4C20K50JS49/LU/91234	Specific	DB Platinum IV SICAV I6D	99	Fonds Public	2
LU	SC/LEI/529900MUF4C20K50JS49/LU/91240	Specific	DB Platinum IV SICAV I7D	99	Fonds Public	2
LU	SC/LEI/529900MUF4C20K50JS49/LU/91245	Specific	DB Platinum IV SICAV I8D	99	Fonds Public	2
DE	LEI/529900QWOC2PJX7RJV60	LEI	Deutsche Krankenversicherungs-AG	2	Aktiengesellschaft	2

	Supervisory Authority	% capital share	% used for the establishment of consolidated accounts	% voting rights	Other criteria	Criteria of influence		Inclusion in scope of Group supervision		Group solvency calculation
						Level of influence	Proportional share used for Group solvency calculation	Yes/no	Date of decision if Art. 214 is applied	Method used and, under Method 1, treatment of the undertaking ³
		100.0	43.8	100.0		Dominant	43.8	yes		10
		100.0	51.0	100.0		Dominant	51.0	yes		10
		100.0	51.0	100.0		Dominant	51.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		3
	Prudential Regulatory Authority (PRA)	100.0	100.0	100.0		Dominant	100.0	yes		1
	Financial Supervisory Service	100.0	100.0	100.0		Dominant	100.0	yes		1
		100.0	51.0	100.0		Dominant	100.0	yes		1
	Office of Superintendent of Financial Institutions (OSFI)	100.0	100.0	100.0		Dominant	100.0	yes		1
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	51.0	100.0		Dominant	51.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		3
	De Nederlandsche Bank (DNB)	100.0	51.0	100.0		Dominant	100.0	yes		1
	Finanzmarktaufsicht FINMA	100.0	100.0	100.0		Dominant	100.0	yes		1
		100.0	100.0	100.0		Dominant	100.0	yes		3
		100.0	100.0	0.0		Dominant	100.0	yes		3
		100.0	100.0	0.0		Dominant	100.0	yes		3
		100.0	100.0	0.0		Dominant	100.0	yes		3
		100.0	100.0	0.0		Dominant	100.0	yes		3
		100.0	100.0	0.0		Dominant	100.0	yes		3
		100.0	100.0	0.0		Dominant	100.0	yes		3
	Bundesanstalt für Finanzdienstleistungsaufsicht (BaFin)	100.0	100.0	100.0		Dominant	100.0	yes		1

Undertakings in the scope of the group

Country	Identification code of the undertaking	Type of code of the ID of the undertaking	Legal name of undertaking	Type of undertaking ¹	Legal form	Category (mutual/non-mutual) ²
BE	LEI/529900SS2ES08VQ69F51	LEI	DKV Belgium S.A.	2	Naamloze Vennootscha	2
DE	LEI/52990080PZFAW0UIVJ51	LEI	DKV Pflegedienste & Residenzen GmbH	10	GmbH	2
ES	LEI/529900G6IMJJHYXFWN65	LEI	DKV Seguros y Reaseguros	4	Sociedad anónima	2
ES	LEI/9598004T6F61X29YUK98	LEI	DKV Servicios, S.A., Saragossa	10	Sociedad anónima	2
DE	LEI/5299007CPV3DTU8W7X21	LEI	DKV-Residenz am Tibusplatz GmbH, Münster	10	GmbH	2
DE	LEI/529900OD0RD1ICRX2W84	LEI	DKV-Residenz in der Contrescarpe gemeinnützige Gesellschaft	10	GmbH	2
NL	LEI/529900YWS1PXD6CCBL15	LEI	DRA Debt Recovery Agency B.V.	10	Besloten Vennootscha	2
US	LEI/2138008ITC8C3BEMBZ59	LEI	E&S Claims Management Inc.	10	Business corporation	2
NL	LEI/529900ZAW1DYDFVTOG22	LEI	Economic Data Resources B.V	10	Besloten Vennootscha	2
FR	LEI/391200SXYGWTDKZCTU60	LEI	EGM Wind SAS	10	SAS societe par act.	2
US	LEI/549300Q6OWF8V3Z8FP98	LEI	EIG, CO.	6	Business corporation	2
DE	SC/LEI/529900MUF4C20K50JS49/DE/10169	Specific	Energie Kapital GmbH & Co. Solarfonds 2 KG	10	GmbH & Co. KG	2
DE	LEI/529900BYQALNXZROHV07	LEI	ERGO Alpha GmbH	10	GmbH	2
SG	SC/LEI/529900MUF4C20K50JS49/SG/60127	Specific	ERGO Asia Management Pte. Ltd.	10	Private Comp. L.b.S.	2
RO	LEI/549300MK1V4X2UORUX05	LEI	ERGO ASIGURARI DE VIATA SA	1	Societăți pe acțiuni	2
RO	SC/LEI/529900MUF4C20K50JS49/RO/60164	Specific	ERGO ASIGURARI S.A.	2	Societăți pe acțiuni	2
AT	LEI/529900PK3FYD60LY8E40	LEI	ERGO Austria International AG	5	Aktiengesellschaft	2
DE	LEI/529900FPXXCQK14XAR74	LEI	ERGO Beratung und Vertrieb AG	10	Aktiengesellschaft	2
CN	SC/LEI/529900MUF4C20K50JS49/CN/56097	Specific	ERGO China Life Insurance Co., Ltd.	1	Company Limited	2
DE	LEI/529900XTL4KOTFF3Q453	LEI	ERGO Deutschland AG	10	GmbH	2
DE	SC/LEI/529900MUF4C20K50JS49/DE/50109	Specific	ERGO Digital IT GmbH	10	GmbH	2
DE	LEI/529900VUW5YYQFX1Y745	LEI	ERGO Digital Ventures AG	10	GmbH	2
DE	LEI/529900E2QCJZY56TCV63	LEI	ERGO DIREKT Krankenversicherung AG	2	Aktiengesellschaft	2
DE	LEI/529900I23UL0E4H64H40	LEI	ERGO DIREKT Lebensversicherung AG	1	Aktiengesellschaft	2
DE	LEI/529900TR199NLPASZ345	LEI	ERGO DIREKT Versicherung AG	2	Aktiengesellschaft	2
HU	LEI/213800QGZ8165TV9L145	LEI	ERGO Eletbiztosito	1	Biz.részvénytársaság	2

Supervisory Authority	% capital share	% used for the establishment of consolidated accounts	% voting rights	Other criteria	Criteria of influence		Inclusion in scope of Group supervision		Group solvency calculation
					Level of influence	Proportional share used for Group solvency calculation	Yes/no	Date of decision if Art. 214 is applied	Method used and, under Method 1, treatment of the undertaking ³
Financial Services and Markets Authority, National Bank of Belgium	100.0	100.0	100.0		Dominant	100.0	yes		1
	100.0	100.0	100.0		Dominant	100.0	yes		3
Direccion General de Seguros (DGS)	100.0	100.0	100.0		Dominant	100.0	yes		1
	100.0	100.0	100.0		Dominant	100.0	yes		10
	100.0	100.0	100.0		Dominant	100.0	yes		10
	100.0	100.0	100.0		Dominant	100.0	yes		10
	100.0	51.0	100.0		Dominant	51.0	yes		10
	100.0	100.0	100.0		Dominant	100	yes		3
	100.0	51.0	100.0		Dominant	51.0	yes		10
	40.0	40.0	40.0		Significant	40.0	yes		3
	100.0	100.0	100.0		Dominant	100	yes		1
	34.4	34.4	34.4		Significant	34.4	yes		10
	100.0	100.0	100.0		Dominant	100.0	yes		10
	100.0	100.0	100.0		Dominant	100.0	yes		10
Comisia de Supraveghere a Asigurarilor	100.0	100.0	100.0		Dominant	100.0	yes		1
	100.0	100.0	100.0		Dominant	100.0	yes		1
	100.0	100.0	100.0		Dominant	100.0	yes		1
	100.0	100.0	100.0		Dominant	100.0	yes		1
CIRC China Insurance Regulatory Commission	50.0	50.0	50.0		Significant	50.0	yes		3
	100.0	100.0	100.0		Dominant	100.0	yes		10
	100.0	100.0	100.0		Dominant	100.0	yes		10
	100.0	100.0	100.0		Dominant	100.0	yes		10
Bundesanstalt für Finanzdienstleistungsaufsicht (BaFin)	100.0	100.0	100.0		Dominant	100.0	yes		1
Bundesanstalt für Finanzdienstleistungsaufsicht (BaFin)	100.0	100.0	100.0		Dominant	100.0	yes		1
Bundesanstalt für Finanzdienstleistungsaufsicht (BaFin)	100.0	100.0	100.0		Dominant	100.0	yes		1
Bundesanstalt für Finanzdienstleistungsaufsicht (BaFin)	100.0	100.0	100.0		Dominant	100.0	yes		1
Hungarian Financial Supervisory Authority (HFSA)	100.0	99.9	100.0		Dominant	100.0	yes		1

Undertakings in the scope of the group

Country	Identification code of the undertaking	Type of code of the ID of the undertaking	Legal name of undertaking	Type of undertaking ¹	Legal form	Category (mutual/non-mutual) ²
DE	LEI/529900XSCZQHUR6ARI89	LEI	ERGO Elfte Beteiligungsgesellschaft mbH	10	GmbH	2
BE	SC/LEI/529900MUF4C20K50JS49/BE/91250	Specific	ERGO Fund Golden Aging	99	Limited	2
GR	LEI/529900UQZRIC761SRM91	LEI	ERGO General Insurance Company	2	Anonymos Eteria	2
ES	LEI/9598005RQFK6E65T5425	LEI	ERGO Generales Seguros y Reaseguros, S.A., Madrid	2	Sociedad anónima	2
CH	LEI/529900VI7HAJLOMK6F20	LEI	ERGO GmbH, Herisau (Switzerland)	10	GmbH (CH)	2
DE	LEI/529900OF76TERZUFMW26	LEI	ERGO Gourmet GmbH	99	GmbH	2
DE	LEI/52990021CYIIW4B60I18	LEI	ERGO Group AG	5	Aktiengesellschaft	2
TR	LEI/789000YD8UU1INTZOH67	LEI	ERGO Grubu Holding A.S.	5	Anonim Sirket	2
DE	SC/LEI/529900MUF4C20K50JS49/DE/58002	Specific	ERGO Grundstücksverwaltung	10	Gesellschaft bR	2
DE	LEI/5299009T96EOBDF4VG83	LEI	ERGO Immobilien-Verwaltungs GmbH	10	GmbH	2
DE	LEI/529900UG1WIHUB1IU20	LEI	ERGO Infrastructure Investment Gesundheit GmbH, Düsseldorf	10	GmbH	2
DE	LEI/529900B1Y6FG90JECU51	LEI	ERGO Infrastructure Investment Komposit GmbH, Düsseldorf	10	GmbH	2
DE	SC/LEI/529900MUF4C20K50JS49/DE/50107	Specific	ERGO Infrastructure Investment Leben GmbH	10	GmbH	2
DE	SC/LEI/529900MUF4C20K50JS49/DE/50106	Specific	ERGO Infrastructure Investment Pensionskasse GmbH	10	GmbH	2
RU	LEI/529900Q8FHF156ZSVM40	LEI	ERGO Insurance Company, St. Petersburg	2	zakrytoe akcionerhoe	2
BE	LEI/5299007TI9HJRE0V4G23	LEI	ERGO Insurance N.V.	4	Naamloze Vennootscha	2
SG	LEI/529900S6R4IXNL9C5010	LEI	ERGO Insurance Pte. Ltd., Singapore	4	Private Comp. L.b.S.	2
EE	LEI/549300WOSFHL8FRS5V57	LEI	ERGO Insurance SE Baltikum	2	Aktsiaselts	2
DE	LEI/X4L6EOE6OMD2QIB37P03	LEI	ERGO International AG	5	Aktiengesellschaft	2
DE	LEI/529900GFWTRCD7ENFG39	LEI	ERGO International Services GmbH	10	GmbH	2
LV	LEI/529900NOCKDD68CRKF70	LEI	ERGO Invest SIA, Riga (RIGFElpa)	10	Sabiedriba ar ierobe	2
DE	LEI/5299005PXQZRFZAFVF64	LEI	ERGO Leben Asien Verwaltungs GmbH	10	GmbH	2
DE	LEI/529900JFXJ4FC97TBH39	LEI	ERGO Lebensversicherung AG	1	Aktiengesellschaft	2
GR	LEI/529900VBKAJQAYU56590	LEI	ERGO Life Insurance Company	1	Anonymos Eteria	2
LT	LEI/5493001IOWSPIYMXRA82	LEI	ERGO Life Insurance SE	4	Societas Europaea	2
DE	LEI/529900TJYR44YARHR88	LEI	ERGO Neunte Beteiligungsgesellschaft mbH	10	GmbH	2

	Supervisory Authority	% capital share	% used for the establishment of consolidated accounts	% voting rights	Other criteria	Criteria of influence		Inclusion in scope of Group supervision		Group solvency calculation
						Level of influence	Proportional share used for Group solvency calculation	Yes/no	Date of decision if Art. 214 is applied	Method used and, under Method 1, treatment of the undertaking ³
		100.0	100.0	100.0		Dominant	100.0	yes		3
		100.0	100.0	0.0		Dominant	100.0	yes		3
	Hellenic Capital Market Commission, Directorate of Insurance	100.0	100.0	100.0		Dominant	100.0	yes		1
	Direccion General de Seguros (DGS)	100.0	100.0	100.0		Dominant	100.0	yes		1
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		1
		100.0	100.0	100.0		Dominant	100.0	yes		1
		100.0	100.0	100.0		Dominant	100.0	yes		1
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		10
	Federal Financial Markets Service (FFMS), Department of Insurance	100.0	100.0	100.0		Dominant	100.0	yes		1
	Financial Services and Markets Authority, National Bank of Belgium	100.0	100.0	100.0		Dominant	100.0	yes		1
		100.0	100.0	100.0		Dominant	100.0	yes		1
	Financial Supervision Authority (Finantsinspeksioon)	100.0	100.0	100.0		Dominant	100.0	yes		1
		100.0	100.0	100.0		Dominant	100.0	yes		1
		100.0	100.0	100.0		Dominant	100.0	yes		3
		100.0	100.0	100.0		Dominant	100.0	yes		3
		100.0	100.0	100.0		Dominant	100.0	yes		10
	Bundesanstalt für Finanzdienstleistungsaufsicht (BaFin)	100.0	100.0	100.0		Dominant	100.0	yes		1
	Hellenic Capital Market Commission, Directorate of Insurance	100.0	100.0	100.0		Dominant	100.0	yes		1
	Financial and Capital Markets Commission	100.0	100.0	100.0		Dominant	100.0	yes		1
		100.0	100.0	100.0		Dominant	100.0	yes		1

Undertakings in the scope of the group

Country	Identification code of the undertaking	Type of code of the ID of the undertaking	Legal name of undertaking	Type of undertaking ¹	Legal form	Category (mutual/non-mutual) ²
HR	LEI/529900YNUGX3BSF7UW33	LEI	ERGO osiguranje d.d	2	Dionicko drustvo	2
BE	LEI/529900GIYAOLBX21J16	LEI	ERGO Partners N.V.	10	Naamloze Vennootscha	2
DE	LEI/529900JZZGJ11RUVB627	LEI	ERGO Pensionsfonds AG	9	Aktiengesellschaft	2
DE	LEI/529900LG1TCV0M00WU23	LEI	ERGO Pensionskasse AG	9	Aktiengesellschaft	2
CZ	LEI/315700OLABZYLZ1JZU51	LEI	ERGO pojist'ovna, a.s., Prague	4	Akciová společnost	2
DE	LEI/529900TLPYZU5U9TBZ50	LEI	ERGO Private Capital Dritte GmbH & Co. KG	10	GmbH & Co. KG	2
DE	LEI/529900AGOAL9G5WPTD48	LEI	ERGO Private Capital Gesundheit GmbH & Co. KG	10	GmbH & Co. KG	2
DE	LEI/529900JO1K692QKHE964	LEI	ERGO Private Capital GmbH	10	GmbH	2
DE	LEI/52990029U2TVST16UD83	LEI	ERGO Private Capital Komposit GmbH & Co. KG	10	GmbH	2
DE	LEI/529900609SFSWP7OZ376	LEI	ERGO Private Capital Leben GmbH & Co. KG	10	GmbH & Co. KG	2
DE	LEI/529900OSJZZOZSOJK704	LEI	ERGO Private Capital Vierte GmbH & Co. KG	10	GmbH & Co. KG	2
DE	LEI/52990042QWZB0V2ZE889	LEI	ERGO Private Capital Zweite GmbH & Co. KG	10	GmbH & Co. KG	2
IT	LEI/529900KKE2SMM6J5ZR35	LEI	ERGO PRO S.r.l., Verona	10	Soc.a Responsab. Lim.	2
PL	LEI/529900MTAXWZQN1HWY18	LEI	ERGO Pro Sp. z o.o., Warsaw	10	SP.z.o.o.	2
CZ	LEI/529900Z0JLEC0BH7ES95	LEI	ERGO Pro, spol. s r.o., Prague	10	s. r. o.	2
TR	LEI/7890003IHMH2J1KG1C30	LEI	ERGO SIGORTA A.S., Istanbul (S/U)	2	Anonim Sirket	2
SK	LEI/097900BFCD0000009725	LEI	ERGO Slovakia	4	Akciová spoločnos	2
DE	SC/LEI/529900MUF4C20K50JS49/DE/91159	Specific	ERGO Trust Logistikfonds Nr. 1	99	Segregated fund	2
DE	LEI/529900TZURIWZSMOYV38	LEI	ERGO Versicherung AG	2	Aktiengesellschaft	2
AT	LEI/5299007W3TDXUG0DIK38	LEI	ERGO Versicherung Aktiengesellschaft, Vienna	4	Aktiengesellschaft	2
DE	LEI/529900X74BHF8B8PYY92	LEI	ERGO Versicherungs- und Finanzierungs-Vermittlung GmbH	10	GmbH	2
ES	LEI/5299003NVOZ58BDXCC38	LEI	ERGO Vida Seguros y Reaseguros S.A.	1	Sociedad anónima	2
DE	LEI/529900ROKJEOHMGVSM75	LEI	ERGO Zehnte Beteiligungsgesellschaft mbH	10	GmbH	2
SI	LEI/529900LGZ8JS7B9UI749	LEI	ERGO Zivljenjska zavarovalnica d. d.	1	Delniška družba	2

Supervisory Authority	% capital share	% used for the establishment of consolidated accounts	% voting rights	Other criteria	Criteria of influence		Inclusion in scope of Group supervision		Group solvency calculation
					Level of influence	Proportional share used for Group solvency calculation	Yes/no	Date of decision if Art. 214 is applied	Method used and, under Method 1, treatment of the undertaking ³
Croatian Financial Services Supervisory Agency (HANFA)	100.0	99.7	100.0		Dominant	100.0	yes		1
	100.0	100.0	100.0		Dominant	100.0	yes		3
Bundesanstalt für Finanzdienstleistungsaufsicht (BaFin)	100.0	100.0	100.0		Dominant	100.0	yes		4
Bundesanstalt für Finanzdienstleistungsaufsicht (BaFin)	100.0	100.0	100.0		Dominant	100.0	yes		4
	100.0	99.7	100.0		Dominant	100.0	yes		1
	100.0	100.0	100.0		Dominant	100.0	yes		3
	100.0	100.0	100.0		Dominant	100.0	yes		1
	100.0	100.0	100.0		Dominant	100.0	yes		10
	100.0	100.0	100.0		Dominant	100.0	yes		1
	100.0	100.0	100.0		Dominant	100.0	yes		1
	100.0	100.0	100.0		Dominant	100.0	yes		3
	100.0	100.0	100.0		Dominant	100.0	yes		3
	100.0	99.7	100.0		Dominant	99.7	yes		10
	100.0	100.0	100.0		Dominant	100.0	yes		10
	100.0	99.7	100.0		Dominant	99.7	yes		10
Undersecretariat of Treasury/Insurance Supervisory Board	100.0	100.0	100.0		Dominant	100.0	yes		1
Národná banka Slovenska	100.0	99.8	100.0		Dominant	100.0	yes		1
	33.3	33.3	0.0		Significant	33.3	yes		3
Bundesanstalt für Finanzdienstleistungsaufsicht (BaFin)	100.0	100.0	100.0		Dominant	100.0	yes		1
Finanzmarktaufsicht (FMA)	98.8	98.8	98.8		Dominant	100.0	yes		1
	100.0	100.0	100.0		Dominant	100.0	yes		10
Dirección General de Seguros (DGS)	100.0	100.0	100.0		Dominant	100.0	yes		1
	100.0	100.0	100.0		Dominant	100.0	yes		10
Banka Slovenije, Agencija za trg Vrednostnih Papirjev	100.0	100.0	100.0		Dominant	100.0	yes		1

Undertakings in the scope of the group

Country	Identification code of the undertaking	Type of code of the ID of the undertaking	Legal name of undertaking	Type of undertaking ¹	Legal form	Category (mutual/non-mutual) ²
HR	LEI/529900X5KXMQKTW28N82	LEI	ERGO Zivotno osiguranje d.d	1	Dionicko drustvo	2
DE	LEI/529900YOLW49KLOUVS14	LEI	ERGO Zwölfte Beteiligungsgesellschaft mbH	10	GmbH	2
CN	SC/LEI/529900MUF4C20K50JS49/CN/16031	Specific	ERV (China) Travel Service and Consulting Ltd	10	Limited	2
IN	LEI/529900N6S2HJM3BU2693	LEI	ERV (India) Travel Service and Consulting Private Limited	10	Private Limited	2
CZ	LEI/315700A0UB9Q7DOQIZ00	LEI	ERV Evropska pojistovna, a.s.	2	Akciová společnost	2
SE	LEI/529900HNS75EJF98RB59	LEI	ERV Försäkringsaktiebolag (publ)	2	Försäkringsaktieb.	2
TR	SC/LEI/529900MUF4C20K50JS49/TR/16035	Specific	ERV Seyahat Sigorta Aracılık Hizmetleri ve Danismanlık Ltd.	10	Limited Sirket	2
CZ	LEI/5299005O34B1URHGOW07	LEI	Etics	10	s. r. o.	2
ES	LEI/529900O27OX0M3IU4U36	LEI	ETOBLETE 160016, S.L.	10	Sociedad Limitada	2
CY	SC/LEI/529900MUF4C20K50JS49/CY/16041	Specific	Euro-Center (Cyprus) Ltd	10	Limited	2
TH	SC/LEI/529900MUF4C20K50JS49/TH/16037	Specific	Euro-Center (Thailand) Co. Ltd.	10	Company Limited	2
ZA	SC/LEI/529900MUF4C20K50JS49/ZA/16046	Specific	Euro-Center Cape Town (Pty.) Ltd	10	Private/Propriety Co	2
HK	LEI/529900V1195DZATOFI03	LEI	Euro-Center Holding North Asia (HK) Pte. Ltd.	10	Private Company LbS	2
CZ	LEI/529900RQ720EGQ4P2854	LEI	Euro-Center Holding SE, Prague	10	Aktieselskab	2
BR	SC/LEI/529900MUF4C20K50JS49/BR/16036	Specific	Euro-Center Ltda	10	Soc.por Quotas de Re	2
CN	SC/LEI/529900MUF4C20K50JS49/CN/16055	Specific	Euro-Center North Asia Consulting Services (Beijing)	10	Company Limited	2
CZ	LEI/529900SSAZPEILTBGU79	LEI	Euro-Center Prague, s.r.o.	10	s. r. o.	2
US	SC/LEI/529900MUF4C20K50JS49/US/16044	Specific	Euro-Center USA	10	Business corporation	2
TR	SC/LEI/529900MUF4C20K50JS49/TR/16043	Specific	Euro-Center Yerel Yardim	10	Limited Sirket	2
ES	SC/LEI/529900MUF4C20K50JS49/ES/16039	Specific	Euro-Center, S.A. (Spain)	10	Sociedad anónima	2
DK	LEI/529900XCDP67EU703X29	LEI	Europaeiske Rejseforsikring A/S	2	Aktieselskab	2
HU	LEI/529900MLIDA51W4RTR25	LEI	Europai Utazasi Biztosito Rt.	2	Biz.részvénytársaság	2
GB	LEI/5299007KW1EKAYND4Z19	LEI	Europäische (UK) Ltd.	10	Private limited company	2
DE	LEI/529900GPC0BEXNKO6N32	LEI	Europäische Reiseversicherung AG	2	Aktiengesellschaft	2
AT	LEI/52990097HEM6G3FED703	LEI	Europäische Reiseversicherung AG, Vienna	2	Aktiengesellschaft	2
DE	LEI/529900SFBVYR5M6G9092	LEI	European Assistance Holding GmbH	10	GmbH	2
ES	LEI/959800U4XJJBPT4EB89	LEI	Evaluacion Medica	10	Sociedad Limitada	2
GB	LEI/213800S1MCEO6QNFXN82	LEI	Everything Legal Ltd	10	Private limited company	2

	Supervisory Authority	% capital share	% used for the establishment of consolidated accounts	% voting rights	Other criteria	Criteria of influence		Inclusion in scope of Group supervision		Group solvency calculation
						Level of influence	Proportional share used for Group solvency calculation	Yes/no	Date of decision if Art. 214 is applied	Method used and, under Method 1, treatment of the undertaking ³
	Croatian Financial Services Supervisory Agency (HANFA)	100.0	99.7	100.0		Dominant	100.0	yes		1
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	99.0	100.0		Dominant	99.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		10
	Česká Národní Banka	90.0	90.0	90.0		Dominant	100.0	yes		1
	Finansinspektionen (FI)	100.0	100.0	100.0		Dominant	100.0	yes		1
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	90.0	100.0		Dominant	90.0	yes		10
		100.0	75.1	100.0		Dominant	75.1	yes		10
		100.0	81.7	100.0		Dominant	81.7	yes		10
		100.0	81.7	100.0		Dominant	81.7	yes		10
		100.0	81.7	100.0		Dominant	81.6664	yes		10
		100.0	81.7	100.0		Dominant	81.7	yes		10
		83.3	81.7	83.3		Dominant	81.7	yes		10
		100.0	81.7	100.0		Dominant	81.7	yes		10
		100.0	81.7	100.0		Dominant	81.7	yes		10
		100.0	81.7	100.0		Dominant	81.7	yes		10
		100.0	81.7	100.0		Dominant	81.7	yes		10
		100.0	81.7	100.0		Dominant	81.7	yes		10
	Finanstilsynet (DFSA)	100.0	100.0	100.0		Dominant	100.0	yes		1
	Pénzügyi Szervezetek Állami Felügyelete (PSZAF)	26.0	26.0	26.0		Significant	26.0	yes		3
		100.0	100.0	100.0		Dominant	100.0	yes		10
	Bundesanstalt für Finanzdienstleistungsaufsicht (BaFin)	100.0	100.0	100.0		Dominant	100.0	yes		1
	Finanzmarktaufsicht (FMA)	25.0	25.0	25.0		Significant	25.0	yes		3
		100.0	99.0	100.0		Dominant	99.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		3

Undertakings in the scope of the group

Country	Identification code of the undertaking	Type of code of the ID of the undertaking	Legal name of undertaking	Type of undertaking ¹	Legal form	Category (mutual/non-mutual) ²
DE	LEI/529900NTBJ7S6QY8BM79	LEI	Exolvo GmbH, Hamburg	10	GmbH	2
DE	LEI/529900Q6ZNCYDJ9G4443	LEI	Fairance GmbH	10	GmbH	2
AU	SC/LEI/529900MUF4C20K50JS49/AU/22010	Specific	Famous Insurance Agency Pty Limited	10	Proprietary Ltd Comp	2
DE	SC/LEI/529900MUF4C20K50JS49/DE/56054	Specific	Fernkälte Geschäftsstadt Nord	10	Gesellschaft bR	2
US	SC/LEI/529900MUF4C20K50JS49/US/10214	Specific	FIA Timber Parnters II L.P.	99	Limited partnership	2
ZW	LEI/213800MA9DXB33AO6B38	LEI	Finsure	99	Private/Propriety Co	2
GB	SC/LEI/529900MUF4C20K50JS49/GB/52025	Specific	First Legal Protection	10	Private limited company	2
DE	LEI/5299001QYPP226VRJY30	LEI	Flexitel Telefonservice GmbH, Berlin	10	GmbH	2
DE	LEI/3912005DKSYK5D0KRZ40	LEI	Forst Ebnath AG	10	Aktiengesellschaft	2
IT	LEI/815600DA9D4D4AC03729	LEI	FOTOUNO S.r.l.	10	Soc.a Responsab. Lim.	2
IT	LEI/815600688B2328245670	LEI	FOTOWATIO ITALIA GALATINA S.r.l.	10	Soc.a Responsab. Lim.	2
BR	SC/LEI/529900MUF4C20K50JS49/BR/91228	Specific	Fundo Invest Exclusivo referenciado di Munich Re Brasil	99	Fondo para el public	2
DE	SC/LEI/529900MUF4C20K50JS49/DE/91165	Specific	FVV Select OP	99	Mutual fund	2
ES	LEI/529900P391JSTYKRC860	LEI	GAMAPONTI 140014, S.L.	10	Sociedad Limitada	2
DE	LEI/529900GN7FT2ANZ0YX56	LEI	GBG Vogelsanger Straße mbH	10	GmbH	2
DE	LEI/529900R572DRA58YKO86	LEI	Gebäude Service Überseering 35	10	GmbH	2
AT	SC/LEI/529900MUF4C20K50JS49/AT/91136	Specific	GF 65	99	Segregated fund	2
CA	SC/LEI/529900MUF4C20K50JS49/CA/10809	Specific	GHGH Holdings Inc., Surrey	10	Corporation	2
DE	LEI/529900JVWYKSHRPVWA29	LEI	GIG City Nord GmbH	10	GmbH	2
GB	SC/LEI/529900MUF4C20K50JS49/GB/10107	Specific	Global Aerospace Underwriting Manager	10	Limited partnership	2
VN	SC/LEI/529900MUF4C20K50JS49/VN/60148	Specific	Global Insurance Company	4	Joint stock company	2
US	LEI/549300C0QOSX08KH1X10	LEI	Global Standards, LLC	6	Business corporation	2
LU	LEI/222100M5YXWXWJ8ING43	LEI	Globality S.A.	2	Société anonyme	2
DE	LEI/529900O65EWT1DOZ6S44	LEI	goDentis - Gesellschaft für Innovation in der Zahnheilkunde	10	GmbH	2
DE	LEI/529900G6OFVZT9249M23	LEI	goMedus Ges. für Qualität in der Medizin mbH, Cologne	10	GmbH	2
DE	LEI/529900OYDMK94Z6Z4S80	LEI	goMedus GmbH & Co. KG	10	GmbH & Co. KG	2
ES	LEI/529900HP1Q9VANRI9J66	LEI	Grancan Sun Line	10	Sociedad Limitada	2
BE	SC/LEI/529900MUF4C20K50JS49/BE/22002	Specific	Great Lakes Re Management Co. (Belgium)	10	Naamloze Vennootscha	2
GB	LEI/529900L9ZF0WUNQRKY64	LEI	Great Lakes Reinsurance (UK) SE	2	Incorporated compan.	2
US	SC/LEI/529900MUF4C20K50JS49/US/10351	Specific	Green Acre LLC	99	Business corporation	2
GB	LEI/2138003XFNHGAP27EF26	LEI	Group Risk Services	10	Private limited company	2

Supervisory Authority	% capital share	% used for the establishment of consolidated accounts	% voting rights	Other criteria	Criteria of influence		Inclusion in scope of Group supervision		Group solvency calculation
					Level of influence	Proportional share used for Group solvency calculation	Yes/no	Date of decision if Art. 214 is applied	Method used and, under Method 1, treatment of the undertaking ³
	100.0	100.0	100.0		Dominant	100.0	yes		10
	100.0	100.0	100.0		Dominant	100.0	yes		3
	20.0	20.0	20.0		Significant	20.0	yes		10
	39.9	39.9	39.9		Significant	39.9	yes		10
	39.1	39.1	39.1		Significant	39.1	yes		3
	24.5	24.5	24.5		Significant	24.5	yes		10
	100.0	100.0	100.0		Dominant	100.0	yes		10
	100.0	100.0	100.0		Dominant	100.0	yes		3
	100.0	100.0	100.0		Dominant	100.0	yes		1
	100.0	100.0	100.0		Dominant	100.0	yes		1
	100.0	100.0	100.0		Dominant	100.0	yes		1
	98.2	98.2	0.0		Dominant	98.2	yes		3
	43.5	43.5	0.0		Significant	43.5	yes		3
	100.0	75.1	100.0		Dominant	75.1	yes		10
	94.8	94.8	94.8		Dominant	94.8	yes		10
	100.0	100.0	100.0		Dominant	100.0	yes		10
	100.0	98.8	0.0		Dominant	98.8	yes		3
	40.0	40.0	40.0		Significant	40.0	yes		3
	20.0	20.0	20.0		Significant	20.0	yes		10
	40.0	40.0	40.0		Significant	40.0	yes		3
	43.8	43.8	43.8		Significant	43.75	yes		3
CAA Commissariat aux Assurances	100.0	100.0	100.0		Dominant	100	yes		1
	100.0	100.0	100.0		Dominant	100.0	yes		1
	100.0	100.0	100.0		Dominant	100.0	yes		10
	100.0	100.0	100.0		Dominant	100.0	yes		10
	100.0	100.0	100.0		Dominant	100.0	yes		10
	100.0	75.1	100.0		Dominant	75.1	yes		10
	100.0	100.0	100.0		Dominant	100.0	yes		10
Prudential Regulatory Authority (PRA)	100.0	100.0	100.0		Dominant	100.0	yes		1
	31.9	31.9	31.9		Significant	31.9	yes		3
	100.0	100.0	100.0		Dominant	100.0	yes		3

Undertakings in the scope of the group

Country	Identification code of the undertaking	Type of code of the ID of the undertaking	Legal name of undertaking	Type of undertaking ¹	Legal form	Category (mutual/non-mutual) ²
GB	SC/LEI/529900MUF4C20K50JS49/GB/10393	Specific	Group Risk Technologies Ltd	10	Private limited company	2
GB	LEI/213800RI83XHCVPE1T22	LEI	Groves, John & Westrup Limited	10	Private limited company	2
ES	LEI/529900ODKY723MV2E538	LEI	GUANZU 2002, S.L.	10	Sociedad Limitada	2
PT	SC/LEI/529900MUF4C20K50JS49/PT/58017	Specific	Habiscos Investimentos Imobiliares	10	Sociedade anónima	2
DE	LEI/39120001JPKHKZUSYT32	LEI	Hamburger Hof Management GmbH	10	GmbH	2
DK	LEI/529900PA0KJ7B9TVFK24	LEI	Hamburg-Mannheimer ForsikringsService	10	Aktieselskab	2
DE	LEI/529900KGACA9PPXT1842	LEI	Hannover Finanz-Umwelt Beteiligungsges.	10	GmbH	2
US	LEI/549300UKHLTQENP69I26	LEI	Hartford Research, LLC	10	Business corporation	2
MY	LEI/549300OZBTHQB280DQ07	LEI	Hartford Steam Boiler (M) Sdn. Bhd.	10	Sendirian Berhad	2
SG	LEI/549300BGKJVNK34VQ746	LEI	Hartford Steam Boiler (Singapore) PTE Ltd.	10	Public Comp. L.b.S.	2
CO	LEI/5493006ZLOUD41AN25563	LEI	Hartford Steam Boiler Colombia Ltda	10	Sociedad Anónima	2
DE	LEI/549300CZVEVGCN86R028	LEI	Hartford Steam Boiler International GmbH	10	Aktiengesellschaft	2
GB	LEI/549300K27SI0JXMTHW31	LEI	Hartford Steam Boiler UK Limited	10	Public Company Limited	2
IN	LEI/529900XS7H6CPQS1IO14	LEI	HDFC ERGO General Insurance Ltd.	4	Private limited company	2
PL	LEI/259400SG385SKQXYKF60	LEI	Hestia Loss Control Sp. z o.o.	10	SP.z.o.o.	2
DE	LEI/529900TWXPLR8VDVJO22	LEI	High Tech Beteiligungen GmbH und Co KG	10	GmbH & Co. KG	2
DE	SC/LEI/529900MUF4C20K50JS49/DE/10399	Specific	HK2 GmbH	99	GmbH	2
DE	SC/LEI/529900MUF4C20K50JS49/DE/91075	Specific	HM Sach Rent 1	99	Segregated fund	2
DE	LEI/529900EQ5TBSULYUOY50	LEI	HMV GFKL Beteiligungs GmbH	10	GmbH	2
DE	LEI/529900T4DHN5F6S2L477	LEI	Horbach GmbH	10	GmbH	2
US	SC/LEI/529900MUF4C20K50JS49/US/56087	Specific	HRJ Capital Global Buy-Out III (U.S.), L.P.	99	Business corporation	2
US	LEI/549300V2X2ZV1EF0C234	LEI	HSB Associates, Inc.	10	Business corporation	2
BR	LEI/549300BPPG4MX2ZZ0W19	LEI	HSB Brasil Servicos de Engenharia e Inspecao Ltda	10	Soc.por Quotas de Re	2
US	LEI/549300CXZ613N6A4FE05	LEI	HSB Engineering Finance Corporation	10	Business corporation	2
GB	LEI/213800NLHFFJLPITYF50	LEI	HSB Engineering Insurance Limited	2	Private limited company	2
GB	LEI/213800TUNRI2RDXJ5W28	LEI	HSB Engineering Insurance Services Limited	10	Private limited company	2
US	LEI/549300YBYP3KZS5URX14	LEI	HSB Group, Inc.	6	Business corporation	2
IN	LEI/549300USNPM6R2GR7B64	LEI	HSB International (India) Private Limited	10	Private Limited	2
JP	LEI/549300O30SZHCT8H1X04	LEI	HSB Japan KK	10	Kabushiki Kaisha	2

	Supervisory Authority	% capital share	% used for the establishment of consolidated accounts	% voting rights	Other criteria	Criteria of influence		Inclusion in scope of Group supervision		Group solvency calculation
						Level of influence	Proportional share used for Group solvency calculation	Yes/no	Date of decision if Art. 214 is applied	Method used and, under Method 1, treatment of the undertaking ³
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		3
		100.0	75.1	100.0		Dominant	75.1	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		3
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		10
		20.0	20.0	20.0		Significant	20.0	yes		10
		41.8	41.8	20.0		Significant	41.75	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		3
		100.0	100.0	100.0		Dominant	100.0	yes		3
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		3
		100.0	100.0	100.0		Dominant	100.0	yes		10
	IRDA Insurance Regulatory and Development Authority (no SII)	48.7	48.7	48.7		Significant	48.7	yes		3
		100.0	100.0	100.0		Dominant	100.0	yes		10
		23.9	23.9	23.9		Significant	23.9	yes		3
		51.0	51.0	51.0		Dominant	51.0	yes		10
		100.0	100.0	0.0		Dominant	100.0	yes		3
		100.0	100.0	100.0		Dominant	100.0	yes		3
		70.1	70.1	70.1		Dominant	70.1	yes		10
		44.7	44.7	44.7		Significant	44.6509	yes		3
		100.0	100.0	100.0		Dominant	100	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		3
		100.0	100.0	100.0		Dominant	100	yes		3
	Prudential Regulatory Authority (PRA)	100.0	100.0	100.0		Dominant	100.0	yes		1
		100.0	100.0	100.0		Dominant	100.0	yes		1
		100.0	100.0	100.0		Dominant	100	yes		1
		100.0	100.0	100.0		Dominant	100.0	yes		3
		100.0	100.0	100.0		Dominant	100.0	yes		3

Undertakings in the scope of the group

Country	Identification code of the undertaking	Type of code of the ID of the undertaking	Legal name of undertaking	Type of undertaking ¹	Legal form	Category (mutual/non-mutual) ²
US	LEI/549300Z6EK4JLRW12Y47	LEI	HSB Secure Services, Inc.	10	Business corporation	2
CA	LEI/549300E0UYKSTI5PM755	LEI	HSB Solomon Associates Canada Ltd	10	Corporation	2
US	LEI/549300M4QNR2STP1358	LEI	HSB Solomon Associates LLC,	10	Business corporation	2
US	LEI/549300WKX003S16OH493	LEI	HSB Speciality Insurance Company	2	Business corporation	2
CN	LEI/549300DC6S636FGMSP43	LEI	HSB Technical Consulting & Service (Shanghai) Company, Ltd	10	Limited liability co	2
US	LEI/549300XIK1EC4LHEDQ58	LEI	HSB Ventures, Inc.	10	Business corporation	2
PT	SC/LEI/529900MUF4C20K50JS49/PT/58016	Specific	Ibero Property Portugal	10	Sociedade anónima	2
ES	SC/LEI/529900MUF4C20K50JS49/ES/58015	Specific	Ibero Property Trust S.A., Madrid	10	Sociedad anónima	2
DE	LEI/529900TJC2V3RI9KHT14	LEI	Ideekap. Prorendita Eins Treuhandges. mbH, Düsseldorf	10	GmbH	2
DE	LEI/529900KKPN5Y29EXTG88	LEI	IDEENKAPITAL Anlagebetreuungs GmbH	10	GmbH	2
DE	LEI/529900GDS4X6TH0XOD89	LEI	Ideekapital Client Service GmbH	10	GmbH	2
DE	LEI/529900STAAMM5WWKAS53	LEI	Ideekapital erste Investoren Service	10	GmbH	2
DE	LEI/52990082RDQBJWE1R163	LEI	IDEENKAPITAL Financial Engineering GmbH	10	GmbH	2
DE	LEI/529900YA8OXMSG6THI43	LEI	IDEENKAPITAL Financial Service GmbH	10	GmbH	2
DE	LEI/5299005C5SN6ALZSPG63	LEI	Ideekapital Fonds Treuhand GmbH	10	GmbH	2
DE	LEI/529900TY3XQKPELOT966	LEI	IDEENKAPITAL GmbH	10	GmbH	2
DE	LEI/5299001CGXVO6RQ19331	LEI	IDEENKAPITAL Media Finance GmbH	10	GmbH	2
DE	LEI/529900YAFNSUTCJM0Z80	LEI	Ideekapital Media Treuhand GmbH	10	GmbH	2
DE	LEI/529900XG38UN8LPE9A29	LEI	IDEENKAPITAL Metropolen Europa GmbH & Co. KG	10	GmbH & Co. KG	2
DE	LEI/529900S5S9XR3LR8ZA75	LEI	IDEENKAPITAL Metropolen Europa Verwaltungsgesellschaft mbH	10	GmbH	2
DE	LEI/529900XF5DK4E2ZW1N40	LEI	IDEENKAPITAL Schiffsfonds Treuhand GmbH, Düsseldorf	10	GmbH	2
DE	LEI/529900DUZVTOVCXY4J17	LEI	Ideekapital Treuhand US Real Estate eins GmbH, Düsseldorf	10	GmbH	2
DE	SC/LEI/529900MUF4C20K50JS49/DE/91060	Specific	iii	99	Segregated fund	2
DE	SC/LEI/529900MUF4C20K50JS49/DE/50088	Specific	IK Einkauf Objekt Eins GmbH & Co. KG	10	GmbH & Co. KG	2
DE	LEI/529900SMSRWZBK56OF71	LEI	IK Einkauf Objektmanagement GmbH	10	GmbH	2
DE	LEI/5299001S8RE04ILT3441	LEI	IK Einkauf Objektverwaltungsgesellschaft mbH	10	GmbH	2
DE	LEI/5299008P7VE24WEMD067	LEI	IK Einkaufsmärkte Deutschland GmbH & Co. KG	10	GmbH & Co. KG	2
DE	LEI/529900CEB7BQD28BJD22	LEI	IK Einkaufsmärkte Deutschland Verwaltungsgesellschaft mbH	10	GmbH	2

Undertakings in the scope of the group

Country	Identification code of the undertaking	Type of code of the ID of the undertaking	Legal name of undertaking	Type of undertaking ¹	Legal form	Category (mutual/non-mutual) ²
DE	LEI/5299001ELDYF7WU5HZ53	LEI	IK FE Fonds Management GmbH	10	GmbH	2
DE	LEI/529900XCL1OPSQUTOV22	LEI	IK Komp GmbH	10	GmbH	2
DE	SC/LEI/529900MUF4C20K50JS49/DE/66245	Specific	IK MEGA 4 Service GmbH	10	GmbH	2
DE	LEI/529900ASO8TYBL3MOR37	LEI	IK Objekt Bensheim	10	GmbH	2
DE	LEI/529900SMDCHL24NDV129	LEI	IK Objekt Frankfurt Theodor-Heuss-Allee GmbH	10	GmbH	2
DE	LEI/529900TDIDXXZXFWEWZ94	LEI	IK Objekt Frankfurt Theodor-Heuss-Allee KG	10	GmbH	2
DE	LEI/5299002XBVAQDS2GVA47	LEI	IK Pflegezentrum Uelzen Verwaltungs-GmbH	10	GmbH	2
DE	LEI/529900RO54RRWAV5EI40	LEI	IK Premium Fonds GmbH & Co. KG	10	GmbH & Co. KG	2
DE	LEI/529900T36Y7T00HPMH55	LEI	IK Premium Fonds zwei GmbH & Co.KG	10	GmbH & Co. KG	2
DE	LEI/5299005P0YWMZD0U8I59	LEI	IK Property Eins Verwaltungsgesellschaft mbH	10	GmbH	2
DE	LEI/529900BVJWRO5AH2ZF96	LEI	IK Property Treuhand GmbH	10	GmbH	2
DE	LEI/529900LD5STI00XRDJ24	LEI	IK US Portfolio Invest Drei Verw. GmbH	10	GmbH	2
DE	LEI/52990032NUMM3O7DAO41	LEI	IK US Portfolio Invest Verwaltungs-GmbH	10	GmbH	2
DE	LEI/529900R6PZYE49H0S150	LEI	IK US Portfolio Invest ZWEI Verwaltungs-GmbH, Düsseldorf	10	GmbH	2
CH	LEI/5299002HOIX645JM2F46	LEI	IKFE Properties I AG	10	Aktiengesellschaft	2
PT	SC/LEI/529900MUF4C20K50JS49/PT/58066	Specific	Imofloresmira - Investimentos Imobiliarios S.A., Lisbon	10	Sociedade anónima	2
LU	LEI/529900ABVINK51Z7B232	LEI	Infra IV-D Investments, S.C.A.	10	Société en commandit	2
RU	LEI/529900J5YLBX15V1MD91	LEI	Insurance Company "ERGO Life" Ltd., Moscow	1	zakrytoe akcionerhoe	2
US	SC/LEI/529900MUF4C20K50JS49/US/64023	Specific	Invenergy Miami Wind I Holdings #2 LLC	99	Business corporation	2
LU	LEI/549300F4SEW16TV67E85	LEI	Invesco MEAG US Immobilien Fonds IV B	99	Fonds Public	2
DE	LEI/529900V83SB37T0MIO53	LEI	IRIS Capital Fund II German Investors GmbH & Co. KG	10	GmbH & Co. KG	2
DE	LEI/529900QCOY36P1FVN503	LEI	ITERGO Informationstechnologie GmbH	10	GmbH	2
DE	LEI/39120001LZG1RRMASM69	LEI	Janus Vermögensverwaltungsgesellschaft	10	GmbH	2
HU	LEI/529900FTFENWYHL3BT49	LEI	Jogszerviz Kft.	10	Biz.részvénytársaság	2
BY	SC/LEI/529900MUF4C20K50JS49/BY/60021	Specific	Joint Stock Insurance Company ERGO	4	JSIC	2
RU	LEI/52990038AQSVZ5F0S189	LEI	JSC ERV Travel Insurance, Moscow	2	zakrytoe akcionerhoe	2
DE	SC/LEI/529900MUF4C20K50JS49/DE/10803	Specific	Junos Verwaltungs GmbH	99	GmbH	2
CH	SC/LEI/529900MUF4C20K50JS49/CH/52112	Specific	JUSTIS Sàrl	10	GmbH (CH)	2
DE	LEI/5299005IP7RTMCRFVT35	LEI	K & P Objekt Hamburg Hamburger Str GmbH	10	GmbH	2

	Supervisory Authority	% capital share	% used for the establishment of consolidated accounts	% voting rights	Other criteria	Criteria of influence		Inclusion in scope of Group supervision		Group solvency calculation
						Level of influence	Proportional share used for Group solvency calculation	Yes/no	Date of decision if Art. 214 is applied	Method used and, under Method 1, treatment of the undertaking ³
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		10
		47.4	47.4	47.4		Significant	47.4	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		3
		100.0	100.0	100.0		Dominant	100.0	yes		3
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		10
		63.6	63.6	63.6		Dominant	63.6	yes		3
		100.0	100.0	100.0		Dominant	100.0	yes		3
		100.0	100.0	100.0		Significant	100.0	yes		3
	Federal Financial Markets Service (FFMS), Department of Insurance	100.0	100.0	100.0		Dominant	100.0	yes		1
		49.0	49.0	49.0		Significant	49	yes		3
		37.1	37.1	0.0		Significant	37.1	yes		3
		85.7	85.7	85.7		Dominant	85.7	yes		3
		100.0	100.0	100.0		Dominant	100.0	yes		1
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		10
	Committee for Insurance Supervision	92.3	92.3	92.3		Dominant	100.0	yes		1
		100.0	100.0	100.0		Dominant	100.0	yes		3
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		10

Undertakings in the scope of the group

Country	Identification code of the undertaking	Type of code of the ID of the undertaking	Legal name of undertaking	Type of undertaking ¹	Legal form	Category (mutual/non-mutual) ²
DE	LEI/5299009SCZ5KELNSAG40	LEI	K & P Objekt Hamburg Hamburger Straße KG	10	GmbH & Co. KG	2
DE	LEI/529900PP7VBLQ6T63B78	LEI	K & P Objekt München Hufelandstraße GmbH	10	GmbH	2
DE	LEI/5299008BDDKMJ4G39479	LEI	K&P Pflegezentrum Uelzen Renditefonds GmbH & Co. KG	10	GmbH & Co. KG	2
DE	LEI/529900OK36X9ZY0OV619	LEI	KA Köln.Assekuranz Agentur GmbH	10	GmbH	2
RU	LEI/529900NC9S3RKJQQRV02	LEI	Kapdom Invest GmbH	10	obschestvo s ogranit	2
DE	LEI/529900PFE7K0QKIT9E07	LEI	KarstadtQuelle Finanz Service GmbH	10	GmbH	2
ZA	SC/LEI/529900MUF4C20K50JS49/ZA/10394	Specific	King Price Financial Services (PYT) Ltd.	5	Private/Proprietary Co	2
DE	LEI/5299004DQHWQOC6LX718	LEI	KQV Solarpark 1 GmbH & Co.KG	10	GmbH & Co. KG	2
GB	LEI/529900LLW2QG38G78884	LEI	KS SPV 23 Limited	10	Private limited company	2
BE	LEI/529900GDSOMT7K4ZIS60	LEI	Kuik & Partners Credit Management BVBA	10	Besl.ven.n.m.bep. Aansp	2
NL	LEI/529900NDJW8W9SDSX32	LEI	Landelijke Associatie van Gerechtsdeurwaarders	10	Besloten Vennootscha	2
DE	LEI/391200017FPMPRYX7B40	LEI	Larus Vermögensverwaltungsges. mbH	10	GmbH	2
GB	SC/LEI/529900MUF4C20K50JS49/GB/52045	Specific	Law On The Web Limited	10	Private limited company	2
GB	SC/LEI/529900MUF4C20K50JS49/GB/52053	Specific	LawAssist Limited	10	Private limited company	2
DE	LEI/529900EK6TJSJ5O5BJH16	LEI	LCM Logistic Center Management GmbH	10	GmbH	2
DE	LEI/529900WE3GAWIQ2MOD86	LEI	Legal Net GmbH	10	GmbH	2
NL	LEI/529900KT04IM3H3S5I09	LEI	Leggle B.V., Amsterdam	10	Besloten Vennootscha	2
DE	LEI/529900C5NLONQIQ6QD33	LEI	LEGIAG AG	10	Aktiengesellschaft	2
DE	LEI/39120001NWO1HJVJXR37	LEI	Lietuva Demetra GmbH	10	Aktiengesellschaft	2
US	LEI/549300L1RYLCEZLIRE78	LEI	LifePlans Inc.	10	Business corporation	2
CA	LEI/549300SVMLW0KQ52P964	LEI	LifePlans LTC Services	10	Corporation	2
GB	SC/LEI/529900MUF4C20K50JS49/GB/52020	Specific	Limited 80e	10	Private limited company	2
US	LEI/549300MPUZ03XA1UND03	LEI	Lloyds Modern Corporation	10	Business corporation	2
DE	LEI/529900M4FIG3F389A961	LEI	Longial GmbH	10	GmbH	2
GB	SC/LEI/529900MUF4C20K50JS49/GB/10384	Specific	Lynt Farm Solar Limited	10	Private limited company	2
IT	LEI/529900FBKGWDDJVAR545	LEI	m:editerran Power S.a.s. di welivit Solar Italia S.r.l.	10	Soc.a Responsab. Lim.	2
ES	LEI/959800QXU50QYJWN5C57	LEI	MAGAZ FOTOVOLTAICA S.L.U.	10	Sociedad Limitada	2
DE	LEI/39120001WVCGETGDTY97	LEI	MAM Munich Asset Management GmbH	10	GmbH	2
NL	LEI/529900EG1IYONEN0W603	LEI	Mandaat B.V.	10	Besloten Vennootscha	2
US	LEI/549300A73O4N6M720W61	LEI	Marbury Agency, Inc.	10	Business corporation	2
GB	LEI/213800HY4N747Z7WNP82	LEI	Marchwood Power Limited	10	Private limited company	2

	Supervisory Authority	% capital share	% used for the establishment of consolidated accounts	% voting rights	Other criteria	Criteria of influence		Inclusion in scope of Group supervision		Group solvency calculation
						Level of influence	Proportional share used for Group solvency calculation	Yes/no	Date of decision if Art. 214 is applied	Method used and, under Method 1, treatment of the undertaking ³
		36.7	36.7	36.7		Dominant	36.7	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		10
		84.8	84.8	84.8		Dominant	84.8	yes		3
		100.0	100.0	100.0		Dominant	100.0	yes		3
		100.0	100.0	100.0		Dominant	100.0	yes		1
		50.0	50.0	50.0		Significant	50.0	yes		3
		15.0	15.0	15.0		Significant	15	yes		3
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		1
		98.9	50.4	98.9		Dominant	50.4	yes		10
		89.8	45.8	49.0		Dominant	100.0	yes		1
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		10
		50.0	50.0	50.0		Significant	50.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	51.0	100.0		Dominant	51.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		3
		100.0	100.0	100.0		Dominant	100.0	yes		1
		100.0	100.0	100.0		Dominant	100	yes		3
		100.0	100.0	100.0		Dominant	100.0	yes		3
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	100.0	100.0		Dominant	100	yes		3
		100.0	100.0	100.0		Dominant	100.0	yes		3
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		1
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	43.8	100.0		Dominant	43.8	yes		3
		100.0	100.0	100.0		Dominant	100	yes		10
		50.0	50.0	50.0		Significant	50.0	yes		3

Undertakings in the scope of the group

Country	Identification code of the undertaking	Type of code of the ID of the undertaking	Legal name of undertaking	Type of undertaking ¹	Legal form	Category (mutual/non-mutual) ²
ES	LEI/959800KY19VUHH7CF489	LEI	Marina Salud	99	Sociedad anónima	2
PL	LEI/259400HQS1YTSS46QI37	LEI	Marina Sp. Z o.o.	10	SP.z.o.o.	2
DE	LEI/529900FZ483SPZS0GL40	LEI	MAYFAIR Financing GmbH, Düsseldorf	10	GmbH	2
DE	SC/LEI/529900MUF4C20K50JS49/DE/50039	Specific	MAYFAIR Holding GmbH & Co. Singapur KG i. L., Düsseldorf	10	GmbH & Co. KG	2
DE	LEI/5299002DW1CW0Y5GDQ71	LEI	MAYFAIR Holding GmbH i. L., Düsseldorf	10	GmbH	2
DE	LEI/5299009VFYRF10VDQ794	LEI	MCAF Management GmbH i. L.	10	GmbH	2
DE	LEI/5299005JWSITLXB82Z06	LEI	MCAF Verwaltungs GmbH & Co. KG i. L.	10	GmbH & Co. KG	2
DE	SC/LEI/529900MUF4C20K50JS49/DE/91128	Specific	MEAG ANGLO CELTIC Fund	99	Segregated fund	2
DE	SC/LEI/529900MUF4C20K50JS49/DE/91145	Specific	MEAG ATLAS	99	Segregated fund	2
DE	LEI/52990076HN6QM4JWVL09	LEI	MEAG Benedict	99	Segregated fund	2
DE	LEI/529900KMH13K8Z7VN302	LEI	MEAG Cash Management GmbH	10	GmbH	2
DE	SC/LEI/529900MUF4C20K50JS49/DE/91254	Specific	MEAG Dividende (A+I Tranche)	99	Mutual fund	2
DE	SC/LEI/529900MUF4C20K50JS49/DE/91238	Specific	MEAG EDK Quantum	99	Segregated fund	2
DE	SC/LEI/529900MUF4C20K50JS49/DE/91152	Specific	MEAG EDS AGIL	99	Segregated fund	2
DE	SC/LEI/529900MUF4C20K50JS49/DE/91252	Specific	MEAG EmergingMarkets Rent (A+I Tranche)	99	Mutual fund	2
DE	SC/LEI/529900MUF4C20K50JS49/DE/91220	Specific	MEAG ERGO Belgium Equities	99	Segregated fund	2
DE	SC/LEI/529900MUF4C20K50JS49/DE/91196	Specific	MEAG ESUS 1	99	Segregated fund	2
DE	LEI/5299003CLBWJ7JMW1W92	LEI	MEAG EUR Global 1	99	Segregated fund	2
DE	SC/LEI/529900MUF4C20K50JS49/DE/91076	Specific	MEAG Euro 1	99	Segregated fund	2
DE	SC/LEI/529900MUF4C20K50JS49/DE/91077	Specific	MEAG Euro 2	99	Segregated fund	2
DE	LEI/5299005ALZZBY64N1K88	LEI	MEAG EURO-FONDS	99	Segregated fund	2
DE	SC/LEI/529900MUF4C20K50JS49/DE/91125	Specific	MEAG Europ. PO	99	Segregated fund	2
DE	SC/LEI/529900MUF4C20K50JS49/DE/91020	Specific	Meag Eurostar	99	Segregated fund	2
DE	LEI/529900C8HMU3X4B71G77	LEI	MEAG EURO-Yield	99	Segregated fund	2
LU	SC/LEI/529900MUF4C20K50JS49/ LU/91199	Specific	MEAG FlexConcept - Basis	99	Fonds Public	2
DE	SC/LEI/529900MUF4C20K50JS49/DE/91235	Specific	MEAG FlexConcept - Eurobond	99	Segregated fund	2
LU	SC/LEI/529900MUF4C20K50JS49/ LU/91226	Specific	MEAG FlexConcept - EuroGrowth	99	Subfonds Inst.Fix.In	2
LU	SC/LEI/529900MUF4C20K50JS49/ LU/91200	Specific	MEAG FlexConcept - Wachstum	99	Fonds Public	2
DE	LEI/529900WCZRKTOHQVVM09	LEI	MEAG GBP-Global-STAR	99	Segregated fund	2
DE	SC/LEI/529900MUF4C20K50JS49/DE/91109	Specific	MEAG German Pr.	99	Segregated fund	2

Undertakings in the scope of the group

Country	Identification code of the undertaking	Type of code of the ID of the undertaking	Legal name of undertaking	Type of undertaking ¹	Legal form	Category (mutual/non-mutual) ²
DE	SC/LEI/529900MUF4C20K50JS49/DE/91251	Specific	MEAG GlobalRent (A+I Tranche)	99	Mutual fund	2
DE	SC/LEI/529900MUF4C20K50JS49/DE/91044	Specific	MEAG Golf 1	99	Segregated fund	2
DE	SC/LEI/529900MUF4C20K50JS49/DE/91120	Specific	MEAG GSS	99	Segregated fund	2
DE	SC/LEI/529900MUF4C20K50JS49/DE/91096	Specific	MEAG HBG 1	99	Segregated fund	2
DE	SC/LEI/529900MUF4C20K50JS49/DE/91130	Specific	MEAG HMR1	99	Segregated fund	2
DE	SC/LEI/529900MUF4C20K50JS49/DE/91081	Specific	MEAG HMR2	99	Segregated fund	2
HK	LEI/549300Z7RZCODQ04AC90	LEI	MEAG Hong Kong Limited	8	Business corporation	2
DE	SC/LEI/529900MUF4C20K50JS49/DE/91099	Specific	MEAG IREN	99	Segregated fund	2
DE	LEI/529900MT53EFBOTJ3L85	LEI	MEAG Janus	99	Segregated fund	2
DE	SC/LEI/529900MUF4C20K50JS49/DE/91045	Specific	MEAG Kapital 2	99	Segregated fund	2
DE	SC/LEI/529900MUF4C20K50JS49/DE/91068	Specific	MEAG Kapital 5	99	Segregated fund	2
DE	SC/LEI/529900MUF4C20K50JS49/DE/91113	Specific	Meag KQVL Currygov	99	Segregated fund	2
DE	SC/LEI/529900MUF4C20K50JS49/DE/91105	Specific	MEAG KQVL EuroValue	99	Segregated fund	2
DE	LEI/5299002TTEFL1LQV7I67	LEI	MEAG Lambda EUR	99	Segregated fund	2
DE	LEI/529900TZ33XB3U3RNU35	LEI	MEAG Lambda EUR EM Local	99	Segregated fund	2
DE	LEI/5299001LNO3AYWTH0Y39	LEI	MEAG Lambda GBP	99	Segregated fund	2
DE	LEI/529900B6CPDIOCCHD308	LEI	MEAG Lambda USD	99	Segregated fund	2
LU	LEI/5299004WRHIBDKHAPQ37	LEI	MEAG Luxembourg	8	Société a Responsabi	2
DE	SC/LEI/529900MUF4C20K50JS49/DE/91230	Specific	MEAG Multi Life	99	Segregated fund	2
DE	SC/LEI/529900MUF4C20K50JS49/DE/91122	Specific	MEAG Multi Sach 1	99	Segregated fund	2
DE	LEI/5299002M3PV07NR8CC24	LEI	MEAG Munich ERGO Asset Management	8	GmbH	2
DE	LEI/529900UCDILVT7W16S55	LEI	MEAG MUNICH ERGO KAG (formerly ME Real Estate)	8	GmbH	2
DE	LEI/529900YMFHKQ4TRT5J73	LEI	MEAG Munich Re Placemant	99	Segregated fund	2
US	LEI/549300GYV8QB0BYJ6239	LEI	MEAG New York Corporation	8	Business corporation	2
DE	LEI/529900MRISYDCBX6ED54	LEI	MEAG Osteuropa A	99	Mutual fund	2
HK	LEI/529900YO7UV8B3F9SM50	LEI	MEAG Pacific Star Holdings,	10	Private Company LbS	2
DE	LEI/5299007O6SRQ9TDJPT27	LEI	MEAG PEGASUS	99	Segregated fund	2
DE	SC/LEI/529900MUF4C20K50JS49/DE/91116	Specific	MEAG PensRent	99	Segregated fund	2

	Supervisory Authority	% capital share	% used for the establishment of consolidated accounts	% voting rights	Other criteria	Criteria of influence		Inclusion in scope of Group supervision		Group solvency calculation
						Level of influence	Proportional share used for Group solvency calculation	Yes/no	Date of decision if Art. 214 is applied	Method used and, under Method 1, treatment of the undertaking ³
		99.6	99.6	0.0		Dominant	99.6	yes		3
		100.0	100.0	0.0		Dominant	100.0	yes		3
		36.7	36.7	0.0		Significant	36.7	yes		3
		100.0	100.0	0.0		Dominant	100.0	yes		3
		100.0	100.0	0.0		Dominant	100.0	yes		3
		100.0	100.0	0.0		Dominant	100.0	yes		3
	Hong Kong Securities and Futures Commission	100.0	100.0	100.0		Dominant	100.0	yes		4
		100.0	100.0	0.0		Dominant	100.0	yes		3
		100.0	100.0	0.0		Dominant	100.0	yes		3
		100.0	100.0	0.0		Dominant	100.0	yes		3
		100.0	100.0	0.0		Dominant	100.0	yes		3
		100.0	100.0	0.0		Dominant	100.0	yes		3
		100.0	100.0	0.0		Dominant	100.0	yes		3
		100.0	100.0	0.0		Dominant	100.0	yes		3
		100.0	100.0	0.0		Dominant	100.0	yes		3
	Commission de Surveillance du Secteur Financier (CSSF)	100.0	100.0	100.0		Dominant	100.0	yes		4
		100.0	100.0	0.0		Dominant	100.0	yes		3
		100.0	100.0	0.0		Dominant	100.0	yes		3
		100.0	100.0	100.0		Dominant	100.0	yes		4
	Bundesanstalt für Finanzdienstleistungsaufsicht (BaFin)	100.0	100.0	100.0		Dominant	100.0	yes		4
		100.0	100.0	0.0		Dominant	100.0	yes		3
	U.S. Securities and Exchange Commission	100.0	100.0	100.0		Dominant	100	yes		4
		40.5	40.5	0.0		Dominant	40.5	yes		3
		50.0	50.0	50.0		Significant	50.0	yes		3
		100.0	100.0	0.0		Dominant	100.0	yes		3
		29.9	29.9	0.0		Dominant	29.9	yes		3

Undertakings in the scope of the group

Country	Identification code of the undertaking	Type of code of the ID of the undertaking	Legal name of undertaking	Type of undertaking ¹	Legal form	Category (mutual/non-mutual) ²
DE	SC/LEI/529900MUF4C20K50JS49/DE/91117	Specific	MEAG PensSafe	99	Segregated fund	2
DE	LEI/529900LGDKFRBZXXCF02	LEI	MEAG PK-NORD	99	Segregated fund	2
DE	LEI/529900HD8WZX6V9PGV12	LEI	MEAG PK-WEST	99	Segregated fund	2
DE	SC/LEI/529900MUF4C20K50JS49/DE/91197	Specific	MEAG Premium	99	Segregated fund	2
DE	SC/LEI/529900MUF4C20K50JS49/DE/56099	Specific	MEAG Prof III Beteiligungsgesellschaft mbH	10	GmbH	2
DE	SC/LEI/529900MUF4C20K50JS49/DE/91193	Specific	MEAG Property Fund I	99	Segregated fund	2
DE	SC/LEI/529900MUF4C20K50JS49/DE/91195	Specific	MEAG Property Fund III	99	Segregated fund	2
DE	LEI/529900Z944EB0JVQYS73	LEI	MEAG Real Estate Erste Beteiligungsgesellschaft, München	10	GmbH	2
DE	LEI/5299000ILHVJ281ARP09	LEI	MEAG RealReturn Inhaber-Anteile A	99	Mutual fund	2
DE	SC/LEI/529900MUF4C20K50JS49/DE/91127	Specific	MEAG RenditePlus	99	Segregated fund	2
DE	SC/LEI/529900MUF4C20K50JS49/DE/91124	Specific	MEAG REVO	99	Segregated fund	2
DE	SC/LEI/529900MUF4C20K50JS49/DE/91063	Specific	MEAG SAG 1	99	Segregated fund	2
DE	SC/LEI/529900MUF4C20K50JS49/DE/91249	Specific	MEAG Short-Term High Yield	99	Segregated fund	2
DE	LEI/529900H2Y4Q1A46JUA98	LEI	MEAG Tandem	99	Segregated fund	2
DE	SC/LEI/529900MUF4C20K50JS49/DE/91239	Specific	MEAG USD Fonds	99	Segregated fund	2
DE	LEI/529900K4R4IUHYFMFU05	LEI	MEAG Venus	99	Segregated fund	2
DE	LEI/529900OFQFF7VJRCA745	LEI	MEAG Vermögensanlage Komfort	99	Mutual fund	2
DE	SC/LEI/529900MUF4C20K50JS49/DE/91253	Specific	MEAG Vermögensanlage Return (A+I Tranche)	99	Mutual fund	2
DE	SC/LEI/529900MUF4C20K50JS49/DE/91052	Specific	MEAG Vidas Rent 3	99	Segregated fund	2
DE	SC/LEI/529900MUF4C20K50JS49/DE/91103	Specific	MEAG Vigifonds	99	Segregated fund	2
DE	SC/LEI/529900MUF4C20K50JS49/DE/91043	Specific	MEAG VLA	99	Segregated fund	2
DE	LEI/529900UTOQZS6ZEBNV89	LEI	Mediastream Consulting GmbH, Grünwald	10	GmbH	2
DE	LEI/529900HEM2I20ECNWK82	LEI	Mediastream Dritte Film GmbH i. L., Munich	10	GmbH	2
DE	LEI/52990078MU6FJRY7064	LEI	Mediastream Film AG, Düsseldorf	10	GmbH	2
DE	LEI/529900AW8C9UN6T0QP24	LEI	Mediastream Zweite Film GmbH, Munich	10	GmbH	2
DE	LEI/5299007ZHUSGAJRMWH73	LEI	MEDICLIN AG	10	Aktiengesellschaft	2
BH	LEI/52990056PIJDUSRF552	LEI	MedNet Bahrain W.L.L.	10	The With Ltd Liab.Co	2
EG	SC/LEI/529900MUF4C20K50JS49/EG/10372	Specific	MedNet Egypt LLC	10	LLC	2
DE	LEI/529900JYRQ70PG68QR62	LEI	MedNet Europa GmbH, München	10	GmbH	2
AE	SC/LEI/529900MUF4C20K50JS49/AE/10814	Specific	MedNet Global Healthcare Solutions LLC	10	Limited liability company	2

Undertakings in the scope of the group

Country	Identification code of the undertaking	Type of code of the ID of the undertaking	Legal name of undertaking	Type of undertaking ¹	Legal form	Category (mutual/non-mutual) ²
GR	LEI/529900ZPRXAYAWDLEG62	LEI	MedNet Greece S.A.	10	Anonymos Eteria	2
DE	LEI/52990062SNNGIFY2Z991	LEI	MedNet Holding GmbH, Munich	10	GmbH	2
CY	LEI/529900Z6JCLNPNHJI984	LEI	MedNet International Ltd.	10	GmbH	2
JO	LEI/529900IGTKVAXQ775F81	LEI	MedNet Jordan Co. W.L.L.	10	GmbH	2
SA	SC/LEI/529900MUF4C20K50JS49/SA/10197	Specific	MedNet Saudi Arabia	10	GmbH	2
AE	LEI/529900PTUVJ9DGVQF88	LEI	MedNet UAE FZ LLC	10	Limited liability company	2
DE	LEI/529900506UO48VYB5U83	LEI	MedWell Gesundheits-AG, Cologne	10	Aktiengesellschaft	2
DE	SC/LEI/529900MUF4C20K50JS49/DE/58143	Specific	MEGA 4 GbR	10	Gesellschaft bR	2
DE	SC/LEI/529900MUF4C20K50JS49/DE/66246	Specific	MEGA 4 Management GmbH i. L.	10	GmbH	2
AT	SC/LEI/529900MUF4C20K50JS49/AT/91227	Specific	MEINL ATX FONDS T	99	Mutual fund	2
AT	SC/LEI/529900MUF4C20K50JS49/AT/91198	Specific	Meinl Equity Austria A	99	Segregated fund	2
DE	LEI/529900RRAAIQPDGMVY22	LEI	Merkur Grundstücks- und Beteiligungs-Ges	10	GmbH	2
US	LEI/5493007XD8CX7MQGOV89	LEI	Meshify, Inc., Houston	10	Business corporation	2
MT	LEI/529900EJ60QTVISPO015	LEI	MFI Munich Finance and Investment Holding Ltd	10	Limited liability company	2
MT	LEI/529900QIGJMVZKJSLI97	LEI	MFI Munich Finance and Investment Ltd	10	Limited liability company	2
DE	LEI/529900DGK1ZJSA8YAS31	LEI	miCura Pflegedienste	10	GmbH	2
DE	LEI/529900HXG5ZCPH4CL512	LEI	miCura Pflegedienste Berlin	10	GmbH	2
DE	LEI/529900VJ60FB4WS4W102	LEI	miCura Pflegedienste Bremen GmbH	10	GmbH	2
DE	LEI/529900JVK8UW3T2KB297	LEI	miCura Pflegedienste Dachau GmbH	10	GmbH	2
DE	LEI/529900KC5RPTCWGIS588	LEI	miCura Pflegedienste Düsseldorf GmbH	10	GmbH	2
DE	LEI/529900L7DGAAPVY8L458	LEI	miCura Pflegedienste GmbH	10	GmbH	2
DE	LEI/5299009FRS9EJKHE1W35	LEI	miCura Pflegedienste Hamburg GmbH	10	GmbH	2
DE	LEI/529900Y4J4C10Z4UZ95	LEI	miCura Pflegedienste Krefeld GmbH	10	GmbH	2
DE	LEI/529900KZF9U0Y3L92655	LEI	miCura Pflegedienste München Ost GmbH	10	GmbH	2
DE	LEI/529900WVPO6QGL1I7G24	LEI	miCura Pflegedienste Münster GmbH	10	GmbH	2
DE	LEI/529900OKCWP4JDYS8172	LEI	miCura Pflegezentrale München GmbH	10	GmbH	2
US	LEI/5493006LTYZJFYEQ745	LEI	Midland-Guardian Co.	5	Business corporation	2
US	LEI/54930060IG29SI27EC66	LEI	Midwest Enterprises, Inc.	10	Business corporation	2
DE	LEI/39120001GWUDQZEY1X54	LEI	MR Beteiligungen 1. GmbH	10	GmbH	2
DE	LEI/39120001XCVA91XBS35	LEI	MR Beteiligungen 15. GmbH	10	GmbH	2
DE	LEI/39120001OJNZKBEEZ36	LEI	MR Beteiligungen 16. GmbH	10	GmbH	2
DE	LEI/391200PBDDWENXYOH119	LEI	MR Beteiligungen 17. GmbH	10	GmbH	2
DE	LEI/39120001BGQ7BNGFBV17	LEI	MR Beteiligungen 18. GmbH	10	GmbH	2

Undertakings in the scope of the group

Country	Identification code of the undertaking	Type of code of the ID of the undertaking	Legal name of undertaking	Type of undertaking ¹	Legal form	Category (mutual/non-mutual) ²
DE	LEI/39120001808GMNGZGQ79	LEI	MR Beteiligungen 18. GmbH & Co. Immobilien KG i.G.	10	GmbH & Co. KG	2
DE	LEI/39120001VRP3N9EG7Y96	LEI	MR Beteiligungen 19. GmbH	10	GmbH	2
DE	LEI/391200010KKQP2YFI368	LEI	MR Beteiligungen 2. EUR AG & Co. KG	10	AG & Co. KG	2
DE	LEI/39120001KILQFR4KUU86	LEI	MR Beteiligungen 3. EUR AG & Co. KG	10	AG & Co. KG	2
DE	LEI/39120001ATKYXXQ8LY53	LEI	MR Beteiligungen AG	10	Aktiengesellschaft	2
DE	LEI/391200011ZEQ13TB1914	LEI	MR Beteiligungen EUR AG & Co. KG	10	AG & Co. KG	2
DE	LEI/39120001WEY9JSYGPK54	LEI	MR Beteiligungen GBP AG & Co. KG	10	AG & Co. KG	2
DE	LEI/39120001MGCBTUNCGF98	LEI	MR Beteiligungen USD AG & Co. KG	10	AG & Co. KG	2
US	SC/LEI/529900MUF4C20K50JS49/US/22011	Specific	MR Digital Innovation Partners Insurance Agency, LLC	99	Business corporation	2
DE	LEI/39120001SM6Q7Q8UZNO4	LEI	MR ERGO Beteiligungen GmbH	8	GmbH	2
DE	LEI/39120001LRYDBL4DIX43	LEI	MR Financial Group GmbH	10	GmbH	2
DE	LEI/391200LACMSR66BYMZ43	LEI	MR Forest GmbH, Munich	10	GmbH	2
DE	LEI/39120001DLPY5QXPYX29	LEI	MR Infrastructure Investment GmbH	10	GmbH	2
US	LEI/549300OHMATNMIMO6X93	LEI	MR Infrastructure, Inc.	11	Business corporation	2
US	SC/LEI/529900MUF4C20K50JS49/US/12794	Specific	MR Investment Inc.	8	Business corporation	2
GB	LEI/2138007PE4IRBI7SL147	LEI	MR RENT UK Investment Limited	10	Private limited company	2
DE	LEI/3912000173QTON9PAM86	LEI	MR RENT-Investment GmbH	10	GmbH	2
DE	LEI/39120001XNXTQQ1TQC32	LEI	MR RENT-Management GmbH	10	GmbH	2
DE	SC/LEI/529900MUF4C20K50JS49/DE/10172	Specific	MR Solar Beneixama GmbH	10	GmbH	2
DE	LEI/529900OYM0YFWK1BYX71	LEI	MR Solar GmbH & Co.KG	10	GmbH & Co. KG	2
IT	LEI/529900C68UYG88QC1938	LEI	MR SOLAR SAS DER WELIVIT SOLAR ITALIA SRL	10	Soc.a Responsab. Lim.	2
GB	SC/LEI/529900MUF4C20K50JS49/GB/20024	Specific	MRHCUK Dormant No.1 Limited	99	Private limited company	2
GB	LEI/213800317W9U9XNTVN39	LEI	MSP Underwriting Ltd	5	Private limited company	2
DE	LEI/9695004H93GH5DH3QX91	LEI	MU068 MR Placem (FCP)	99	Segregated fund	2
MX	SC/LEI/529900MUF4C20K50JS49/MX/26006	Specific	Muenchener de Mexico, S.A.	10	Sociedad Anonima	2
AR	SC/391200GXJSC8VFL03L02	Specific	Münchener Argentina Servicios Técnicos	10	Soc.de respons.limit	2
CL	LEI/9598006V5U7LNGU0RW23	LEI	Münchener Consultora Internacional	10	Sociedad de Resp.Ltd	2
VE	LEI/213800NLR23J8X27O981	LEI	Münchener de Venezuela, C.A.	10	Sociedad Anonima	2
DE	LEI/39120001L2OAJEPANS21	LEI	Münchener Finanzgruppe AG Beteiligungen	10	Aktiengesellschaft	2
DE	LEI/529900MUF4C20K50JS49	LEI	Münchener Rückversicherungs-Gesellschaft AG	3	Aktiengesellschaft	2
DE	LEI/39120001Z5AF1TAWEF29	LEI	Münchener Vermögensverwaltung GmbH	10	GmbH	2

	Supervisory Authority	% capital share	% used for the establishment of consolidated accounts	% voting rights	Other criteria	Criteria of influence		Inclusion in scope of Group supervision		Group solvency calculation
						Level of influence	Proportional share used for Group solvency calculation	Yes/no	Date of decision if Art. 214 is applied	Method used and, under Method 1, treatment of the undertaking ³
		100.0	100.0	100.0		Dominant	100.0	yes		1
		100.0	100.0	100.0		Dominant	100.0	yes		1
		100.0	100.0	100.0		Dominant	100.0	yes		1
		100.0	100.0	100.0		Dominant	100.0	yes		1
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		1
		100.0	100.0	100.0		Dominant	100.0	yes		1
		100.0	100.0	100.0		Dominant	100.0	yes		1
		0.0	0.0	100.0		Dominant	0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		4
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		1
		100.0	100.0	100.0		Dominant	100	yes		4
		100.0	100.0	100.0		Dominant	100	yes		4
		100.0	100.0	100.0		Dominant	100.0	yes		1
		100.0	100.0	100.0		Dominant	100.0	yes		1
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		1
		100.0	100.0	100.0		Dominant	100.0	yes		3
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	100.0	100.0		Dominant	100	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		10
	Bundesanstalt für Finanzdienstleistungs- aufsicht (BaFin)	100.0	100.0	100.0		Dominant	100.0	yes		1
		100.0	100.0	100.0		Dominant	100.0	yes		10

Undertakings in the scope of the group

Country	Identification code of the undertaking	Type of code of the ID of the undertaking	Legal name of undertaking	Type of undertaking ¹	Legal form	Category (mutual/non-mutual) ²
BR	SC/LEI/529900MUF4C20K50JS49/BR/10366	Specific	Münchener, ESCRITÓRIO DE REPRESENTAÇÃO DO BRASIL LTDA	10	Sociedade Anonima	2
US	LEI/5493008IKPBNR8EIQH39	LEI	Munich American Holding Corporation	6	Business corporation	2
US	LEI/549300Q72FKJO67OE921	LEI	Munich American Life Reinsurance Company	3	Business corporation	2
US	LEI/549300MKW8R09C045D07	LEI	Munich American Reassurance Company	3	Business corporation	2
US	SC/LEI/529900MUF4C20K50JS49/US/12779	Specific	Munich American Reassurance Company PAC	99	Business corporation	2
US	LEI/549300ZUTE5NMQ6ECZ13	LEI	Munich Atlanta Financial Corporation	10	Business corporation	2
CA	LEI/549300V8R0Y05OPQ7M85	LEI	Munich Canada Systems Corporation	10	Corporation	2
US	LEI/54930044BRRARMYFR63	LEI	Munich Colombia Square Corp.	10	Business corporation	2
DE	LEI/39120001QTOWXEHUZW64	LEI	Munich Health Alpha GmbH	10	GmbH	2
AE	SC/LEI/529900MUF4C20K50JS49/AE/10218	Specific	Munich Health Daman Holding	5	Public limited by Shares	2
DE	LEI/39120001S9WBIPKOHE13	LEI	Munich Health Holding AG	5	Aktiengesellschaft	2
US	LEI/549300IGGX51RG3F5A03	LEI	Munich Health North America, Inc.	5	Business corporation	2
CA	LEI/549300C06PNU1TUR4E70	LEI	Munich Holdings Limited	5	Corporation	2
AU	LEI/261700W0B2RGP6571Y13	LEI	Munich Holdings of Australia Pty. Ltd.	6	Proprietary Ltd Company	2
CA	LEI/529900WT5DKEL0WCJP34	LEI	Munich Life Management Corp. Ltd.	10	Corporation	2
SG	SC/LEI/529900MUF4C20K50JS49/SG/26010	Specific	Munich Management Pte. Ltd.	10	Private company limited by shares	2
MU	SC/LEI/529900MUF4C20K50JS49/MU/28017	Specific	Munich Mauritius Reinsurance Co. Ltd.	4	International Business corporation	2
US	LEI/549300NDDKW5G2O7IR05	LEI	Munich Re America Brokers, Inc.	10	Business corporation	2
US	LEI/5493000NTMGI8RSQK217	LEI	Munich Re America Corporation	5	Business corporation	2
GB	LEI/549300WY4YBLCJ665R79	LEI	Munich Re America Management Ltd., London	10	Incorporated company	2
US	LEI/5493001MXIHFQXOERW68	LEI	Munich Re America Services, Inc.	10	Business corporation	2
DE	LEI/213800H31MDE114N9B91	LEI	Munich Re Automation Solutions GmbH	10	GmbH	2
US	LEI/213800XVXN7IEP3HHT67	LEI	Munich Re Automation Solutions Inc.	10	Business corporation	2
JP	LEI/213800DWEY9RAKD5JZ41	LEI	Munich Re Automation Solutions KK	10	Kabushiki Kaisha	2
IE	LEI/213800HHNOQSRMXNCU36	LEI	Munich Re Automation Solutions Limited	10	Limited liability company	2
SG	LEI/213800AA9WU54TQWU380	LEI	Munich Re Automation Solutions Pte. Ltd.	10	Private company limited by shares	2
AU	LEI/2138008896QCOO9VY484	LEI	Munich Re Automation Solutions Pty Limited	10	Proprietary Ltd Company	2

Supervisory Authority	% capital share	% used for the establishment of consolidated accounts	% voting rights	Other criteria	Criteria of influence		Inclusion in scope of Group supervision		Group solvency calculation
					Level of influence	Proportional share used for Group solvency calculation	Yes/no	Date of decision if Art. 214 is applied	Method used and, under Method 1, treatment of the undertaking ³
	100.0	100.0	100.0		Dominant	100.0	yes		10
	100.0	100.0	100.0		Dominant	100.0	yes		1
The Georgia Department of Insurance	100.0	100.0	100.0		Dominant	100	yes		1
The Georgia Department of Insurance	100.0	100.0	100.0		Dominant	100.0	yes		1
	0.0	0.0	0.0	SPV, pre-emption right, exercise sale option	Dominant	0	yes		10
	100.0	100.0	100.0		Dominant	100	yes		3
	100.0	100.0	100.0		Dominant	100.0	yes		10
	100.0	100.0	100.0		Dominant	100.0	yes		10
	100.0	100.0	100.0		Dominant	100.0	yes		1
	51.0	51.0	51.0		Dominant	51.0	yes		3
	100.0	100.0	100.0		Dominant	100.0	yes		1
	100.0	100.0	100.0		Dominant	100	yes		1
	100.0	100.0	100.0		Dominant	100.0	yes		1
	100.0	100.0	100.0		Dominant	100.0	yes		1
	100.0	100.0	100.0		Dominant	100.0	yes		3
	100.0	100.0	100.0		Dominant	100.0	yes		10
Financial Services Commission (FSC)	100.0	100.0	100.0		Dominant	100.0	yes		1
Insurance Department of the State of New York	100.0	100.0	100.0		Dominant	100.0	yes		10
	100.0	100.0	100.0		Dominant	100.0	yes		1
	100.0	100.0	100.0		Dominant	100.0	yes		10
	100.0	100.0	100.0		Dominant	100	yes		1
	100.0	100.0	100.0		Dominant	100.0	yes		10
	100.0	100.0	100.0		Dominant	100.0	yes		10
	100.0	100.0	100.0		Dominant	100.0	yes		10
	100.0	100.0	100.0		Dominant	100.0	yes		3
	100.0	100.0	100.0		Dominant	100.0	yes		10
	100.0	100.0	100.0		Dominant	100.0	yes		10

Undertakings in the scope of the group

Country	Identification code of the undertaking	Type of code of the ID of the undertaking	Legal name of undertaking	Type of undertaking ¹	Legal form	Category (mutual/non-mutual) ²
GB	LEI/21380012PFTS5AWP2310	LEI	Munich Re Capital Limited	2	Private limited company	2
DE	LEI/529900LVLCVUBV7NOI75	LEI	Munich Re Capital Markets GmbH	8	GmbH	2
CA	LEI/549300TJ7HNZG7OI6S41	LEI	Munich Re Company of Canada	3	Corporation	2
GB	SC/LEI/529900MUF4C20K50JS49/GB/10396	Specific	Munich Re Digital Partners Limited	99	Private limited company	2
US	SC/5493000J0MSQTA30FI44	Specific	Munich Re Digital Partners US Holding Corporation	99	Business corporation	2
BR	LEI/391200L6TADEO9SLD581	LEI	Munich Re do Brasil Resseguradora S.A.	4	Sociedade Anonima	2
GB	LEI/2138009EZ5GGI9J6JL60	LEI	Munich Re Holdings Company (UK) Ltd.	6	Private limited company	2
IN	LEI/335800BKNCCI9U3YFC61	LEI	Munich Re India Services Private Limited	10	Private Limited	2
JP	LEI/353800019IKNOPRSUW06	LEI	Munich Re Japan Services K.K.	10	Kabushiki Kaisha	2
MT	LEI/529900AUL1UUUN0PWZ51	LEI	Munich Re of Malta Holding Limited	5	Limited liability company	2
MT	LEI/5299004V4S625766IJ96	LEI	Munich Re of Malta p.l.c.	3	Limited liability company	2
US	SC/LEI/529900MUF4C20K50JS49/US/12793	Specific	Munich Re Reserve Risk Financing	10	Business corporation	2
CA	SC/LEI/529900MUF4C20K50JS49/CA/10804	Specific	Munich Re Service Corp.	10	Corporation	2
US	LEI/5493001DFM7O7VPDGO53	LEI	Munich Re Stop Loss	10	Business corporation	2
HK	LEI/213800DIEICFNKUB4X87	LEI	Munich Re Syndicate Hong Kong Ltd.	10	Private company limited by shares	2
MY	LEI/2138002X3H5UHJMZY848	LEI	Munich Re Syndicate Labuan Limited	10	Private limited company	2
GB	LEI/529900OCG63Y1HQMZI14	LEI	Munich Re Syndicate Limited	10	Private limited company	2
AE	LEI/213800417XU41VJQD822	LEI	Munich Re Syndicate Middle East Ltd.	10	Private Limited	2
SG	LEI/213800W8BMV94CNLPI68	LEI	Munich Re Syndicate Singapore Ltd.	10	Private company limited by shares	2
US	LEI/RD672E7VR60YQE4BIJ69	LEI	Munich Re Trading LLC	8	Business corporation	2
GB	LEI/213800D6S7QZGHD3LS20	LEI	Munich Re UK Services Limited	10	Private limited company	2
AE	SC/LEI/529900MUF4C20K50JS49/AE/10210	Specific	Munich Re Underwriting Agents DIFC Limited	10	Public company limited by shares	2
US	SC/LEI/529900MUF4C20K50JS49/US/12788	Specific	Munich Re Weather & Commodity Risk Holding, Inc.	10	Business corporation	2
US	LEI/549300CMMHU26QXWVQ47	LEI	Munich Reinsurance America, Inc.	3	Business corporation	2
AU	LEI/261700B89YG4614FUA51	LEI	Munich Reinsurance Comp. Australasia	3	Proprietary Ltd company	2
ZA	LEI/213800LD4C4D71FDPU88	LEI	Munich Reinsurance Company of Africa Ltd	4	Private/Propriety Co	2

Supervisory Authority	% capital share	% used for the establishment of consolidated accounts	% voting rights	Other criteria	Criteria of influence		Inclusion in scope of Group supervision		Group solvency calculation
					Level of influence	Proportional share used for Group solvency calculation	Yes/no	Date of decision if Art. 214 is applied	Method used and, under Method 1, treatment of the undertaking ³
Prudential Regulatory Authority (PRA)	100.0	100.0	100.0		Dominant	100.0	yes		1
	100.0	100.0	100.0		Dominant	100.0	yes		4
Office of Superintendent of Financial Institutions (OSFI)	100.0	100.0	100.0		Dominant	100.0	yes		1
	100.0	100.0	100.0		Dominant	100.0	yes		10
	100.0	100.0	100.0		Dominant	100	yes		10
Superintendence of Private Insurance (SUSEP)	100.0	100.0	100.0		Dominant	100.0	yes		1
	100.0	100.0	100.0		Dominant	100.0	yes		1
	100.0	100.0	100.0		Dominant	100.0	yes		10
	100.0	100.0	100.0		Dominant	100.0	yes		10
	100.0	100.0	100.0		Dominant	100.0	yes		1
Malta Financial Services Authority (MFSA)	100.0	100.0	100.0		Dominant	100.0	yes		1
	100.0	100.0	100.0		Dominant	100	yes		1
No supervisory authority responsible	100.0	100.0	100.0		Dominant	100.0	yes		1
	100.0	100.0	100.0		Dominant	100	yes		1
	67.0	67.0	67.0		Dominant	67.0	yes		3
	100.0	100.0	100.0		Dominant	100.0	yes		3
	100.0	100.0	100.0		Dominant	100.0	yes		1
	100.0	100.0	100.0		Dominant	100.0	yes		3
	100.0	100.0	100.0		Dominant	100.0	yes		3
	100.0	100.0	100.0		Dominant	100	yes		4
	100.0	100.0	100.0		Dominant	100.0	yes		1
	100.0	100.0	100.0		Dominant	100.0	yes		10
	100.0	100.0	100.0		Dominant	100	yes		1
Insurance Department of the State of Delaware	100.0	100.0	100.0		Dominant	100	yes		1
Australian Prudential Regulation Authority (APRA)	100.0	100.0	100.0		Dominant	100.0	yes		1
Financial Services Board (FSB)	100.0	100.0	100.0		Dominant	100	yes		1

Undertakings in the scope of the group

Country	Identification code of the undertaking	Type of code of the ID of the undertaking	Legal name of undertaking	Type of undertaking ¹	Legal form	Category (mutual/non-mutual) ²
DE	SC/LEI/529900MUF4C20K50JS49/DE/10082	Specific	Munich-American RiskPartners GmbH	10	GmbH	2
CA	LEI/549300T1R2GX3K7Q6T15	LEI	Munich-Canada Management Corp.	10	Limited partnership	2
DE	LEI/39120001UYK1ULJGNA80	LEI	MunichFinancialGroup AG Holding	10	Aktiengesellschaft	2
DE	LEI/39120001FVSF4PKKSA11	LEI	MunichFinancialGroup GmbH	10	GmbH	2
DE	LEI/391200014IANPZD50P95	LEI	MunichFinancialServices AG	10	Aktiengesellschaft	2
GB	LEI/213800NERZJFAHPGNG30	LEI	Munichre General Services Ltd.	10	Private limited company	2
NZ	SC/213800CBVXWEI7BQWB92	Specific	Munichre New Zealand Service Limited	10	Proprietary Ltd Comp	2
HK	LEI/529900DVDA2GPD1P5R25	LEI	Munichre Service Limited, Hongkong	10	Private company limited by shares	2
GB	LEI/213800Z84Y7WVDE3N219	LEI	N.M.U. (Holdings) Limited	10	Private limited company	2
ES	LEI/52990062ONBOXQS8EP66	LEI	NARETOBLERA 170017, S.L.	10	Sociedad Limitada	2
DE	LEI/529900V2K6GHJG485616	LEI	Neckermann Versicherung AG	2	Aktiengesellschaft	2
ES	LEI/529900172N06IAT1VX95	LEI	NERRUZE 120012, S.L.	10	Sociedad Limitada	2
CH	LEI/HX9HSZR3BFOU9KUWD17	LEI	New Reinsurance Company Ltd.	3	Aktiengesellschaft	2
DE	SC/LEI/529900MUF4C20K50JS49/US/54801	Specific	nexible GmbH	10	GmbH	2
GB	SC/LEI/529900MUF4C20K50JS49/GB/52942	Specific	Nightingale Legal Services Ltd.	10	Private limited company	2
GB	LEI/213800V686D6YUPXKD52	LEI	NMU Group Limited	10	Private limited company	2
GB	LEI/2138001VLNJE4I52IA87	LEI	Northern Marine Underwriters Ltd.	10	Private limited company	2
DE	SC/LEI/529900MUF4C20K50JS49/DE/91072	Specific	OIK Mediclin	99	Segregated fund	2
US	SC/LEI/529900MUF4C20K50JS49/US/10299	Specific	ORM Timber Fund III (Foreign) LLC	99	Business corporation	2
US	SC/LEI/529900MUF4C20K50JS49/US/10812	Specific	ORM TIMBER FUND IV LLC, Wilmington	99	Business corporation	2
ES	LEI/529900NE9PP1RLU6ZV61	LEI	ORRAZIPO 110011, S.L.	10	Sociedad Limitada	2
DE	LEI/39120001OV0UOSHF6R35	LEI	P.A.N. Verwaltungs GmbH	10	GmbH	2
US	SC/LEI/529900MUF4C20K50JS49/US/10381	Specific	Pan Estates LLC	99	Business corporation	2
CH	LEI/3912000M1W6HCPOJ4C07	LEI	PERILS	10	Aktiengesellschaft	2
DE	LEI/529900S59JD7QHD18328	LEI	PLATINIA Verwaltungs-GmbH, Munich	10	GmbH	2
PL	SC/LEI/529900MUF4C20K50JS49/PL/60072	Specific	Pool Spolka z.o.o.w.	10	SP.z.o.o.	2
DE	SC/LEI/529900MUF4C20K50JS49/	Specific	PORT ELISABETH GmbH & Co. KG	10	GmbH & Co. KG	2
DE	SC/LEI/529900MUF4C20K50JS49/DE/66117	Specific	Port Louis GmbH & Co. KG	10	GmbH & Co. KG	2
US	LEI/549300YG3CVD0SJ1K445	LEI	Princeton Eagle West (Holding), Inc.	5	Business corporation	2
BM	LEI/549300BZUNQYQY377L84	LEI	Princeton Eagle West Insurance Co.Ltd.	2	Business corporation	2

	Supervisory Authority	% capital share	% used for the establishment of consolidated accounts	% voting rights	Other criteria	Criteria of influence		Inclusion in scope of Group supervision		Group solvency calculation
						Level of influence	Proportional share used for Group solvency calculation	Yes/no	Date of decision if Art. 214 is applied	Method used and, under Method 1, treatment of the undertaking ³
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		3
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		3
		100.0	100.0	100.0		Dominant	100.0	yes		1
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		1
		100.0	75.1	100.0		Dominant	75.1	yes		10
	Bundesanstalt für Finanzdienstleistungs- aufsicht (BaFin)	100.0	100.0	100.0		Dominant	100.0	yes		1
		100.0	75.1	100.0		Dominant	75.1	yes		10
	Finanzmarktaufsicht FINMA	100.0	100.0	100.0		Dominant	100.0	yes		1
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		3
		100.0	100.0	100.0		Dominant	100.0	yes		1
		100.0	100.0	100.0		Dominant	100.0	yes		1
		70.7	70.7	0.0		Dominant	70.7	yes		3
		39.1	39.1	39.1		Significant	39.1	yes		3
		26.7	26.7	26.7		Significant	26.7	yes		3
		100.0	75.1	100.0		Dominant	75.1	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		1
		10.0	10.0	10.0		Significant	10.0	yes		10
		100.0	50.1	100.0		Dominant	50.1	yes		10
		33.8	33.8	33.8		Significant	33.8	yes		10
		32.0	32.0	32.0		Significant	32.0	yes		10
		26.0	26.0	26.0		Significant	26.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		3
	Bermuda Monetary Authority (BMA)	100.0	100.0	100.0		Dominant	100.0	yes		3

Undertakings in the scope of the group

Country	Identification code of the undertaking	Type of code of the ID of the undertaking	Legal name of undertaking	Type of undertaking ¹	Legal form	Category (mutual/non-mutual) ²
UA	SC/LEI/529900MUF4C20K50JS49/UA/16047	Specific	Private Aktiengesellschaft Europäische Reisevers., Kiev	2	Joint stock company	2
PL	LEI/259400VKF6N44N5RSK48	LEI	ProContact Sp. Z o.o.	10	SP.z.o.o.	2
DE	LEI/529900AQ48E4RST3IH54	LEI	PRORENDITA Drei Verwaltungsgesellschaft mbH	10	GmbH	2
DE	LEI/52990085SZ6HNOCMYG15	LEI	PRORENDITA EINS Verwaltungsgesellschaft mbH	10	GmbH	2
DE	LEI/529900KENN6LH62B4695	LEI	PRORENDITA FÜNF Verwaltungsgesellschaft mbH	10	GmbH	2
DE	LEI/5299005MPOFYWETE4Q60	LEI	PRORENDITA VIER Verwaltungsgesellschaft mbH, Hamburg	10	GmbH	2
DE	LEI/529900LI4OVTU5X7JU84	LEI	PRORENDITA Zwei Verwaltungsgesellschaft mbH	10	GmbH	2
CU	SC/LEI/529900MUF4C20K50JS49/CU/10093	Specific	Reaseguradora de las Americas	10	Societat Anónima	2
DE	LEI/529900JVF3HKD8PLL447	LEI	Reisegarant Vermittler von Insolvenzvers	10	GmbH	2
AT	LEI/529900DG2IUTMG8TT623	LEI	Renaissance Hotel Realbesitz GmbH	10	Gesellschaft mbH	2
DE	LEI/529900IQQBLS8OXN3321	LEI	Rendite Partner Vermögensverwaltung	10	GmbH	2
AU	SC/LEI/529900MUF4C20K50JS49/AU/24014	Specific	Residential Builders Underwriting Agency Pty Ltd	10	Proprietary Ltd company	2
KY	SC/LEI/529900MUF4C20K50JS49/KY/10371	Specific	RMS Australian Forests Fund I	99	Limited duration company	2
KY	SC/LEI/529900MUF4C20K50JS49/KY/10285	Specific	RMS Forest Growth International	99	Limited duration company	2
US	LEI/5493000YXMQHF0K1R66	LEI	Roanoke Group Inc.	10	Business corporation	2
US	LEI/549300SE787LZJ53OQ23	LEI	Roanoke Insurance Group Inc., Schaumburg, Illinois	10	Business corporation	2
GB	LEI/213800LFVT6BTVN5F257	LEI	Roanoke International Brokers Limited	10	Private limited company	2
US	LEI/549300K7HI2NW4M8VA38	LEI	Roanoke Trade Insurance Inc.	10	Private limited company	2
DE	LEI/529900CP8WU2C6A7KW42	LEI	RP Vilbeler Fondsgesellschaft mbH	10	GmbH	2
AU	SC/LEI/529900MUF4C20K50JS49/AU/24009	Specific	Rural Affinity Insurance Agency	10	Proprietary Ltd company	2
FR	LEI/529900UDDFLBV9AIRG78	LEI	SAINT LEON ENERGIE S.A.R.L., Saargemünd	10	Societe a Respons.L.	2
DE	LEI/529900AV3WTFYOT5F419	LEI	SANA-Kliniken AG	10	Aktiengesellschaft	2
FR	SC/LEI/529900MUF4C20K50JS49/FR/58070	Specific	SAS Le Point du Jour, Paris	10	SAS societe par act.	2
BH	SC/LEI/529900MUF4C20K50JS49/BH/10022	Specific	Saudi National Insurance Company	2	Bahrain Shareholding	2
DE	LEI/3912005G6RBAASCEYR48	LEI	Schloß Hohenkammer GmbH	10	GmbH	2
DE	LEI/529900Q5RE20YBHFCZ61	LEI	Schrömbgens & Stephan GmbH, Versicherungsmakler	10	GmbH	2
GB	LEI/213800KQPC54GW2HLH37	LEI	Scout Moor Group Limited	10	Private limited company	2
GB	LEI/213800QBXJHXYRF53A88	LEI	Scout Moor Holdings (No. 1) Limited	10	Private limited company	2

	Supervisory Authority	% capital share	% used for the establishment of consolidated accounts	% voting rights	Other criteria	Criteria of influence		Inclusion in scope of Group supervision		Group solvency calculation
						Level of influence	Proportional share used for Group solvency calculation	Yes/no	Date of decision if Art. 214 is applied	Method used and, under Method 1, treatment of the undertaking ³
		100.0	100.0	100.0		Dominant	100.0	yes		3
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		10
		24.0	24.0	24.0		Significant	24.0	yes		10
		60.0	59.3	60.0		Dominant	59.3	yes		3
		33.3	33.3	33.3		Significant	33.3	yes		3
		20.0	20.0	20.0		Significant	20.0	yes		10
		37.4	37.4	37.4		Significant	37.4	yes		3
		43.5	43.5	43.5		Significant	43.5	yes		3
		100.0	100.0	100.0		Dominant	100	yes		1
		100.0	100.0	100.0		Dominant	100	yes		1
		100.0	100.0	100.0		Dominant	100.0	yes		3
		100.0	100.0	100.0		Dominant	100	yes		10
		40.0	40.0	40.0		Significant	40.0	yes		3
		50.0	50.0	50.0		Significant	50.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		10
		22.4	22.4	22.4		Significant	22.4	yes		3
		50.0	50.0	50.0		Significant	50.0	yes		3
		22.5	22.5	22.5		Significant	22.5	yes		3
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		1
		100.0	100.0	100.0		Dominant	100.0	yes		1

Undertakings in the scope of the group

Country	Identification code of the undertaking	Type of code of the ID of the undertaking	Legal name of undertaking	Type of undertaking ¹	Legal form	Category (mutual/non-mutual) ²
GB	LEI/213800Q9YHTR3RL8MS59	LEI	Scout Moor Holdings (No. 2) Limited	10	Private limited company	2
GB	LEI/213800RFWT44UMPDX616	LEI	Scout Moor Wind Farm (No. 2) Limited	10	Private limited company	2
GB	LEI/213800GR476QAVR9XC76	LEI	Scout Moor Wind Farm Limited	10	Private limited company	2
DE	LEI/391200HVV3UHEMNWZU35	LEI	SEBA Beteiligungsgesellschaft	5	GmbH	2
BE	LEI/5299005803MB4TKSUY49	LEI	Sekundi CVBA	10	Coöperatieve vennoot	2
DE	LEI/39120001PIFSKK4AFV80	LEI	Silvanus Vermögensverwaltungs-ges.mbH	10	GmbH	2
DE	LEI/529900FMWFYL06PLCE43	LEI	Solarpark Fusion 3 GmbH, Düsseldorf	10	GmbH	2
GB	LEI/549300MZJXUOXNK57V51	LEI	Solomon Associates Limited	10	Public Company Limited	2
PL	LEI/259400VWXB0MU1DTBR37	LEI	Sopockie Towarzystwo Doradcze Sp. z o.o.	10	SP.z.o.o.	2
US	LEI/549300EHJKRPDUIPR548	LEI	Speciality Insurance Services Corporation	10	Business corporation	2
NL	LEI/5299000WNAEUJI0BRP95	LEI	Stichting Aandelen Beheer D.A.S. Holding, Amsterdam	10	Stichting	2
NO	LEI/5967007LIEEXZX849444	LEI	Storebrand Helseforsikring AS	2	Alksjeselskap	2
PL	LEI/259400GGL5VECMUS2X04	LEI	STU Ergo Hestia S.A.	2	Spółka akcyjna	2
PL	LEI/259400U4BI8QGN8SLJ29	LEI	STUnZ ERGO Hestia S.A.	1	Spółka akcyjna	2
IT	LEI/8156009E151F79BA8206	LEI	SunEnergy & Partners S.r.l.	10	Soc.a Responsab. Lim.	2
AE	SC/LEI/529900MUF4C20K50JS49/AE/12805	Specific	Super Home, Inc.	10	Public limited by shares	2
CO	LEI/391200HI1K0GVSPGAS83	LEI	Suramericana S.A.	5	Sociedad Anónima	2
DE	SC/LEI/529900MUF4C20K50JS49/DE/10813	Specific	Sustainable Finance Risk Consulting GmbH i. Gr.	10	GmbH	2
AU	LEI/529900XDRZWOMIHJBS83	LEI	Sydney Euro-Center	10	Proprietary Ltd company	2
IT	LEI/81560081520F91430371	LEI	Synkronos Italia SRL	10	Soc.a Responsab.Lim.	2
DE	LEI/529900TO30U6QA7UEM47	LEI	TAS Assekuranz Service GmbH,	10	GmbH	2
NL	SC/LEI/529900MUF4C20K50JS49/NL/10314	Specific	Tanus Holding B.V.	10	Besloten Vennootscha	2
DE	LEI/529900IEVFYZRG1LAZ12	LEI	Teko Technisches Kontor f. Versicherungen	10	GmbH	2
CA	LEI/5493006NQCP23P2CK653	LEI	Temple Insurance Company	2	Corporation	2
US	LEI/54930041MESNMSGVW560	LEI	The Atlas Insurance Agency, Inc.	10	Business corporation	2
CA	LEI/549300FOKPVMM7YUA955	LEI	The Boiler Inspection and Insurance Company of Canada	2	Corporation	2
US	LEI/5493007KEIOUC4JBRQ78	LEI	The Hartford Steam Boiler Inspection and Insurance Company	2	Business corporation	2
US	LEI/549300DQPMR2TQKNLE68	LEI	The Hartford Steam Boiler Inspection and Insurance Company	2	Business corporation	2

	Supervisory Authority	% capital share	% used for the establishment of consolidated accounts	% voting rights	Other criteria	Criteria of influence		Inclusion in scope of Group supervision		Group solvency calculation
						Level of influence	Proportional share used for Group solvency calculation	Yes/no	Date of decision if Art. 214 is applied	Method used and, under Method 1, treatment of the undertaking ³
		100.0	100.0	100.0		Dominant	100.0	yes		1
		100.0	100.0	100.0		Dominant	100.0	yes		1
		100.0	100.0	100.0		Dominant	100.0	yes		1
		49.0	49.0	49.0		Significant	49.0	yes		3
		33.3	17.0	33.3		Significant	17.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		1
		100.0	100.0	100.0		Dominant	100.0	yes		3
		100.0	100.0	100.0		Dominant	100.0	yes		3
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	100.0	100.0		Dominant	100	yes		3
		100.0	100.0	100.0		Dominant	100.0	yes		10
	Finanstilsynet	50.0	50.0	50.0		Significant	50.0	yes		3
	Polish Financial Supervision Authority (KNF)	100.0	100.0	100.0		Dominant	100.0	yes		1
	Polish Financial Supervision Authority (KNF)	100.0	100.0	100.0		Dominant	100.0	yes		1
		100.0	100.0	100.0		Dominant	100.0	yes		1
		15.0	15.0	33.3		Significant	15.0	yes		10
		18.9	18.9	18.9		Significant	18.9	yes		3
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	81.7	100.0		Dominant	81.7	yes		10
		59.4	59.4	59.4		Dominant	59.4	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		10
		23.2	23.2	23.2		Significant	23.2	yes		3
		30.0	30.0	30.0		Significant	30.0	yes		10
	Office of Superintendent of Financial Institutions (OSFI)	100.0	100.0	100.0		Dominant	100.0	yes		1
		100.0	100.0	100.0		Dominant	100	yes		3
	Office of Superintendent of Financial Institutions (OSFI)	100.0	100.0	100.0		Dominant	100.0	yes		1
	Connecticut Department of Insurance	100.0	100.0	100.0		Dominant	100	yes		1
	Connecticut Department of Insurance	100.0	100.0	100.0		Dominant	100	yes		1

Undertakings in the scope of the group

Country	Identification code of the undertaking	Type of code of the ID of the undertaking	Legal name of undertaking	Type of undertaking ¹	Legal form	Category (mutual/non-mutual) ²
US	LEI/549300I4EZHC24L19J28	LEI	The Midland Company	5	Business corporation	2
US	LEI/549300GHLC2MNBWJQO61	LEI	The Polytechnic Club, Inc.	10	Business corporation	2
US	LEI/549300QIRMA0CCZ12W27	LEI	The Princeton Excess and Surplus Lines Insurance	2	Business corporation	2
GB	LEI/5299004AHRBEY8PK0T68	LEI	Three Lions Underwriting Ltd. London	10	Private limited company	2
ES	LEI/529900KNC2LGICEAP478	LEI	TILLOBESTA 180018, S.L.	10	Sociedad Limitada	2
GB	LEI/213800LXBERFQLQWH39	LEI	Tir Mostyn and Foel Goch Limited	10	Private limited company	2
DE	LEI/5299000W5ZPVS8ALYU52	LEI	Touristik Assekuranz Service GmbH	10	GmbH	2
NL	LEI/529900P4T2VFZJEEWB49	LEI	Triple IP B.V.	10	Besloten Vennootscha	2
ES	LEI/959800XEZ015X77A2D40	LEI	T-Solar Global Operating Assets S.L.	10	Sociedad Limitada	2
DE	LEI/529900BUL36LSFE4TS78	LEI	U.S. Property Fund IV GmbH & Co. KG, Munich	10	GmbH & Co. KG	2
LT	SC/LEI/529900MUF4C20K50JS49/LT/10386	Specific	UAB Agrofondas	10	Uždaroji akcinė bend	2
LT	SC/LEI/529900MUF4C20K50JS49/LT/10387	Specific	UAB Agrolaukai	10	Uždaroji akcinė bend	2
LT	SC/LEI/529900MUF4C20K50JS49/LT/10389	Specific	UAB Agrovalda	10	Uždaroji akcinė bend	2
LT	SC/LEI/529900MUF4C20K50JS49/Lt/10388	Specific	UAB Agrovesta	10	Uždaroji akcinė bend	2
LT	SC/LEI/529900MUF4C20K50JS49/LT/10390	Specific	UAB G.Q.F	10	Uždaroji akcinė bend	2
LT	SC/LEI/529900MUF4C20K50JS49/LT/10385	Specific	UAB Sietuve	10	Uždaroji akcinė bend	2
LT	SC/LEI/529900MUF4C20K50JS49/LT/10391	Specific	UAB Ukelis	10	Uždaroji akcinė bend	2
LT	SC/LEI/529900MUF4C20K50JS49/LT/10392	Specific	UAB Vasaros Brizas	10	Uždaroji akcinė bend	2
LT	SC/LEI/529900MUF4C20K50JS49/LT/10358	Specific	UAB VL Investment Vilnius 5	10	Uždaroji akcinė bend	2
LT	SC/LEI/529900MUF4C20K50JS49/LT/10359	Specific	UAB VL Investment Vilnius 6	10	Uždaroji akcinė bend	2
LT	SC/LEI/529900MUF4C20K50JS49/LT/10360	Specific	UAB VL Investment Vilnius 7	10	Uždaroji akcinė bend	2
LT	SC/LEI/529900MUF4C20K50JS49/LT/10361	Specific	UAB VL Investment Vilnius 8	10	Uždaroji akcinė bend	2
LT	SC/LEI/529900MUF4C20K50JS49/LT/10362	Specific	UAB VL Investment Vilnius 9	10	Uždaroji akcinė bend	2
LT	SC/LEI/529900MUF4C20K50JS49/LT/10353	Specific	UAB VL Investment Vilnius	10	Uždaroji akcinė bend	2
LT	SC/LEI/529900MUF4C20K50JS49/LT/10354	Specific	UAB VL Investment Vilnius 1	10	Uždaroji akcinė bend	2
LT	SC/LEI/529900MUF4C20K50JS49/LT/10363	Specific	UAB VL Investment Vilnius 10	10	Uždaroji akcinė bend	2
LT	SC/LEI/529900MUF4C20K50JS49/LT/10355	Specific	UAB VL Investment Vilnius 2	10	Uždaroji akcinė bend	2

Undertakings in the scope of the group

Country	Identification code of the undertaking	Type of code of the ID of the undertaking	Legal name of undertaking	Type of undertaking ¹	Legal form	Category (mutual/non-mutual) ²
LT	SC/LEI/529900MUF4C20K50JS49/LT/10356	Specific	UAB VL Investment Vilnius 3	10	Uždaroji akcinė bend	2
LT	SC/LEI/529900MUF4C20K50JS49/LT/10357	Specific	UAB VL Investment Vilnius 4	10	Uždaroji akcinė bend	2
GB	LEI/213800SWNQ26R3LYOF06	LEI	UK Wind Holdings Ltd	10	Private limited company	2
ES	LEI/959800H5T5F7W8DPCK13	LEI	Union Medica La Fuencisla	2	Sociedad anónima	2
DE	LEI/529900QIX02RO74BDS59	LEI	US PROPERTIES VA GmbH & Co. KG, Düsseldorf	10	GmbH & Co. KG	2
DE	LEI/529900M3P2FS7GC19856	LEI	US PROPERTIES VA Verwaltungs GmbH	10	GmbH	2
NL	LEI/5299001630QGIH2WH741	LEI	Van Arkel Gerechtsdeurwaarders	10	Besloten Vennootscha	2
HR	SC/LEI/529900MUF4C20K50JS49/HR/60056	Specific	VB-VICTORIA Zastupanje u Osiguranju	10	d.o.o.	2
IL	SC/LEI/529900MUF4C20K50JS49/IL/10382	Specific	Vectis Claims Services Ltd.	10	Limited	2
DE	LEI/529900USEYMYH364TY24	LEI	Verwaltungsgesellschaft PORT ELISABETH mbH	10	GmbH	2
DE	LEI/529900M8WH9Z0MTFEY10	LEI	Verwaltungsgesellschaft PORT KELANG mbH	10	GmbH	2
DE	LEI/529900YB51J503N4S082	LEI	Verwaltungsgesellschaft PORT LOUIS GmbH	10	GmbH	2
DE	LEI/529900TZUPUDE7C0EC49	LEI	Verwaltungsgesellschaft PORT MAUBERT	10	GmbH	2
DE	LEI/529900NGY1BHUR6CAR20	LEI	Verwaltungsgesellschaft PORT MENIER	10	GmbH	2
DE	LEI/529900FFO15SKLMZKM19	LEI	Verwaltungsgesellschaft PORT MOODY mbH,	10	GmbH	2
DE	LEI/529900I8B3RRY5XNWZ60	LEI	Verwaltungsgesellschaft PORT MORESBY	10	GmbH	2
DE	LEI/529900UEJRGK8MPNVL89	LEI	Verwaltungsgesellschaft PORT MOUTON	10	GmbH	2
DE	LEI/52990055XIV8V36WXN54	LEI	Verwaltungsgesellschaft PORT NELSON	10	GmbH	2
DE	LEI/529900Q4O9ATXYVSQ493	LEI	Verwaltungsgesellschaft PORT NELSON	10	GmbH	2
DE	LEI/529900EMI2Z5RKA12H91	LEI	Verwaltungsgesellschaft PORT RUSSEL GmbH	10	GmbH	2
DE	LEI/529900B1TREE2AAPIV79	LEI	Verwaltungsgesellschaft PORT SAID mbH	10	GmbH	2
DE	LEI/529900N4PKRDYVP7OF86	LEI	Verwaltungsgesellschaft PORT STANLEY GmbH	10	GmbH	2
DE	LEI/52990025Q3XIAZ9TGD63	LEI	Verwaltungsgesellschaft PORT STEWART mbH	10	GmbH	2
DE	LEI/529900Y9DZPML2H1DY24	LEI	Verwaltungsgesellschaft PORT UNION mbH	10	GmbH	2
AT	LEI/529900BQNFVAHM6B1N64	LEI	VFG Vorsorge-Finanzierungsconsulting	10	Gesellschaft mbH	2
DE	LEI/52990041KKYYQRU6KH07	LEI	VHDK Beteiligungsgesellschaft mbH	10	GmbH	2

	Supervisory Authority	% capital share	% used for the establishment of consolidated accounts	% voting rights	Other criteria	Criteria of influence		Inclusion in scope of Group supervision		Group solvency calculation
						Level of influence	Proportional share used for Group solvency calculation	Yes/no	Date of decision if Art. 214 is applied	Method used and, under Method 1, treatment of the undertaking ³
		100.0	100.0	100.0		Dominant	100.0	yes		1
		100.0	100.0	100.0		Dominant	100.0	yes		1
		100.0	100.0	100.0		Dominant	100.0	yes		1
		100.0	100.0	100.0		Dominant	100.0	yes		1
		46.1	46.1	46.1		Dominant	46.1	yes		3
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	51.0	49.0		Dominant	100.0	yes		1
		0.0	0.0	0.0		Dominant	0.0	yes		10
		75.0	75.0	75.0		Dominant	75.0	yes		10
		50.0	50.0	50.0		Significant	50.0	yes		10
		50.0	50.0	50.0		Significant	50.0	yes		10
		50.0	50.0	50.0		Significant	50.0	yes		10
		50.0	50.0	50.0		Significant	50.0	yes		10
		50.0	50.0	50.0		Significant	50.0	yes		10
		50.0	50.0	50.0		Significant	50.0	yes		10
		50.0	50.0	50.0		Significant	50.0	yes		10
		50.0	50.0	50.0		Significant	50.0	yes		10
		50.0	50.0	50.0		Significant	50.0	yes		10
		50.0	50.0	50.0		Significant	50.0	yes		10
		50.0	50.0	50.0		Significant	50.0	yes		10
		50.0	50.0	50.0		Significant	50.0	yes		10
		50.0	50.0	50.0		Significant	50.0	yes		10
		100.0	99.7	100.0		Dominant	99.7	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		3

Undertakings in the scope of the group

Country	Identification code of the undertaking	Type of code of the ID of the undertaking	Legal name of undertaking	Type of undertaking ¹	Legal form	Category (mutual/non-mutual) ²
DE	LEI/529900EK6D4DHSDLIS88	LEI	VICTORIA Asien Immobilienbeteiligungs GmbH & Co. KG	10	GmbH & Co. KG	2
DE	LEI/529900MQTEENTBGORC20	LEI	VICTORIA Immobilien Management GmbH	10	GmbH	2
DE	LEI/529900R6LB2VI75FAZ16	LEI	VICTORIA Immobilien-Fonds GmbH	10	GmbH	2
DE	LEI/529900JIIMTQ5HAGCK66	LEI	VICTORIA Italy Property GmbH	10	GmbH	2
DE	LEI/529900WY879RDTUH2615	LEI	VICTORIA Lebensversicherung	1	Aktiengesellschaft	2
US	SC/LEI/529900MUF4C20K50JS49/US/58004	Specific	VICTORIA US Holdings,	10	Business corporation	2
DE	LEI/529900VVQ1O6V5267V84	LEI	VICTORIA US Property Investment	10	GmbH	2
DE	LEI/39120001A2B3G01CCI34	LEI	VICTORIA US Property Zwei GmbH	10	GmbH	2
DE	LEI/529900SGSNLTDV1L8L32	LEI	VICTORIA Vierte Beteiligungsgesellschaft mbH	10	GmbH	2
DE	LEI/52990013S1AUCVFTMU49	LEI	Victoria Vierter Bauabschnitt GmbH & Co. KG	10	GmbH & Co. KG	2
DE	LEI/529900P8QI4N4MTN0506	LEI	Victoria Vierter Bauabschnitt Management GmbH	10	GmbH	2
LU	LEI/549300LT0CSCQEZVR480	LEI	Vier Gas Investments S.à r.l.	10	Société a Responsabi	2
DE	LEI/391200NUJ6WKN311DA37	LEI	VisEq GmbH	10	GmbH	2
DE	LEI/52990063RYEPA6ISYI72	LEI	Viwis GmbH, Munich	10	GmbH	2
AT	LEI/529900H9UAV272KDY325	LEI	Volksbanken-Versicherungsdienst GmbH, Vienna	10	Gesellschaft mbH	2
DE	LEI/529900KGSLBWVSMQMY03	LEI	VORSORGE Lebensversicherung AG	1	Aktiengesellschaft	2
LU	LEI/529900FMF2P7MBTLRS77	LEI	VORSORGE Luxemburg Lebensversicherung S.A.	1	Société anonyme	2
DE	LEI/529900D14JKG30EK9975	LEI	Vorsorge Service GmbH, Hilden	10	GmbH	2
DE	SC/LEI/529900MUF4C20K50JS49/DE/58039	Specific	VV Immobilien GmbH & Co. US KG	10	GmbH & Co. KG	2
DE	SC/LEI/529900MUF4C20K50JS49/DE/58026	Specific	VV Immobilien US City KG	10	GmbH & Co. KG	2
DE	LEI/549300N2GWIWB1MCFS83	LEI	VV Immobilien Verw.u. Beteiligungs GmbH	10	GmbH	2
DE	LEI/54930085P3E55PI70554	LEI	VV Immobilien Verwaltungs GmbH, Munich	10	GmbH	2
AT	LEI/529900JTU3UY3SXC4Z28	LEI	VV-Consulting Ges. für Risikoanalyse	10	Gesellschaft mbH	2
HU	LEI/529900PL3NIODBRFJE42	LEI	VV-Consulting Többesügynöki Kft.	10	Korlatolt Felelősseg	2
DE	LEI/5299009ZR4JK4ID1PP08	LEI	welivit GmbH	10	GmbH	2
DE	LEI/529900M65XGTKXCXI425	LEI	welivit New Energy GmbH	10	GmbH	2
DE	LEI/52990093KG08TZXAU759	LEI	welivit Solar Espana	10	GmbH	2
IT	LEI/529900PD6Z9WGXERKK41	LEI	welivit Solar Italia s.r.l.	10	Soc.a Responsab.Lim.	2
DE	LEI/529900LPFOGV4SRZGY50	LEI	welivit Solarfonds GmbH & Co. KG	10	GmbH & Co. KG	2
IT	LEI/529900VNTHOAZQ7YAV52	LEI	welivit Solarfonds S.a.s. di welivit Solar Italia S.r.l.	10	Soc.a Responsab.Lim.	2
SE	LEI/5299008O4S9410QOW018	LEI	WFB Stockholm Management AB	10	Aktiebolag	2

	Supervisory Authority	% capital share	% used for the establishment of consolidated accounts	% voting rights	Other criteria	Criteria of influence		Inclusion in scope of Group supervision		Group solvency calculation
						Level of influence	Proportional share used for Group solvency calculation	Yes/no	Date of decision if Art. 214 is applied	Method used and, under Method 1, treatment of the undertaking ³
		100.0	100.0	100.0		Dominant	100.0	yes		3
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		3
	Bundesanstalt für Finanzdienstleistungsaufsicht (BaFin)	100.0	100.0	100.0		Dominant	100.0	yes		1
		0.0	0.0	0.0		Dominant	0	yes		3
		100.0	100.0	100.0		Dominant	100.0	yes		3
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		1
		100.0	100.0	100.0		Dominant	100.0	yes		1
		100.0	100.0	100.0		Dominant	100.0	yes		10
		43.8	43.8	43.8		Significant	43.8	yes		3
		34.0	34.0	34.0		Significant	34.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		10
		25.2	24.9	25.2		Significant	24.9	yes		10
	Bundesanstalt für Finanzdienstleistungsaufsicht (BaFin)	100.0	100.0	100.0		Dominant	100.0	yes		1
	CAA Commissariat aux Assurances	100.0	100.0	100.0		Dominant	100.0	yes		1
		100.0	100.0	100.0		Dominant	100.0	yes		10
		29.0	29.0	29.0		Significant	29.0	yes		3
		23.1	23.1	23.1		Significant	23.1	yes		3
		30.0	30.0	30.0		Significant	30.0	yes		10
		30.0	30.0	30.0		Significant	30.0	yes		10
		100.0	98.8	100.0		Dominant	98.8	yes		10
		100.0	99.9	100.0		Dominant	99.9	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		3
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	100.0	100.0		Dominant	100.0	yes		10
		100.0	99.7	100.0		Dominant	99.7	yes		3
		100.0	99.7	100.0		Dominant	99.7	yes		3
		50.0	50.0	50.0		Dominant	100.0	yes		1

Undertakings in the scope of the group

Country	Identification code of the undertaking	Type of code of the ID of the undertaking	Legal name of undertaking	Type of undertaking ¹	Legal form	Category (mutual/non-mutual) ²
SE	LEI/549300YXRYOJVHOO3467	LEI	Wind Farms Götaland Svealand AB	10	Aktiebolag	2
SE	LEI/549300V6K54MSINSR007	LEI	Wind Farms Västra Götaland AB	10	Aktiebolag	2
DE	LEI/391200V8FCKDBCTWOZ42	LEI	Windpark Langengrassau Infrastruktur GbR	10	Gesellschaft bR	2
DE	LEI/3912007AWOGFAJQCEA79	LEI	Windpark MR-B GmbH & Co. KG	10	GmbH & Co. KG	2
DE	LEI/391200TBXTA4EK3ZTG94	LEI	Windpark MR-D GmbH & Co. KG	10	GmbH & Co. KG	2
DE	LEI/391200G4ZSY0A1UX6N75	LEI	Windpark MR-N GmbH & Co. KG	10	GmbH & Co. KG	2
DE	LEI/391200T2PBY3KSV5XX21	LEI	Windpark MR-S GmbH & Co. KG	10	GmbH & Co. KG	2
DE	LEI/391200IKJIHRL5OFH253	LEI	Windpark MR-T GmbH & Co. KG	10	GmbH & Co. KG	2
DE	LEI/391200R1UZDZYCBQ297	LEI	Windpark Osterhausen-Mittelhausen Infrastruktur GbR	10	Gesellschaft bR	2
DE	LEI/529900JRLLEUGEORKE29	LEI	WISMA ATRIA Holding GmbH & Co KG i. L.	10	GmbH & Co. KG	2
DE	LEI/529900P44D4OBG4GVB58	LEI	WISMA ATRIA Holding GmbH i. L., Düsseldorf	10	GmbH	2
DE	LEI/5299002PTKF09OHK0M02	LEI	WNE Solarfonds Süddeutschland 2 GmbH & Co. KG, Düsseldorf	10	GmbH & Co. KG	2
DE	LEI/52990057QJO104VI7Q59	LEI	Wohnungsgesellschaft Brella mbH	10	GmbH	2
DE	LEI/391200YVCJHU4QFCR410	LEI	WP Kladrup/Dargelütz GbR	10	Gesellschaft bR	2
DE	LEI/529900X9WSGHT8WCJ285	LEI	wse Solarpark Spanien 1 GmbH & Co. KG	10	GmbH & Co. KG	2
NL	LEI/529900GRF6SXM8R51D57	LEI	X-Pact B.V.	10	Besloten Vennootscha	2
ES	LEI/5299006Y5PPRD3WCJB42	LEI	ZACOBU 110011, S.L.	10	Sociedad Limitada	2
ES	LEI/52990030NNWC97PB0190	LEI	ZACUBA 6006, S.L.	10	Sociedad Limitada	2
ES	LEI/529900I83N8JH47CKN53	LEI	ZACUBACON 150015, S.L.	10	Sociedad Limitada	2
ES	LEI/529900UNHGQPQHJHUW310	LEI	ZAFACESBE 120012, S.L.	10	Sociedad Limitada	2
ES	LEI/529900WW1CYR37PXKN51	LEI	ZAPACUBI 8008, S.L.	10	Sociedad Limitada	2
ES	LEI/5299006SI4VSI5F5PLL03	LEI	ZARZUCOLUMBU 100010, S.L.	10	Sociedad Limitada	2
ES	LEI/5299006SUDDH703Y2S60	LEI	ZETAZA 4004, S.L.	10	Sociedad Limitada	2
ES	LEI/529900FWPUJZ7GIGA390	LEI	ZICOBUCAR 140014, S.L.	10	Sociedad Limitada	2
ES	LEI/529900YI8TYJ5U2PX521	LEI	ZUCAELO 130013, S.L.	10	Sociedad Limitada	2
ES	LEI/529900WUVQJO8OAO8J60	LEI	ZUCAMPOBI 3003, S.L.	10	Sociedad Limitada	2
ES	LEI/529900E6PMCQF1ZDLN37	LEI	ZUCARROBISO 2002, S.L.	10	Sociedad Limitada	2
ES	LEI/529900MG7EVV9IGVYP26	LEI	ZUCOBACO 7007, S.L.	10	Sociedad Limitada	2
ES	LEI/5299009W39B2JFZZR284	LEI	ZULAZOR 3003, S.L.	10	Sociedad Limitada	2
ES	LEI/529900FWT4Z4ICBFHW68	LEI	ZUMBICOBI 5005, S.L.	10	Sociedad Limitada	2
ES	LEI/5299001G472TM1GG1H52	LEI	ZUMCASBA 1001, S.L.	10	Sociedad Limitada	2
ES	LEI/5299008BMY03Q5QA0F48	LEI	ZUNCABU 4004, S.L.	10	Sociedad Limitada	2
ES	LEI/52990058I6EPT5WN2O45	LEI	ZUNCOLUBO 9009, S.L.	10	Sociedad Limitada	2

The details of the footnotes can be seen on the following page.

- 1 Type of undertaking:
 - 1 - Life insurance undertaking
 - 2 - Non-life insurance undertaking
 - 3 - Reinsurance undertaking
 - 4 - Composite insurance undertaking
 - 5 - Insurance holding company within the meaning of Article 212(1)(f) of Directive 2009/138/EC
 - 6 - Mixed-activity insurance holding company within the meaning of Article 212(1)(g) of Directive 2009/138/EC
 - 7 - Mixed financial holding company within the meaning of Article 212 (1)(h) of Directive 2009/138/EC
 - 8 - Credit institution, investment firm or financial institution
 - 9 - Institutions for occupational retirement provision
 - 10 - Ancillary services undertaking within the meaning of Article 1(53) of Commission Delegated Regulation (EU) 2015/35
 - 11 - Non-regulated undertaking carrying out financial activities within the meaning of Article 1(52) of Commission Delegated Regulation (EU) 2015/35
 - 12 - Special purpose vehicle within the meaning of Article 212(1)(h) of Directive 2009/138/EC
 - 13 - Special purpose vehicles other than special purpose vehicles within the meaning of Article 212(1)(h) of Directive 2009/138/EC
 - 14 - UCITS management company within the meaning of Article 1(54) of Commission Delegated Regulation (EU) 2015/35
 - 15 - Alternative investment fund manager within the meaning of Article 1(55) of Commission Delegated Regulation (EU) 2015/35
 - 99 - Other
- 2 Category (mutual/non-mutual):
 - 1 - Mutual
 - 2 - Non-mutual
- 3 Method used, under Method 1, treatment of the undertaking:
 - 1 - Method 1: Full consolidation
 - 2 - Method 1: Proportional consolidation
 - 3 - Method 1: Adjusted equity method
 - 4 - Method 1: Sectoral rules
 - 5 - Method 2: Solvency II
 - 6 - Method 2: Other sectoral rules
 - 7 - Method 2: Local regulations
 - 8 - Deduction of book value within the meaning of Article 229 of Directive 2009/138/EC
 - 9 - Not included in scope of Group supervision within the meaning of Article 214 of Directive 2009/138/EC
 - 10 - Other methods

Remuneration report

Remuneration system for the Board of Management

The remuneration system for the Board of Management focuses strongly on long-term objectives, and thus creates a pronounced incentive for sustainable corporate development. It complies with

- the recommendations of the German Corporate Governance Code, applicable since 5 May 2015,
- the provisions of the German Remuneration Regulation for Insurance Companies (VersVergV) of 18 April 2016, and

– Article 275 of the Commission Delegated Regulation (EU) 2015/35 of 10 October 2014 supplementing Directive 2009/138/EC of the European Parliament and of the Council on the taking-up and pursuit of the business of Insurance and Reinsurance (Solvency II).

The full Supervisory Board decides on the remuneration system for the Board of Management, and reviews it regularly. The Personnel Committee of the Supervisory Board, comprising the Chairman of the Supervisory Board, one shareholder representative and one employee representative, prepares the resolutions for the full Supervisory Board.

Fixed components

The fixed components of remuneration comprise basic remuneration, plus remuneration in kind and fringe benefits.

Structure of the remuneration system for the Board of Management

Component	Share ¹	Assessment basis/ parameters	Corridor	Precondition for payment	Payment
Basic remuneration plus remuneration in kind/ fringe benefits	30%	Function, Responsibility, Length of service on Board	Fixed	Contractual stipulations	Monthly
Variable remuneration	70%	Corporate performance Result contribution of organisational unit(s) Personal performance			
30% annual performance (for 100% performance evaluation/ achievement of objectives)		Group objective Business-field objectives Divisional objectives Personal objectives Overall performance	0-200% (fully achieved = 100%)	Achievement of annual objectives	In the second year, on condition that 50% of the net amount paid out is invested by the Board member in Munich Re shares that must be held for at least a four-year period
70% multi-year performance (for 100% performance evaluation/ achievement of objectives)		Objectives for the fields of business – Reinsurance – ERGO – Munich Health ² Personal objectives Overall performance	0-200% (fully achieved = 100%)	Achievement of three-year objectives	In the fourth year, on condition that 25% of the net amount paid out is invested by the Board member in shares that must be held for at least a two- year period
Pension					
Defined contribution plan		Target overall direct remuneration ³	Pension contribution	> Retirement > Insured event > Premature termination	

¹ For the variable remuneration, the share shown presupposes 100% performance evaluation/achievement of objectives.

² The field of business/division Munich Health was disbanded as at 1 February 2017, so that no objectives have been set with effect from 2017.

³ Target overall direct remuneration comprises basic remuneration plus variable remuneration based on 100% performance evaluation/achievement of objectives.

Basic remuneration

The basic remuneration comprises a fixed cash compensation for the financial year, paid out as a monthly salary.

Remuneration in kind/fringe benefits

Remuneration in kind and fringe benefits include – in particular – company cars, insurance premiums and health screening examinations, and are reviewed against market practice at regular intervals. Income tax on the benefits in question is paid individually for each member of the Board of Management, with the Company bearing the amount due. Remuneration in kind and fringe benefits are disclosed in the Annual Report using expenditure as the basis of valuation.

Variable remuneration

The variable remuneration component is geared to the overall performance of the Group and defined divisional units, and to the personal performance of the individual members of the Board of Management. The amount depends on the extent to which the annually set objectives for annual and multi-year performance are met, and how the component “evaluation of overall performance” is assessed.

Processes have been laid down for specifying respective objectives and assessing their achievement. These processes require review by the external auditor, who checks the criteria for measuring the envisaged financial objectives and whether their achievement has been assessed in accordance with the guidelines established by the Company. The outcome is notified to the Supervisory Board.

Achievement of objectives and overall performance is measured at the end of the one-year and three-year periods in question, there being no adjustment of targets during these periods. The corridor for the achievement of the individual objectives and for the overall annual and multi-

year performance is 0–200%. Payouts are made at the end of the periods under consideration. With a view to promoting a management approach that takes due account of the Company’s long-term interests, the members of the Board of Management are obliged to invest a fixed part of the paid-out variable remuneration in Munich Reinsurance Company shares.

Annual objectives, multi-year objectives, overall performance evaluation and investment in shares together form a well-balanced and economic (i.e. strongly risk-based) incentive system, with great importance being attached to ensuring that the targets set for the members of the Board of Management do not have undesirable effects. No guaranteed variable salary components are granted.

Variable remuneration based on annual performance

Firstly, annual targets for the variable remuneration component geared to annual performance are set on the basis of the consolidated result of Munich Re (Group), the results from the reinsurance and ERGO fields of business, divisional results and personal performance. In addition, the Supervisory Board assesses overall performance – particularly performance not taken into account in the objectives – of the Board of Management as a whole and the individual Board members, and it also takes into account developments during the appraisal period that are beyond the influence of the Board. Full achievement of the annual objectives (100%) allows for payment of 30% of the overall target amount for variable remuneration.

The variable remuneration for annual performance is determined on the basis of evaluation by the full Supervisory Board and then paid out in the year after the one-year assessment period. Of the net payout amount, 50% must be invested in Munich Reinsurance Company shares that must be held for at least a four-year period.

Details of the assessment bases for the annual performance can be seen in the following table:

Variable remuneration based on annual performance

Category of objective	Share ¹	Assessment basis	Parameters
Collective contribution to corporate success	25%-60%		
Group objective		Derived from key performance indicators in external reporting and other important portfolio and performance data	Return on risk-adjusted capital, RORAC ²
Business-field objectives			
- Reinsurance		Value-based economic performance indicators: - Property-casualty reinsurance - Life reinsurance	Components of economic earnings ³ : - Value added - Value added by new business - Change in the value of in-force business
- ERGO		Value-based economic performance indicator	Economic earnings ³
Individual contribution to corporate success	20%-55%		
Divisional objectives		Value-based economic performance indicators: - Property-casualty reinsurance and Munich Health - Life reinsurance	Components of economic earnings ³ : - Value added - Value added by new business - Change in the value of in-force business
Personal objectives		Personal objectives per Board member	Special focal points such as - Pricing and cycle management - Client management - Innovation initiatives
Overall performance evaluation	20%	Overall performance of individual Board members and of the Board of Management as a whole	Assessment by Supervisory Board taking into account Section 87 of the Stock Corporation Act (AktG) and the German Corporate Governance Code

1 The objectives are weighted individually according to the responsibilities of the individual Board members.

2 RORAC - Return on risk-adjusted capital after tax.

3 Economic earnings - Economic value added in a fixed period.

Variable remuneration based on multi-year performance

For the multi-year performance remuneration component, three-year targets based on the financial results of the reinsurance, ERGO and Munich Health fields of business and on individual performance are fixed every year. The Supervisory Board also assesses the overall performance of the whole Board of Management and the individual Board members. This allows for a response to developments during the three-year appraisal period that are beyond the influence of Board members, and which can also be taken into account along with performance not included in the agreement of objectives. Full achievement of the multi-year objectives (100%) allows for payment of 70% of the overall target amount for variable remuneration.

The variable remuneration for the multi-year performance is determined on the basis of evaluation by the full Supervisory Board and then paid out in the year after the three-year assessment period. Of the net payout amount, 25% must be invested in Munich Reinsurance Company shares that must be held for at least a two-year period.

Details of the assessment bases for the multi-year performance can be seen in the following table:

Variable remuneration based on multi-year performance

Category of objective	Share ¹	Assessment basis	Parameters
Collective contribution to corporate success	0%-60%		
Business-field objectives (three-year average)			
- Reinsurance		Value-based economic performance indicators: - Property-casualty reinsurance - Life reinsurance	Components of economic earnings ² : - Value added - Value added by new business - Change in the value of in-force business
- ERGO ³		Value-based economic performance indicator	Economic earnings ²
- Munich Health ³		Value-based economic performance indicator	Component of economic earnings ² : - Value added
Individual contribution to corporate success	20%-80%		
Personal objectives (three-year period)		Personal objectives per Board member	Special focal points such as - Strategic goals - Client management - Innovation initiatives - Digitalisation initiatives
Overall performance evaluation	20%	Overall performance of individual Board members and the Board of Management as a whole	Assessment by Supervisory Board taking into account Section 87 of the Stock Corporation Act (AktG) and the German Corporate Governance Code (incl. corporate responsibility)

1 The objectives are weighted individually according to the responsibilities of the individual Board members.

2 Economic earnings - Economic value added in a fixed period.

3 The business-field objective for Munich Health and for ERGO is an "individual contribution to corporate success" for the Board member responsible.

Weighting of remuneration components

In the case of 100% achievement of objectives, the weightings of the individual components in terms of total remuneration were as follows: basic remuneration 30%, variable remuneration 70%, of which 30% was based on annual performance and 70% on multi-year performance.

Continued payment of remuneration in the case of incapacity to work

In the case of temporary incapacity to work due to illness or for another cause beyond the Board member's control, the remuneration is paid until the end of the contract of employment. The Company may terminate the contract prematurely if Board members are incapacitated for a period of longer than 12 months and it is probable that they will be permanently unable to fully perform the duties conferred on them (permanent incapacity to work). In this event, the Board member will receive a disability pension.

Other remuneration

Stock option plan

No stock option plans or other incentive systems are in place for the Board of Management.

Remuneration for other board memberships

In the case of seats held on other boards, remuneration for board memberships must be paid over to the Company or is deducted in the course of regular remuneration computation. Exempted from this is remuneration for memberships explicitly classified by the Supervisory Board as private.

Severance cap and change of control

Members of the Board of Management appointed before 1 January 2017 have no contractual right to severance payments. If the Board member's activities on the Board are terminated prematurely without good cause, payments due may not exceed the equivalent of two years' total remuneration (three years total remuneration in the event of acquisition of a controlling interest or change of control within the meaning of Section 29 (2) of the Securities Acquisition and Takeover Act - WpÜG) and may not cover more than the remaining period of the employment contract. If the employment contract is terminated for good cause on grounds that are within the Board members control, no payments are made to the Board member. The calculation is based on the overall remuneration for the past financial year and, if necessary, on the probable overall remuneration for the current financial year.

Members of the Board of Management appointed for the first time after 1 January 2017 whose contracts are terminated by the Company without good cause will have a contractual right to a severance payment. Such payments may not exceed the equivalent of two years total remuneration, and are restricted by the remaining term of the Board member's contract. Total annual remuneration is calculated on the basis of fixed annual remuneration and the variable remuneration paid out for the prior full financial year before the contract was terminated; remuneration in kind, other ancillary benefits and contributions to occupational retirement schemes are not taken into account. Payments received by a Board

member during a period of notice and after termination of the appointment are offset against any severance payment. There will be no right to severance payments if the Board member's contract is terminated by the Company for good cause.

Pensions

Up to and including 2008, the members of the Board of Management were members of a defined benefit plan, providing for payment of a fixed pension amount.

As of 2009, newly appointed members of the Board have become members of a defined contribution plan. For this plan, the Company provides a pension contribution for each calendar year (contribution year) during the term of the employment contract. It uniformly amounts to 25.5% of the target overall direct remuneration (= basic remuneration + variable remuneration on the basis of 100% achievement of objectives). The pension contribution is paid over to an external pension insurer. The insurance benefits that result from the contribution payments constitute the Company's pension commitment to the Board member.

Board members appointed before 2009 were transferred to the new system. They kept their pension entitlement from the previous defined benefit plan (fixed amount in euros) existing at the date of transfer on 31 December 2008, which was maintained as a vested pension. For their service years as of 1 January 2009, they receive an incremental pension benefit based on the defined contribution plan.

The Supervisory Board determines the relevant target pension level for pension commitments from defined benefit plans and defined contribution plans – also considering length of service on the Board – and takes account of the resultant annual and long-term cost for the Company.

The members of the Board of Management are also members of the Munich Re pension scheme, which is a defined contribution plan.

Benefits on termination of employment

Board members appointed before 2006 and entitled to an occupational pension, disability pension, reduced occupational pension or improved vested benefits continue to receive their previous monthly basic remuneration for a period of six months after retiring or leaving the Company.

Occupational pension

Board members appointed for the first time before 1 April 2012 are entitled to an occupational pension on retiring from active service with the Company after reaching the age of 60 or, at the latest, at the end of the calendar year in which they turn 65.

Board members appointed for the first time as from 1 April 2012 are entitled to an occupational pension on retiring from active service with the Company after reaching the age of 62 or, at the latest, at the end of the calendar year in which they turn 67.

Benefit:

- In the case of defined contribution plans: Annuity based on the policy reserve or payment of the policy reserve as a lump sum.
- In the case of a combination between defined benefit plans and defined contribution plans: Vested pension from the defined benefit plan and annuity from the policy reserve under the defined contribution plan or payment of a lump sum.

Disability pension

Disability in this respect means that the member of the Board of Management is likely to be unable, or has already been unable, to exercise his or her position in the manner foreseen without health impairment for six months without interruption, as a result of illness, injury, or emaciation beyond what is normal for his or her age. The entitlement to a disability pension does not arise until expiry of remuneration payment obligations after a mutual agreement to terminate the employment contract, as a result of non-extension or revocation of their appointment to the Board or where the contract of employment has been terminated by the Company due to permanent incapacity.

Benefit:

- In the case of defined contribution plans: 80% of the insured occupational pension up to the age of 59 or 61, with subsequent occupational pension.
- In the case of a combination between defined benefit plans and defined contribution plans: Vested pension from the defined benefit plan and 80% of the insured occupational pension benefit up to age 59, with subsequent occupational pension based on the defined contribution plan.

Reduced occupational pension on early retirement

Board members appointed before 1 January 2017 are entitled to a reduced occupational pension on early retirement if the contract of employment is terminated as a result of non-extension or revocation of their appointment without the Board members having given cause for this through a gross violation of their duties, or at their own request. The precondition is that the Board members have already passed the age of 50, have been in the employment of the Company for more than ten years when the contract terminates, and have had their appointment to the Board of Management extended at least once.

Benefit:

- In the case of defined contribution plans: Annuity based on the policy reserve or payment of the policy reserve as a lump sum at the date the pension benefit is claimed.
- In the case of a combination between defined benefit plans and defined contribution plans: Entitlement of between 30% and 60% of pensionable basic remuneration, reduced by 2% for each year or part thereof short of the Board member's 65th birthday; the Company assumes payment of the difference between the monthly occupational pension and the monthly incremental pension from the external insurance.

Members of the Board of Management appointed for the first time after 1 January 2017 do not have any entitlement to a reduced occupational pension on early retirement.

Vested benefits for occupational pension, disability pension and surviving dependants

Vested benefits are paid upon the Board member reaching the age of 60 or 62, in the case of disability, or in the event of the Board member's death.

Vested benefits under the German Company Pension Act (BetrAVG):

Board members have vested benefits under the Company Pension Act if they leave the Company before reaching the age of 60 or 62 and the pension commitment has existed for at least five years previously.

Benefit:

- In the case of defined contribution plans: Annuity based on the policy reserve or payment of the policy reserve as a lump sum at the date the insured event occurs.
- In the case of a combination between defined benefit plans and defined contribution plans: The entitlement under the vested pension is a proportion of the vested pension based on the ratio of actual service with the Company to the period the Board member would have worked for the Company altogether up to the fixed retirement age (m/n-tel process, Section 2(1) of the Company Pension Act). The entitlement from the incremental pension comprises the

pension benefits fully financed under the insurance contract up to the occurrence of the insured event based on the pension contributions made up to the date of leaving the Company (Section 2(5a) of the Company Pension Act). This entitlement is paid out as an annuity or a lump sum.

Provision for surviving dependants

In the event of the death of a Board member during active service, the surviving dependants receive the previous monthly basic remuneration for a period of six months if the deceased was appointed to the Board of Management before 2006. In the case of Board members appointed for the first time as from 2006, the previous monthly basic remuneration is paid to the beneficiaries for a period of three months. If the Board members death occurs after retirement, the surviving dependants receive the previous monthly occupational pension for a period of three months, provided the marriage/registration of the civil partnership took place and/or the child was born before the Board member started drawing the occupational pension. Surviving spouses and registered civil partners normally receive a pension amounting to 60% of the defined benefit or insured occupational pension; half orphans receive 20% and complete orphans 40%. The total amount may not exceed the occupational pension of the Board member. If the Board member's occupational pension was reduced owing to early retirement, benefits for surviving dependants are based on the reduced occupational pension.

List of abbreviations

ABS	Asset-backed securities	IFRS	International Financial Reporting Standard
Acatech	German Academy of Science and Engineering	IM	Internal risk model
AF	Actuarial function	Inc.	Incorporated
AG	Aktiengesellschaft (German joint-stock company)	IoT	Internet of Things
AIF	Alternative investment fund	IRM	Integrated Risk Management
AktG	German Stock Corporation Act	IRR	Internal risk report
ALM	Asset-liability management	ISDA	International Swaps and Derivatives Association
AMG	Asset management company	IT	Information technology
AMSB	Administrative, management or supervisory body	KPMG	Klynveld Peat Marvick Goerdeler International Cooperative ("KPMG International")
AvOF	Available own funds	LB	Landesbank
BaFin	German Federal Financial Supervisory Authority	LLC	Limited liability company
BetrAVG	German Company Pension Act	LRFA	Linear regression finance approach
Bp	Basis point	Ltd.	Limited
Bps	Basis points	M&A	Mergers and acquisitions
CCY	Currency	MAR	Market Abuse Regulation (Regulation (EU) No 596/2014 of the European Parliament and of the Council)
CDS	Credit default swap	MBS	Mortgage-backed securities
CEE	Credit-equivalent exposure	MCR	Minimum capital requirement
CEFS	Center for Entrepreneurial and Financial Studies	MEAG	MUNICH ERGO Asset Management GmbH
CEO	Chief Executive Officer	MgVG	German Act on the Co-Determination of Employees in Cross-Border Mergers
CFO	Chief Financial Officer	MR GCP	Munich Re Group Compensation Policy
CIC	Complementary Identification Code	MTS	Mobile TeleSystems
CMS	Compliance management system	NAG	Neue Assekuranz Gewerkschaft
COBIT	Control Objectives for Information and Related Technology	NAVs	Net asset values
COO	Chief Operating Officer	NSLT	Not similar to life insurance techniques
COSO	Committee of Sponsoring Organizations of the Treadway Commission	N.V.	Naamloze vennootschap
CRO	Chief Risk Officer	OIS	Overnight index swap
CTA	Contractual trust agreement	OIST	Okinawa Institute of Science and Technology
DCGK	German Corporate Governance Code	OJSC	Open joint-stock company
DKV	Deutsche Krankenversicherung	OpRisk	Operational risk
EC	European Community	ORSA	Own risk and solvency assessment
EEA	European Economic Area	OTC	Over the counter
EIOPA	European Insurance and Occupational Pensions Authority	p.a.	per annum
ENP	Economic neutral position	plc	Public limited company
EPIFP	Expected profit included in future premiums	Pty. Ltd.	Proprietary Limited
ERV	Europäische Reiseversicherung	PVFP	Present value of future profits
ESG	Environmental, social, governance	QRT	Quantitative reporting template
EU	European Union	RI	Reinsurance
EUR	Euro	RMF	Risk management function
FAS	Financial accounting standard	RORAC	Return on risk-adjusted capital
GC	Group Committee	S&P	Standard & Poor's
GCCO	Group Chief Compliance Officer	SA	Société anonyme
GComp	Group Compliance	SCR	Solvency capital requirement
GmbH	Gesellschaft mit beschränkter Haftung (German limited liability company)	SE	Societas Europaea
GRC	Group Risk Committee	SF	Standard formula
Group CRO	Group Chief Risk Officer	SFCR	Solvency and Financial Condition Report
HGB	German Commercial Code	SFR	Special and Financial Risks
HSB	Hartford Steam Boiler	SII	Solvency II
IAS	International Accounting Standard	StratC	Strategy Committee
IBRD	International Bank of Reconstruction and Development	UCITS	Undertakings for collective investment in transferable securities
ICS	Internal control system	UK	United Kingdom
		US GAAP	United States Generally Accepted Accounting Principles
		USA	United States of America
		USD	US dollar

VAG	German Insurance Supervision Act
VaR	Value at risk
VersVergV	German Remuneration Regulation for Insurance Companies
WpÜG	German Securities Acquisition and Takeover Act

Imprint/Service

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Responsible for content
Integrated Risk Management

Editorial deadline:
11 May 2017

Editorial note
Munich Re publications generally refer to all persons in the masculine form to make reading easier. Such references should be understood as applying to both men and women, according to context.

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