

News Release



AVIVA PLC 2017 PRELIMINARY RESULTS ANNOUNCEMENT

Mark Wilson, Group Chief Executive Officer, said:



In 2017, Aviva delivered growth in profits, in dividends, in capital and in cash. Aviva grew operating earnings per share by 7% and our full year dividend by 18%, the fourth consecutive year of double-digit dividend growth.

Our largest market, the UK, has gone from strength to strength, growing sales, market share and profit. For Aviva, the UK is a dependable and growing business.

Aviva has broad-based growth, with six of our eight major markets delivering double-digit profit improvement. We now have a collection of strong and growing businesses.

This year, we expect to deploy £2 billion of excess cash, including £900 million in debt reduction, in excess of £500 million of capital returns to shareholders and about £600 million for bolt-on acquisitions.

We continue to invest in our businesses and in particular on priorities such as digital to make our products and services easier for our customers.

Aviva is now a simpler, stronger group and we are growing. Our strategy is paying dividends.



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| Profit | Operating EPS^{1,2} up 7% to 54.8 pence (2016: 51.1 pence) Operating profit³ up 2% to £3,068 million (2016: £3,010 million) Operating profit from eight major markets excluding divestments up 6% to £3,508 million (2016: £3,300 million) IFRS profit after tax £1,646 million (2016: £859 million) |
|----------------|--|
| Dividend | 2017 total dividend per share up 18% to 27.4 pence (2016: 23.3 pence) Dividend payout ratio 50%, 2017 target delivered |
| Capital | Solvency II capital surplus £12.2 billion (2016: £11.3 billion) Solvency II cover ratio^{1,4} 198% (2016: 189%) Operating capital generation¹ £2.6 billion (2016: £3.5 billion) IFRS net asset value per share¹ 423 pence per share (2016: 414 pence) |
| Cash | Cash remittances¹ up 33% to £2,398 million (2016: £1,805 million) Group centre liquidity £2.0 billion (2016: £1.8 billion) |
| Growth | General insurance net written premiums up 11% to £9,141 million (2016: £8,211 million) Value of new business¹ up 25% to £1,243 million (2016: £992 million) Aviva Investors fund management revenue up 14% to £577 million (2016: £506 million) Total group assets under management¹ (AUM) up 9% to £490 billion (2016: £450 billion) |
| Combined ratio | • General insurance combined operating ratio ¹ 96.6% (2016: 94.2% ⁵) |

persion schemes in surplus of £1.5 billion (2016: £1.1 billion). These exclusions have no impact on Solvency II surplus of £1.5 billion includes the proform almosts of the disposals of Friends Provident International Limited (£0.1 billion increase to surplus) and the Italian Avipop Assicuration is p.A (£0.1 billion increase to surplus). The stimated Solvency II position includes the proform adjustments for the impact of the announced disposal of Antarius and the future impact of changes to UK tax rules announced by the Chancellor of the Exchequer's Autumn statement, which was removed following clarification in the 13 July 2017 Finance Bill. The 31 December 2016 Solvency II position includes an adverse impact of a notional reset of the transitional provisions (TMTP) to reflect interest rates at 31 December 2016 60.4 billion decrease to surplus.

5 2016 excludes the impact of the change in the Ogden discount rate of £475 million, which was recognised as an exceptional adjusting item. 2016 also excludes the impact from an outward quota share reinsurance agreement written in 2015 and completed in 2016 in Aviva Insurance Limited (AL).

This is an Alternative Performance Measure (APM) which provides useful information to enhance the understanding of financial performance. Further details of this measure are included in the 'Other information' section of the Analyst Pack. This is an internative relation of the Group adjusted operating profit APM. Further details of the mesure are included in the 'Other information' section of the Analyst Pack. Group adjusted operating profit is a non-GAPP Alternative Performance Measure (APM) which is not bound by the requirements of IFRS. The estimated Solvency II position represents the shareholder view. This excludes the contribution to Group Solvency Capital Requirement (SCR) and Group Own Funds of fully ring fenced with-profits funds of £3.3 billion (2016: £2.9 billion) and staff

Key financial metrics

Foreword

All references to Operating profit^{1.7} represent 'Group adjusted operating profit' as an Alternative Performance Measure (APM) which is not bound by IFRS. Further explanation can be found in the 'Other information' section of the Analyst Pack. All currency movements are calculated on unrounded numbers so minor rounding differences may exist.

| Operating profit | | | | |
|---|-------------------|-----------------|--------------------------------------|---|
| | | 2017 £m | 2016 £m | Sterling % change |
| Life business | | 2,882 | 2,642 | 9% |
| General insurance and health ² | | 700 | 833 | (16)% |
| Fund management Other ³ | | 164 (678) | 138 | 19% |
| Total ² | | 3,068 | (603) 3,010 | (12)% 2% |
| | | | | |
| Operating earnings per share ^{2,4,7} | villessis5.7 | 54.8p | 51.1p | 7% |
| Cash remittances ^{5,7} and Operating Capital Generation (OCG): Solvence | y II basis°, | 2017 | | 2016 |
| | Cash | | 1.0.10 | |
| | Remittances £m | OCG C £bn | ash Remittances £m | OCG £bn |
| United Kingdom ^{5,6} | 1,800 | 2.8 | 1,187 | 2.8 |
| Canada | 55 | (0.1) | 130 | 0.3 |
| Europe ^{5,6} Asia & Aviva Investors | 485 58 | 0.9 0.1 | 449 39 | 1.0 |
| Other ⁸ | - 58 | (1.1) | | (0.6) |
| Total | 2,398 | 2.6 | 1,805 | 3.5 |
| Expenses | | | | |
| | | 2017 £m | 2016 £m | Sterling % change |
| Operating expenses ⁷ | | 3,778 | 3,408 | 11% |
| Integration & restructuring costs | | 141 | 212 | (33)% |
| Expense Base | | 3,919 | 3,620 | 8% |
| Operating expense ratio ⁷ | | 52.7% | 50.5% | 2.2pp |
| Value of new business: Adjusted SII basis ⁷ | | | | |
| | 2017 £m | 2016 £m | Sterling Co % change ⁶ | onstant currency % change ^e |
| United Kingdom | 527 | 429 | 23% | 23% |
| Europe | 533 | 429 | 24% | 17% |
| Asia & Aviva Investors | 183 | 134 | 37% | 33% |
| Total | 1,243 | 992 | 25% | 21% |
| General insurance combined operating ratio ^{7,9} | | | | |
| | | 2017 | 2016 | Change |
| United Kingdom ⁶ Canada | | 93.9% 102.2% | 106.3% 93.0% | (12.4)pp 9.2pp |
| Europe ⁶ | | 93.3% | 95.1% | (1.8)pp |
| Combined operating ratio | | 96.6% | 100.1% | (3.5)pp |
| IFRS profit after tax | | | | |
| | | 2017 £m | 2016 £m | Sterling % change |
| IFRS profit after tax | | 1,646 | 859 | 92% |
| Basic earnings per share | | 35.0p | 15.3p | 129% |
| Dividend | | | · | |
| | | 2017 | 2016 | Sterling % change |
| Final dividend per share | | 19.00p | 15.88p | 20% |
| Total dividend per share | | 27.40p | 23.30p | 18% |
| Capital position | | | | |
| | | 2017 | 2016 | Sterling % change |
| Estimated Shareholder Solvency II cover ratio ^{7,10,} | | 198% | 189% | 9.0pp |
| Estimated Solvency II surplus ^{7,10} | | £12.2bn | £11.3bn | 8% |
| Net asset value per share ⁷ | | 423p | 414p | 2% |
| Group adjusted operating profit is a non-GAAP Alternative Performance Measure (APM) which is not bound by the requirements of IFRS. 2016 excludes the impact of the change in the Ogden discount rate of £475 million, which has been recognised as an exceptional adjusting item. 2016 also exa and completed in 2016 in Aviva Insurance Limited (AIL). Other induces other operations corrorate centre costs and group debt and other interest costs including courson payments in respect of the direct canital in | | | insurance agreement | written in 2015 |

and completed in 2016 in Aviva Insurance Limited (ALL). Other includes other operations, corporate centre costs and group debt and other interest costs, including coupon payments in respect of the direct capital instrument (DCI) and tier 1 notes (net of tax). Net of tax, non-controlling interests, preference dividends, coupon payments in respect of the direct capital instrument (DCI) and tier 1 notes (net of tax). The calculation of earnings per share uses a weighted average of 4,041 million (2016: 4,051 million) ordinary shares in issue, after deducting treasury shares. Cash remitted to Group and Solvency II operating capital generation are managed at legal entity level. As Ireland constitutes a branch of the United Kingdom business, cash remittances from Ireland were not aligned to the new management structure within Europe, but they were reported within United Kingdom. Following the launch of UK Insurance which brings together UK Life, UK General Insurance and UK Health into a combined business, the Ireland Life and General Insurance businesses have been aligned to the new management structure and 4

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Onlien includes outper solub activities and solub prevention and earned basis. Comparatives have been realigned to reflect this change. The combined operating ratio is now reported on an earned basis. Comparatives have been realigned to reflect this change. The estimated Solvency II position represents the shareholder view. This excludes the contribution to Group Solvency Capital Requirement (SCR) and Group Own Funds of fully ring fenced with-profits funds of £3.3 billion/2016: £2.9 billion) and staff pension schemes in surplus of £1.5 billion/2016: £1.1 billion/10206: £1.1 billion/2016: £2.9 bi 10 during in particular and the standard public constraints and the s

Group Chief Executive Officer's report

| Overview | In 2017, Aviva delivered growth: in profits, in dividends, in capital and in cash. |
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| | Our headline results show broad-based growth. Operating earnings per share (EPS) ^{2,3} gained 7% to 54.8 pence <i>(2016⁵: 51.1 pence)</i> , operating capital generation ² remained strong at £2.6 billion <i>(2016: £3.5 billion)</i> , Solvency II capital surplus ^{2,4} rose to £12.2 billion <i>(2016: £11.3 billion)</i> and business unit cash remittances ² increased 33% to £2.4 billion <i>(2016: £1.8 billion)</i> . |
| | Operating profit ¹ increased 2% to £3,068 million (2016: £3,010 million). Excluding the impact of divestments, our eight major markets delivered a 6% increase in operating profit, with double-digit growth contributed by the UK, Aviva Investors, France, Poland, Ireland and Singapore. Operating profits also benefitted from a net positive impact from assumption changes in the UK. However, Canada reported a disappointing result reflecting adverse changes in prior year reserve development and higher current year claims inflation. We have implemented a detailed recovery plan in Canada, raising premium rates and taking actions on underwriting, claims, distribution and expense management. |
| | In light of our results, we have increased our total dividend 18% to 27.4 pence <i>(2016: 23.3 pence)</i> . This marks the fourth consecutive year of double-digit growth in the total dividend and we have reached our target of paying out 50% of operating EPS. |
| | Having successfully executed our plan to strengthen the balance sheet and focus Aviva on those businesses with the strongest fundamentals, we have increased our growth ambitions. Our 2017 results provide evidence that we are capable of delivering consistent growth in operating EPS and dividends. |
| Capital allocation | A key element of Aviva's strategy is allocating capital towards businesses and segments with the strongest returns and growth prospects. We made further progress on this strategic objective in 2017, announcing divestments that will result in our withdrawal from Spain, Taiwan and Friends Provident International. |
| | We have significantly simplified and focussed our geographic footprint over recent years, halving the number of markets in which we have operations. This process is now complete and we are no longer actively seeking to reduce our geographic footprint. As a result, Aviva's core business is now comprised of eight major markets and six strategic investments. |
| | Our major markets are the UK, France, Canada, Poland, Ireland, Italy, Singapore and Aviva Investors. These markets have structural drivers of demand underpinned by economic growth, demographics and regulation. Within these markets, Aviva has competitive strength in distribution, brand, capability and scale efficiency that allows us to deliver consistent growth and attractive returns. The major markets are currently responsible for virtually all of Aviva's operating profit and cash remittances. |
| | Our strategic investments are businesses where we are targeting long-term growth by working with leading local partners in populous countries with strong growth characteristics. Our strategic investment markets are China, Hong Kong, India, Turkey, Vietnam and Indonesia. While in aggregate these businesses make a modest contribution to Aviva's financial performance today, they are sources of long-term upside for operating profit, cash flow and value. |
| | Aviva's capital strength provides us with significant flexibility in terms of future capital allocation. Our Solvency II capital surplus ^{2,4} of £12.2 billion equates to a Solvency II cover ratio of 198%, well above our 150% to 180% working range. As a result, we have signalled plans to deploy £3 billion of excess cash in 2018 and 2019. |
| | Our priorities for deployment remain unchanged. Our objective is to use surplus cash to deliver sustainable benefits to our shareholders. For 2018, we have outlined our intent to repay approximately £900 million of expensive hybrid debt, saving more than £60 million in annual pre-tax interest expense. We have allocated approximately £600 million for bolt-on M&A, which includes the €130 million already committed to the Friends First acquisition in Ireland. And we have indicated that in excess of £500 million will be used for capital returns, which may include liability management, share buy-back or special dividends. |

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Group Chief Executive Officer's report continued

| Meeting our customers' needs | Aviva has made significant, tangible progress in delivering our True Customer Composite strategy in 2017. |
|---------------------------------|--|
| customers needs | In the UK, Aviva is unique as the only large-scale composite insurer with top three positions across multiple product lines. In 2017, we moved to a unified management structure for our life, general and health insurance businesses under the leadership of Andy Briggs. This change has helped us to increase the collaboration between different product teams and improve our focus on the customer. The strength of our franchises is evident, with large mandate wins driving higher new business volumes across our major product segments. We saw continued success in our partnership channels, expanding our leading position in the bank market and delivering a significant uplift in net flows into our advisor platform. Meanwhile, we made further strong progress in our direct to consumer business, growing net written premiums by 14% an we increased the number of customers in the UK who have more than one product with Aviva by approximately 300,000. |
| | Our strength in distribution and manufacturing is also helping to strengthen our composite position in markets outside the UK. In France, our new leadership team intends to align our high quality distribution franchises under a single Aviva brand to deepen customer relationships. In Ireland, we have maintained positive momentum in both sales volume and operating profit in 2017 and the acquisition of Friends First will move our market share to mid-teens across both life and general insurance. Italy has expanded IFA distribution and developed innovative hybrid products, which helped to underpin a doubling of value of new business and strong net fund flows. Singapore is drawing on our digital and distribution expertise to develop the Aviva Financial Advisors network, which has grown to more than 670 advisors. |
| Digital | Aviva seeks to play a leading role in the digital revolution of insurance and our intellectual property (IP) has had a significant impact on our business in the past 12 months. Our UK digital and direct business passed the £1 billion premium mark in 2017, delivering growth of 14%. Our digital IP also played a pivotal role in helping us to secure long-term relationships with HSBC in the UK and Tencent in Hong Kong. |
| | In 2017, we established Aviva Quantum, our artificial intelligence and global data science group, which now has 550 data scientists. This group has developed our Ask it Never IP, which allows us to reduce the number of questions we ask customers during the underwriting process, significantly improving their quote and buy experience. We are using this IP to develop a new generation of insurance products, called Aviva Plus. This proposition takes the subscription model and applies it to insurance and is expected to be progressively rolled out to our existing UK customers. |
| | In the next few years, we will continue to invest heavily to grow revenue and fully digitise our business. Through this, we are targeting improvements in efficiency and customer experience that we expect to lead to higher sales, better retention, expanding margins and in turn growing profit over the medium to long term. |
| Outlook | The streamlining of our geographic perimeter is complete and the strength of our franchises is beginning to shine through. As a result, we have upgraded and brought forward our growth ambitions, and are now targeting greater than 5% growth in operating EPS ^{2,3} from 2018. Together with our targets of £8 billion of cumulative remittances in 2016-2018 inclusive and increase in dividend payout ratio to 55-60% by 2020, we remain confident that we can continue to deliver cash flow plus growth for our shareholders. |

Mark Wilson Group Chief Executive Officer

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Chief Financial Officer's report

| Overview | In 2017, Aviva delivered growth in operating profit ¹ , generated increased cash flow, further strengthened our Solvency II cover ratio ^{2,4} and used excess cash and capital to repay debt and repurchase shares. |
|--|---|
| | Operating profit increased 2% to £3,068 million <i>(2016: £3,010 million)</i> while operating earnings per share (EPS) ^{2,3,5} advanced 7% to 54.8 pence <i>(2016: 51.1 pence)</i> . The Board of Directors has proposed a final dividend of 19.0 pence per share. This takes the full year dividend per share to 27.4 pence, an increase of 18% and meeting our 2017 dividend payout ratio target of 50% of operating EPS. |
| | IFRS profit after tax attributable to shareholders was £1,646 million and basic earnings per share 35.0 pence (2016: £859 million and 15.3 pence respectively). The year-on-year movement in these measures reflects the one-off exceptional charge of £475 million incurred in 2016 as a result of the change in the Ogden discount rate, a reduction in integration and restructuring expenses and gains on divestitures, offset by a remeasurement loss of £118 million arising from our recent announcement to dispose of Friends Provident International, which has been measured at fair value. |
| | In 2017, Aviva repaid debt of US\$650 million and returned capital to shareholders via a £300 million share repurchase program. With our Solvency II cover ratio remaining above our working range, we have plans to reduce hybrid debt by a further £900 million in 2018 and will consider other opportunities to deploy surplus capital to strengthen our businesses and enhance long-term shareholder returns. |
| | During 2017, Aviva announced divestments of joint ventures in France, Spain, Taiwan, and Italy as well as the sale of Friends Provident International. Aviva invested in Vietnam, where we acquired 100% ownership of our joint venture with VietinBank, and we announced the acquisition of Friends First in Ireland, strengthening our position in the Irish life insurance market. In Hong Kong, regulatory approval was recently granted for our joint venture with Tencent and Hillhouse. |
| | In 2017, our major markets demonstrated their competitive strength by growing assets, improving net flows and increasing premium volumes. Our priority is to accelerate the performance of our businesses and translate this into attractive and dependable growth in operating profit and dividends. |
| Operating performance: Major markets | Aviva currently derives virtually all of its operating profit and cash flow from eight major markets: UK, Ireland, France, Poland, Italy, Canada, Singapore and Aviva Investors. This is where Aviva believes it is currently best positioned to compete on the basis of our scale, brand and leading distribution. |
| - | The operating profit from these major markets (excluding divestitures) totalled £3,508 million (2016: £3,300 million), an increase of 6%. Growth was supported by higher operating profit from our businesses in the UK, Aviva Investors, France, Ireland, Poland and Singapore. These more than offset the reduction in operating profit from Canada. |
| United Kingdom | Aviva is unique as the only large-scale composite insurer in the UK market with a top three share across multiple product lines. In UK Insurance operating profit increased 13% to £2,201 million <i>(2016: £1,946 million)</i> due to attractive growth across most of our core product lines together with favourable development of reserves. |
| | In long-term savings, operating profit rose 30% to £185 million (2016: £142 million) reflecting higher assets under management (AUM) ² , stable in-force profit margin and strict management of acquisition costs, despite increases in new business sales. Net fund flows almost doubled to £5.6 billion (2016: £2.9 billion) due to mandate wins in workplace pensions together with a sharp increase in net flows into the advisor platform, where AUM increased by 56% to £20 billion. |
| | Operating profit from annuities and equity release grew 11% to £725 million (2016: £656 million) due to |

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| United Kingdom (continued) | Life protection saw a reduction in operating profit ¹ to £227 million <i>(2016: £242 million)</i> . While increased volumes and margins supported growth in new business contribution from both the consumer and group protection portfolios, the result from the existing business declined due to unfavourable claims experience in group protection. |
|--|---|
| | General insurance made continued progress in 2017, increasing net written premiums by 4% while further refining product and channel mix. Operating profit grew 4% to £408 million (<i>2016: £392 million</i>) due to improved underwriting. Excluding the impact of the change in Ogden discount rate in the prior year, the combined operating ratio ^{2,6} was stable at 93.9%, helping to generate underwriting result ² of £246 million (<i>2016: £232 million</i>). The long term investment return was consistent with the prior year at £163 million (<i>2016: £162 million</i>). In 2017, we announced the extension and expansion of our relationship with HSBC in the UK, which is expected to provide additional impetus for growth in in 2018. |
| | Our legacy business of mature savings products maintained operating profit at £331 million (2016: £332 million). AUM ² in the legacy portfolio remained stable, with positive investment markets offsetting net fund outflows as policies matured. We continue to expect operating profit from the legacy business to decline gradually over the medium term. |
| | In addition to the above core product lines, we have made changes to assumptions and methodology in 2017. The net effect of these changes increased to £290 million <i>(2016: £151 million)</i> . This included changes in relation to longevity reserves, partially offset by increased provisions in other areas including expenses. |
| | Aviva's UK business has unrivalled strength and depth and provides a blueprint for our digital composite strategy. Looking forward, our priorities are to grow operating profit while generating significant levels of free cash-flow that can be invested or returned to deliver additional long-term benefits for shareholders. |
| | The UK offers structural growth drivers including the shift in assets and savings flows from defined benefit (DB) pensions into defined contribution (DC), rising auto-enrolment pension contribution rates and the trend for corporates to seek insured solutions to manage (and outsource) their DB pension schemes. By leveraging the strength of our relationships with customers and partners, we are focussed on extending our track record of growth via higher net flows, increases in premium volumes and continued discipline in managing expenses. |
| Aviva Investors | Aviva Investors is targeting double digit growth by transforming its position and becoming a leading asset manager of both third party and Aviva assets. It is achieving this by focussing on three key areas: |
| | Providing solutions – where the AIMS range of funds seeks to achieve investors' desired outcomes with reduced volatility. Real Assets expertise – where our capability and expertise in real estate and infrastructure origination supports both the growing need of Aviva's annuity portfolio and the requirements of external investors, including defined benefit pension schemes. Improving investment performance – where we can capitalise on our strong fund performance track record, the strength of the Aviva brand and the acquisition of additional asset management talent to increase our presence in traditional asset classes. |
| | In 2017, Aviva Investors achieved another year of strong growth, with fund management operating profit rising 21% to £168 million (2016: £139 million). Revenue grew 14% to £577 million (2016: £506 million) due to higher average AUM, an increase in revenue margin associated with the expansion of the third party business and greater levels of infrastructure asset origination. Operating expenses ² rose slower than revenues at 11%, leading to an improvement in the operating margin to 29% (2016: 27%). |
| | AUM rose to £353 billion (2016: £345 billion). Net inflows of £1.6 billion (2016: £1.0 billion) benefitted from higher inflows into internal core propositions while market and foreign exchange movements added £5.9 billion to AUM. |
| | Looking forward, the priority for Aviva Investors is to continue the targeted shift toward external funds and Aviva core propositions, along with increased origination activity in infrastructure and real estate financing. This should further increase revenue margins and operating profits and more than offset the net outflow in legacy Aviva life products that are no longer actively marketed. |
| 2 This is an Alternative Performance Measure | AAP Alternative Performance Measure (APM) which is not bound by the requirements of IFRS. (APM) which provides useful information to enhance the understanding of financial performance. Further details of this measure are included in the 'Other information' section of the Analyst Pack. ted on an earned basis. Comparatives have been realigned to reflect this change. |

| Ireland | In Ireland, Aviva is a composite insurer with a leading market position in general insurance and a top four position in life insurance. Our strategy in Ireland is to leverage the strong capabilities of the Aviva group, bringing together leading digital propositions and a large-scale composite business model to capitalise on Aviva's strong brand recognition. |
|---------|--|
| | In 2017, Aviva Ireland delivered operating profit ¹ of £86 million (<i>2016: £80 million</i>) an increase of 18% after adjusting out the contribution from the health insurance business divested in 2016. In general insurance, net written premiums increased 8% to £436 million (<i>2016: £378 million</i>) and the combined operating ratio ^{2,6} improved by one percentage point to 91.4%. This underpinned growth in general insurance operating profit to £53 million (<i>2016: £48 million</i>). In life insurance, operating profit was £33 million (<i>2016: £32 million</i>) with a modest increase in sales volumes offset by higher investment management charges. |
| _ | Looking forward, the priority in Ireland is to maintain underwriting discipline and continue to develop our composite, multi-product franchise with brokers, partners and customers. We recently announced the acquisition of Friends First for €130 million (subject to regulatory approval), increasing the scale of our life insurance business. |
| France | In France, Aviva has strong distribution and a composite footprint, with increased brand recognition providing an opportunity to expand our presence with customers. |
| | France operating profit was flat in local currency terms at £529 million <i>(2016: £499 million)</i> . However, this reflected a partial year contribution from Antarius, which was sold to Societe Generale in April 2017. Excluding Antarius, operating profit increased 13% in local currency terms to £507 million <i>(2016: £421 million)</i> . |
| | In life insurance, operating profit excluding Antarius increased 8% in local currency to £403 million <i>(2016: £351 million)</i> . Fee revenues benefitted from higher average AUM ² and our results were further supported by the continued evolution of business mix towards protection and unit-linked products. |
| | In general insurance, operating profit gained 37% to £104 million (2016: £70 million). Net written premiums increased 3% to £1,053 million (2016: £957 million) due to growth in direct personal lines, while lower weather related claims helped the combined operating ratio ⁶ improve to 94.5% (2016: 97.0%). |
| | In France, we intend to consolidate our distribution into four key channels under a single Aviva brand. This targets improved alignment and efficiency within the distribution network, strengthening Aviva's ability to develop relationships with customers in the French market across our composite product offering. |
| Canada | Aviva is a scale player in the Canadian general insurance market, with a circa 10% market share. We have a leading position in the broker channel and, following our recent acquisition of RBC General Insurance (RBCGI), have expanded our presence into the direct and bank channels. Canada has provided attractive returns on capital in most years and our current positioning provides a long-term opportunity to be a leader in the general insurance market while seeking to develop elements of a composite footprint for the benefit of customers. |
| | In 2017, Canada had a very challenging year, with operating profit falling to £46 million (2016: £269 million). Net written premiums grew 15% to £3,028 million (2016: £2,453 million) due to a full 12 month contribution from RBCGI (acquired in July 2016) and long term investment return rose to £115 million (2016: £105 million). However, the underwriting result deteriorated from a profit of £168 million in 2016 to a loss of £64 million in 2017. |
| | The increase in the combined operating ratio ⁶ to 102.2% (2016: 93.0%) was attributable to adverse prior year reserve development across auto and property insurance portfolios together with weaker accident year profitability in the auto insurance market, where bodily injury claims inflation rose sharply. In 2016, prior year reserve releases added £130 million to operating profit, while in 2017, reserves were strengthened by £37 million. The underwriting result in Canada also suffered from heightened levels of large losses in the commercial insurance portfolio, while weather and natural catastrophe claims remained at elevated levels. |
| | Looking forward, the priority in Canada is to restore operating profit to historical levels. We have undertaken a number of remedial actions, including increasing premium rates across a number of product classes. Our medium term objective is to return our combined operating ratio to a 94-96% target range. However, the impact of these actions may take time to be reflected in our results, and our combined operating ratio is likely to remain above our target range in 2018 and 2019. |

Group adjusted operating profit is a non-GAAP Alternative Performance Measure (APM) which is not bound by the requirements of IFRS.
 This is an Alternative Performance Measure (APM) which provides useful information to enhance the understanding of financial performance. Further details of this measure are included in the 'Other information' section of the Analyst Pack.
 The combined operating ratio is now reported on an earned basis. Comparatives have been realigned to reflect this change.

| Poland | Aviva is one of the leading composite insurers in Poland, with a number two position in life insurance underpinned by strong multi-channel distribution. |
|--------------------------|---|
| | Aviva Poland increased operating profit ¹ by 12% in local currency to £177 million (2016: £140 million). In life insurance, operating profit rose 8% to £156 million (2016: £132 million) while general insurance operating profit was £21 million (2016: £8 million). |
| | Growth was supported by higher average AUM ² in life insurance helped by improved productivity in our direct sales force and higher retention. In general insurance, increased volumes in direct retail and commercial lines together with lower motor claims frequency helped to support growth. Operating profit from both the life insurance and general insurance businesses also benefitted from consolidating the joint venture with Bank Zachodni WBK SA for the first time in 2017. |
| | The emphasis in Poland is maintaining positive momentum in the life insurance business and continuing to build scale across the composite. |
| Italy | Aviva has a composite position in the Italian market supported by joint ventures and distribution relationships with leading banks and a growing franchise among independent financial advisors. We have an opportunity to deploy our digital expertise in Italy to further strengthen our propositions for customers and distribution partners. |
| | Aviva Italy has generated strong growth in life new business volumes and delivered £2.3 billion of net fund inflows reflecting the success of their hybrid product and expansion of the distribution footprint. However, this also gave rise to short-term strain in profitability against what was a record result in 2016. As a result operating profit from Aviva's Italian business was stable in 2017 at £213 million (<i>2016: £212 million</i>), despite a 7% benefit from foreign exchange translation. In life insurance, operating profit of £168 million (<i>2016: £170 million</i>) represented an 8% decline in local currency terms. General insurance operating profit was stable at £45 million (<i>2016: £42 million</i>), reflecting an increase in net written premiums to £412 million (<i>2016: £395 million</i>) and a slight deterioration in combined operating ratio ^{2,6} to 94.2% (<i>2016: 92.5%</i>). |
| | Aviva Italy is a leader in the market in terms of product design and this is translating into attractive new business volumes and net inflows. We remain focussed on strengthening our strategic positioning in Italy by expanding distribution and increasing emphasis on our composite business model. |
| Singapore | We are a major player in the Singapore life and health insurance market and our strategy is to encourage the evolution of distribution in the market towards financial advisors. We believe this will benefit customers, providing greater convenience, increased choice and superior value for money. Aviva Financial Advisors now has more than 670 financial advisors, to whom we provide technology, compliance and administrative support. Our ambition is the further expand this channel, where Aviva is a leading provider of long-term savings and protection products. |
| | In 2017, Singapore delivered operating profit of £110 million (2016: £100 million), an increase of 5% in local currency terms. Life insurance operating profit of £118 million (2016: £112 million) was stable in local currency terms. Aviva's financial advisor network began to build momentum in new business production, increasing value of new business ² by 24% to £123 million. In general insurance and health, operating losses narrowed to £8 million (2016: £12 million). |
| Strategic investments | In addition to its major markets, Aviva has strategic investments which are managed to produce long-term growth in operating profit and value. These strategic investments are in China, Hong Kong, Turkey, India, Vietnam and Indonesia. Within this, we are currently delivering attractive and growing profits in our joint ventures in China and Turkey, however these are offset by losses from less mature businesses in Indonesia and Vietnam, coupled with our acceleration of investment into Digital. |
| | |

Group adjusted operating profit is a non-GAAP Alternative Performance Measure (APM) which is not bound by the requirements of IFRS.
 This is an Alternative Performance Measure (APM) which provides useful information to enhance the understanding of financial performance. Further details of this measure are included in the 'Other information' section of the Analyst Pack.
 The combined operating ratio is now reported on an earned basis. Comparatives have been realigned to reflect this change.

| Capital & cash | At 31 December 2017, Aviva's Solvency II capital surplus ^{2,4} was £12.2 billion (2016: £11.3 billion), equivalent to a cover ratio ^{2,4} of 198% (2016: 189%). We increased our Solvency II cover ratio by 9 percentage points, whilst also paying off approximately £500 million of subordinated debt and completing a £300 million share repurchase programme during 2017. Operating capital generation ² of £2.6 billion (2016: £3.5 billion) remained well above underlying levels due to benefits associated with merging legal entities in the UK and other actions as we continue to adapt to the Solvency II regime. Underlying capital generation remained stable at £1.7 billion (2016: £1.7 billion), despite higher premium volumes in general insurance, increased new business sales in life insurance, lower profitability from our Canadian business and the impact of divestitures. Cash remittances ² from our business units were £2,398 million (2016: £1,805 million). The increase in remittances was mainly attributable to the UK, which contributed £1,800 million (2016: £1,187 million). Remittances from the UK general insurance business increased and special remittances from the life business arising from the Friends Life integration doubled to £500 million. Remittances from Europe of £485 million (2016: £449 million) and Aviva Investors of £58 million (2016: £39 million) both grew in conjunction with operating profit progression while Canada's weaker results led to a decline in remittances to £55 million (2016: £130 million). |
|----------------|---|
| | At our Capital Markets Day event in Poland in November 2017, we upgraded our target for total cash remittances to Group centre over the three year period from 2016 to 2018 inclusive to £8 billion (previously £7 billion). With cumulative remittances inclusive of announced divestiture proceeds at £5.4 billion, we remain on track to deliver this target. |
| | Aviva's Group centre cash resources are £2.0 billion (<i>February 2017: £1.8 billion</i>). Our intention is to maintain this in a range of £1.0 billion to £1.5 billion over time. In view of our surplus capital and liquidity position and expected level of Group centre cash receipts over the coming year, we anticipate having £3 billion available for deployment in 2018 and 2019. |
| | Our priorities for deployment of surplus cash and capital remain unchanged. We prioritise profitable organic growth in our existing businesses. After allowing for this, we will look to reduce debt balances, consider bolt- on acquisitions and provide additional capital returns. |
| | In 2018, we have signalled our intention to reduce hybrid debt by £900 million. We are targeting more than £500 million in additional capital returns, incorporating liability management and returns to shareholders. In this regard, we have the ability to cancel preference shares at par value ⁷ through a reduction of capital, subject to shareholder vote and court approval. The preference shares carry high coupons that are not tax-deductible and they will not count as regulatory capital from 2026. As we evaluate the alternatives, one of the things we are considering is how to balance the interests of ordinary and preferred shareholders. We have committed €130 million to acquire Friends First in Ireland and have further appetite for bolt-on acquisitions in our major markets. Any unused M&A budget will be diverted to further reduce debt balances or fund additional returns. |
| Outlook | Having strengthened our balance sheet and streamlined our business, Aviva is now at a turning point in terms of our capacity for growth. Our eight major markets are Aviva's strongest businesses, with leading distribution, brand strength, scale efficiency and underwriting expertise driving attractive growth potential. We continue to invest in our businesses to build on Aviva's competitive advantage. We are strengthening our capabilities in data science and digital innovation to deliver leading propositions for customers. This is already providing tangible results in terms of engagement with customers and distribution partners. We have increased our investment in talent to support growth across the group, with notable examples being Aviva Investors, bulk-purchase annuity origination and Global Corporate and Specialty insurance. We also continue to develop our strategic partnerships in emerging markets. |
| | This investment requires us to prioritise and reallocate resources. We are initiating a zero-based budgeting programme and are seeking improvements in efficiency by reorganising functional processes through global shared services. We have also chosen to exit markets or product segments, with proceeds from these divestitures, together with special remittances from UK Insurance, providing capacity for investment. |

This is an Alternative Performance Measure (APM) which provides useful information to enhance the understanding of financial performance. Further details of this measure are included in the 'Other information' section of the Analyst Pack.
 The estimated Solvency II position represents the shareholder view. This excludes the contribution to Group Solvency Capital Requirement (SCR) and Group Own Funds of fully ring fenced with-profits funds of £3.3 billion (2016: £1.1 billion). These exclusions have no impact on Solvency II surplus. The estimated Solvency II position includes the proforma impacts of the disposals of Friends Provident International Limited (£0.1 billion increase to surplus) and the Italian Avipop Assicuration's Ape (Eto) Ibilion increase to surplus). The 31 December 2016 Solvency II position included proform adjustments for the impact of the announced disposal of Antarius and the future impact of changes announced by the Chancellor of the Exchequer's Autumn statement, which was removed following clarification in the 13 July 2017 Finance Bill. The 31 December 2016 Solvency II position also includes an adverse impact of a notional reset of the transitional provisions (TMTP) to reflect interest rates at 31 December 2016 £0.4 billion decrease to surplus.
 Par value includes accrued interest, arrears and in the case of the General Accident plc preference shares, issue premium.

| Outlook (continued) | We have outlined an ambition to maintain higher growth in operating EPS ^{2,3} . Aviva is now a more focussed business, with operations in countries that have attractive economic prospects and segments where there are sustainable and growing demand dynamics. Turning specifically to the drivers of our results and other large or notable items, we highlight the following factors for our 2018 results: |
|------------------------|---|
| | Organic growth – we are targeting greater than 5% growth in operating profit¹ from our major markets; Canada – we expect a partial recovery in operating profit to provide an approximately 1-2% incremental benefit for Group operating profit in 2018; Capital management – the debt retirement and share repurchase undertaken in 2017 are expected to support operating EPS growth by approximately 2% in 2018. Additional actions in 2018, including additional planned debt retirement, are expected to provide a further 1% to 1.5% benefit to operating EPS in 2018. Divestitures – the expected completion of disposals in Spain, Italy and Friends Provident International are expected to reduce operating EPS by approximately 4% in 2018, depending upon the timing of completion; Tax rate – our operating tax rate, which was 21% in 2017, may be higher in 2018, depending on business mix of actual profitability. This may reduce operating EPS growth by approximately 1-2%. With positive and negative items largely offsetting, we expect fundamental business performance in our major markets to drive our 2018 results. We are targeting greater than 5% growth in operating EPS subject to the impacts from foreign exchange, weather and other items. |

Thomas D. Stoddard Chief Financial Officer

Group adjusted operating profit is a non-GAAP Alternative Performance Measure (APM) which is not bound by the requirements of IFRS.
 This is an Alternative Performance Measure (APM) which provides useful information to enhance the understanding of financial performance. Further details of this measure are included in the 'Other information' section of the Analyst Pack.
 This measure is derived from the Group adjusted operating profit APM. Further details of this measure are included in the 'Other information' section of the Analyst Pack.

Notes to editors

All comparators are for the full year 2016 position unless otherwise stated.

Income and expenses of foreign entities are translated at average exchange rates while their assets and liabilities are translated at the closing rates on 31 December 2017. The average rates employed in this announcement are 1 euro = £0.88 (2016: 1 euro = £0.82) and CAD\$1 = £0.60 (2016: CAD\$1 = £0.56).

Growth rates in the press release have been provided in sterling terms unless stated otherwise. The following supplement presents this information on both a sterling and constant currency basis.

Cautionary statements:

This should be read in conjunction with the documents distributed by Aviva plc (the "Company" or "Aviva") through the Regulatory News Service (RNS). This announcement contains, and we may make other verbal or written "forward-looking statements" with respect to certain of Aviva's plans and current goals and expectations relating to future financial condition, performance, results, strategic initiatives and objectives. Statements containing the words "believes", "intends", "expects", "projects", "plans", "will," "seeks", "aims", "may", "could", "outlook", "likely", "target", "goal", "guidance", "trends", "future", "estimates", "potential" and "anticipates", and words of similar meaning, are forward-looking. By their nature, all forward-looking statements involve risk and uncertainty. Accordingly, there are or will be important factors that could cause actual results to differ materially from those indicated in these statements. Aviva believes factors that could cause actual results to differ materially from those indicated in forward-looking statements in the announcement include, but are not limited to: the impact of ongoing difficult conditions in the global financial markets and the economy generally; the impact of simplifying our operating structure and activities; the impact of various local and international political, regulatory and economic conditions; market developments and government actions (including those arising from the referendum on UK membership of the European Union); the effect of credit spread volatility on the net unrealised value of the investment portfolio; the effect of losses due to defaults by counterparties, including potential sovereign debt defaults or restructurings, on the value of our investments; changes in interest rates that may cause policyholders to surrender their contracts, reduce the value of our portfolio and impact our asset and liability matching; the impact of changes in short or long-term inflation; the impact of changes in equity or property prices on our investment portfolio; fluctuations in currency exchange rates; the effect of market fluctuations on the value of options and guarantees embedded in some of our life insurance products and the value of the assets backing their reserves; the amount of allowances and impairments taken on our investments; the effect of adverse capital and credit market conditions on our ability to meet liquidity needs and our access to capital; changes in, or restrictions on, our ability to initiate capital management initiatives; changes in or inaccuracy of assumptions in pricing and reserving for insurance business (particularly with regard to mortality and morbidity trends, lapse rates and policy renewal rates), longevity and endowments; a cyclical downturn of the insurance industry; the impact of natural and man-made catastrophic events on our business activities and results of operations; our reliance on information and technology

and third-party service providers for our operations and systems; the inability of reinsurers to meet obligations or unavailability of reinsurance coverage; increased competition in the UK and in other countries where we have significant operations; regulatory approval of extension of use of the Group's internal model for calculation of regulatory capital under the European Union's Solvency II rules; the impact of actual experience differing from estimates used in valuing and amortising deferred acquisition costs ("DAC") and acquired value of in-force business ("AVIF"); the impact of recognising an impairment of our goodwill or intangibles with indefinite lives; changes in valuation methodologies, estimates and assumptions used in the valuation of investment securities; the effect of legal proceedings and regulatory investigations; the impact of operational risks, including inadequate or failed internal and external processes, systems and human error or from external events (including cyber attack); risks associated with arrangements with third parties, including joint ventures; our reliance on thirdparty distribution channels to deliver our products; funding risks associated with our participation in defined benefit staff pension schemes; the failure to attract or retain the necessary key personnel; the effect of systems errors or regulatory changes on the calculation of unit prices or deduction of charges for our unit-linked products that may require retrospective compensation to our customers; the effect of fluctuations in share price as a result of general market conditions or otherwise; the effect of simplifying our operating structure and activities; the effect of a decline in any of our ratings by rating agencies on our standing among customers, brokerdealers, agents, wholesalers and other distributors of our products and services; changes to our brand and reputation; changes in government regulations or tax laws in jurisdictions where we conduct business, including decreased demand for annuities in the UK due to changes in UK law; the inability to protect our intellectual property; the effect of undisclosed liabilities, integration issues and other risks associated with our acquisitions; and the timing/regulatory approval impact, integration risk and other uncertainties, such as non-realisation of expected benefits or diversion of management attention and other resources, relating to announced acquisitions and pending disposals and relating to future acquisitions, combinations or disposals within relevant industries; the policies, decisions and actions of government or regulatory authorities in the UK, the EU, the US or elsewhere, including the implementation of key legislation and regulation. For a more detailed description of these risks, uncertainties and other factors, please see 'Other information - Shareholder Information -Risks relating to our business' in Aviva's most recent Annual Report. Aviva undertakes no obligation to update the forward looking statements in this announcement or any other forward-looking statements we may make. Forward-looking statements in this presentation are current only as of the date on which such statements are made.

Aviva plc is a company registered in England No. 2468686. Registered office St Helen's 1 Undershaft London EC3P 3DQ

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IFRS

Contents

| In th | Page | |
|-----------|--|--|
| | view | |
| | inancial metrics | 2 3 5 5 5 6 7 7 8 9 |
| 1 | Operating profit | 3 |
| 2 | Cash | 5 |
| i | Cash remitted to Group | 5 |
| ii | Excess centre cash flow | 5 |
| iii | Operating capital generation: Solvency II basis | 6 |
| iv | Solvency II future surplus emergence | 1 |
| 3 | Expenses | 8 |
| 4 | Value of new business | |
| 5 | Combined operating ratio | 10 |
| 6 | Business unit performance | 11 |
| i ii | United Kingdom | 11 |
| | International | 14 |
| iii | Asia | 17 |
| iv | Aviva Investors | 18 |
| 7 | Profit drivers | 19 |
| i | Life business | 19 |
| ii | General insurance and health | 22 |
| iii | Fund flows | 24 |
| 8 | Capital & assets summary | 25 |
| i | Summary of assets | 25 |
| ii iii | Net asset value | 26 27 |
| | Return on equity | |
| iv | Solvency II | 28 |
| | ncial supplement | 31 32 |
| A B | Income & expenses IFRS financial statements and notes | 32 37 |
| ь С | | 95 |
| D | Capital & liquidity | 95 |
| F | Analysis of assets | 99 122 |
| _ | VNB & Sales analysis r information | 122 |
| othe | | 130 |

Aviva plc Preliminary announcement 2017

| Overview | Income & expenses | IFRS | Capital & liquidity | Analysis of assets | VNB & Sales analysis | Other information |
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|

Key financial metrics

Foreword

Expenses

All references to Operating profit^{1,7} represent 'Group adjusted operating profit' as an alternative performance measure which is not bound by IFRS. Further explanation can be found in the Analyst Pack Glossary. All currency movements are calculated on unrounded numbers so minor rounding differences may exist.

Operating profit

| | 2017 £m | 2016 £m | Sterling % change |
|---|------------|------------|----------------------|
| Life business | 2,882 | 2,642 | 9% |
| General insurance and health ² | 700 | 833 | (16)% |
| Fund management | 164 | 138 | 19% |
| Other ³ | (678) | (603) | (12)% |
| Total ² | 3,068 | 3,010 | 2% |
| Operating earnings per share ^{2,4,7} | 54.8p | 51.1p | 7% |

| Cash remittances ^{3,4} | ' and Operating | Capital Generation | (OCG): Solvency | / II basis ^{5,7} | |
|---------------------------------|-----------------|--------------------|-----------------|---------------------------|------|
| | | | | | 2017 |

| | Cash Remittances £m | OCG £bn | Cash Remittances £m | OCG £bn |
|-------------------------------|------------------------|------------|------------------------|------------|
| United Kingdom ^{5,6} | 1,800 | 2.8 | 1,187 | 2.8 |
| Canada | 55 | (0.1) | 130 | 0.3 |
| Europe ^{5,6} | 485 | 0.9 | 449 | 1.0 |
| Asia & Aviva Investors | 58 | 0.1 | 39 | _ |
| Other ⁸ | _ | (1.1) | _ | (0.6) |
| Total | 2,398 | 2.6 | 1,805 | 3.5 |

2016

2017 2016 £rr Sterling % change £m Operating expenses 3,778 3,408 11% Integration & restructuring costs 212 (33)% 141 Expense Base 3,919 3,620 8% Operating expense ratio⁷ 50.5% 52.7% 2.2pp

Value of new business: Adjusted SII basis⁷

| | 2017 £m | 2016 £m | Sterling % change ⁶ | Constant currency % change ⁶ |
|---|------------|------------|-----------------------------------|--|
| United Kingdom | 527 | 429 | 23% | 23% |
| Europe | 533 | 429 | 24% | 17% |
| Asia & Aviva Investors | 183 | 134 | 37% | 33% |
| Total | 1,243 | 992 | 25% | 21% |
| General insurance combined operating ratio ^{7,9} | | | | |

| ocheratinsurance combined operating ratio | | | |
|---|--------|--------|----------|
| | 2017 | 2016 | Change |
| United Kingdom ⁶ | 93.9% | 106.3% | (12.4)pp |
| Canada | 102.2% | 93.0% | 9.2pp |
| Europe ⁶ | 93.3% | 95.1% | (1.8)pp |
| Combined operating ratio | 96.6% | 100.1% | (3.5)pp |
| | | | |

IFRS profit after tax

| | 2017 | 2016 | Sterling |
|--------------------------|-------|-------|----------|
| | £m | £m | % change |
| IFRS profit after tax | 1,646 | 859 | 92% |
| Basic earnings per share | 35.0p | 15.3p | 129% |
| Dividend | | | |

| | | Sterling |
|--------|--------|----------------------|
| 2017 | 2016 | % change |
| 19.00p | 15.88p | 20% |
| 27.40p | 23.30p | 18% |
| | 19.00p | 19.00p 15.88p |

Capital position

| | | | Sterling |
|---|---------|---------|----------|
| | 2017 | 2016 | % change |
| Estimated Shareholder Solvency II cover ratio ^{7,10,11,12} | 198% | 189% | 9.0pp |
| Estimated Solvency II surplus ^{7,10,11,12} | £12.2bn | £11.3bn | 8% |
| Net asset value per share ⁷ | 423p | 414p | 2% |

Group adjusted operating profit is a non-GAAP Alternative Performance Measure (APM) which is not bound by the requirements of IFRS 1

2016 excludes the impact of the change in the Ogden discount rate of £475 million, which has been recognised as an exceptional adjusting item. 2016 also excludes the impact from an outward quota share reinsurance agreement written in 2015 and completed in 2016 in Aviva Insurance Limited (ALL). 2

3

agreement written in 2015 and completed in 2016 in Aviva Insurance Limited (AIL). Other includes other operations, corporate centre costs and group debt and other interest costs, including coupon payments in respect of the direct capital instrument (DCI) and tier 1 notes (net of tax). Net of tax, non-controlling interests, preference dividends, coupon payments in respect of the direct capital instrument (DCI) and tier 1 notes (net of tax). The calculation of earnings per share uses a weighted average of 4,041 million (2016: 4,051 million) ordinary shares in issue, after deducting treasury shares. Cash remitted to Group and Solvency II operating capital generation are managed at legal entity level. As Ireland constitutes a branch of the United Kingdom business, cash remittances from Ireland were not aligned to the 4 5

result in the second of the se 6

This is an Alternative Performance Measure (APM) which provides useful information to enhance the understanding of financial performance. See the glossary for further details. Other includes other Group activities and Group diversification benefit The combined operating ratio is now reported on an earned basis. Comparatives have been realigned to reflect this change. 7

The estimated Solvency II position represents the shareholder view. This excludes the contribution to Group Solvency Capital Requirement (SCR) and Group Own Funds of fully ring fenced with-profits funds of £3.3 billion (2016: £2.9 billion) and staff pension schemes in surplus of £1.5 billion (2016: £1.1 billion). These exclusions have no impact on Solvency II surplus.
 The estimated Solvency II position includes the pro forma impacts of the disposals of Friends Provident International Limited (£0.1 billion increase to surplus) and the Italian Avipop Assicurazioni S.p.A (£0.1 billion increase to surplus).

surplus)

2. The 31 December 2016 Solvency II position included pro forma adjustments for the impact of the announced disposal of Antarius and the future impact of changes to UK tax rules announced by the Chancellor of the Exchequer's Autumn statement, which was removed following clarification in the 13 July 2017 Finance Bill. The 31 December 2016 Solvency II position also includes an adverse impact of a notional reset of the transitional provisions (TMTP) to reflect interest rates at 31 December 2016 £0.4 billion decrease to surplus.

| Overview | Income & expenses | IFRS | Capital & liquidity | Analysis of assets | VNB & Sales analysis | Other information |
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|

Operating profit

2017 overview

The Group has increased operating profit, grown cash remittances and strengthened its Solvency II capital position. Operating earnings per share rose 3.7p to 54.8p (2016: 51.1p).

This year has seen a significant amount of disposal activity as we complete our Not Everywhere strategy. In France we completed on the sale of Antarius to Sogecap, a subsidiary of Societe Generale in April 2017. In Spain we completed the sales of Unicorp Vida, Caja España Vida and Aviva Vida y Pensiones to Santalucía in September. In Italy, Banco Popolare served notice to terminate our distribution agreement and as a result on 25 August 2017 we announced that Aviva Italia Holdings has exercised an option to sell its JV Avipop Assicurazioni and its wholly owned subsidiary Aviva Vita to Banco BPM. In July, we announced the sale of Friends Provident International Limited (FPI) to RL360 Holding Company Limited followed by the announcement in October of the sale of our 49% shareholding in First Aviva Life (Aviva Taiwan) to our JV partner, First Financial Holding Co. Ltd. (FFH).

In terms of acquisitions, in April 2017 we acquired VietinBank's entire 50% shareholding in our life insurance joint venture VietinBank Aviva Life Insurance Limited (Aviva Vietnam) which is now a wholly owned subsidiary. On 14 November 2017, we announced that we had reached an agreement to acquire the Irish insurer Friends First Life Assurance Company dac (Friends First).

1 – Operating profit

Group operating profit

For the year ended 31 December 2017

| | 2017 £m | 2016 £m |
|--|------------|------------|
| Operating profit before tax attributable to shareholders' profits | | |
| Life business | | |
| United Kingdom ¹ | 1,758 | 1,523 |
| Europe ¹ | 873 | 876 |
| Asia | 235 | 241 |
| Other | 16 | 2 |
| Total life business (note 7.i) | 2,882 | 2,642 |
| General insurance and health | | |
| United Kingdom | 443 | 423 |
| Canada | 46 | 269 |
| Europe ¹ | 223 | 168 |
| Asia | (8) | (13 |
| Other | (4) | (14 |
| Total general insurance and health ² (note 7.ii) | 700 | 833 |
| Fund management | | |
| Aviva Investors | 168 | 139 |
| Asia | (4) | (1 |
| Total fund management | 164 | 138 |
| Other | | |
| Other operations (note A1) | (169) | (94 |
| Market operating profit ² | 3,577 | 3,519 |
| Corporate centre (note A2) | (184) | (184 |
| Group debt costs and other interest (note A3) | (325) | (325 |
| Operating profit before tax attributable to shareholders' profits ² | 3,068 | 3,010 |
| Tax attributable to shareholders' profit | (639) | (706 |
| Non-controlling interests | (134) | (147 |
| Preference dividends and other ³ | (82) | (85 |
| Operating profit attributable to ordinary shareholders ² | 2,213 | 2,072 |
| | | |
| | | |

Operating earnings per share^{2,4}

Following the launch of UK Insurance which brings together UK Life, UK General Insurance and UK Health into a combined business, the Ireland Life and General Insurance businesses have been aligned to the new

management structure and reported within Europe. As a result, comparative balances have been restated. 2016 excludes the impact of the change in the Ogden discount rate of £475 million, which has been recognised as an exceptional adjusting item. 2016 also excludes the impact from an outward quota share reinsurance agreement written in 2015 and completed in 2016 in Avian Instrument (DCI) and tier 1 notes (net of tax). 2

Net of tax, non-controlling interests, preference dividences coupon payments in respect of the direct capital instrument (DCI) and tier 1 notes (net of tax). The calculation of earnings per share uses a weighted average of 4,047 million (2016: 4,051 million) ordinary shares in issue, after deducting treasury shares.

51.1p

54.8p

IFRS

Operating profit continued

1 – Operating profit continued

Operating profit was £3,068 million (2016: £3,010 million) representing an increase of 2%.

The life business operating profit increased to £2,882 million (2016: £2,642 million) mainly driven by the UK where we benefitted from growth in long-term savings, further optimisation of the annuity asset mix and an net increase of £290 million (2016: £151 million) primarily from our annual assumption review including longevity and modelling. In Europe, operating profit is flat reflecting underlying growth offset by the sale of Antarius and our Spanish operations during the year. Asia's contribution is broadly flat as it continues to invest for the future.

The general insurance and health business operating result decreased to £700 million (2016: £833 million). Overall the level of prior year reserve releases remain positive in 2017, however in Canada we have experienced increased claims severity and as a result we are strengthening reserves this year for this business. The UK and Europe results improved year on year and reported higher underwriting profits.

Fund management operating profit improved to £164 million (2016: £138 million) driven by revenue growth of 14% reflecting the full year benefit of the transfer of Friends Life assets and continued growth in the AIMS range of funds.

Other operations relate to non-insurance activities of the Group which incurred a loss of £169 million (2016: £94 million). This includes the savings platform business in the UK and reflects an increased investment in the development of the digital business, partly offset by income relating to insurance recoveries of £32 million (2016: £19 million).

| Overview | Income & expenses | IFRS | Capital & liquidity | Analysis of assets | VNB & Sales analysis | Other information |
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|
| | | | | | | |

Cash

2.i – Cash remitted to Group

The flow of sustainable cash remittances from the Group's businesses is a key financial priority. We use a wholly-owned, UK domiciled reinsurer subsidiary for internal capital and cash management purposes. Some of the remittances otherwise attributable to the operating businesses arise from this internal reinsurance vehicle. The table below reflects actual remittances received by the Group.

Cash remittances for 2017 were £2,398 million (2016: £1,805 million) and include cash paid by our operating businesses to the Group, comprising dividends and interest on internal loans.

| United Kingdom ^{1,2} Canada Europe ² Asia, Aviva Investors & Other | 2017 £m | 2016 £m |
|---|------------|------------|
| Europe ² | 1,800 | 1,187 |
| | 55 | 130 |
| Asia, Aviva Investors & Other | 485 | 449 |
| | 58 | 39 |
| Total ³ | 2,398 | 1,805 |

paid in February 2017 and £159 million received from France paid in January 2017, in respect of 2016 activity. Cash remitted to Group is managed at legal entity level. As Ireland constitutes a branch of the United Kingdom business, cash remittances from Ireland were not aligned to the new management structure within Europe, but they were reported within United Kingdom. 2

3 Cash remittances are eliminated on consolidation and are hence not directly reconcilable to the Group's IFRS statement of cash flows

The increase in cash remittances to the Group was primarily driven by the UK businesses which includes an additional £500 million of Friends Life integration remittance, taking instalments to date to £750 million of the target of £1 billion. General insurance cash remitted in the UK increased to £434 million (2016: £91 million) as dividend payments in 2016 were lower due to funding the internal reinsurance arrangement.

Cash remittances from Canada decreased due to a lower operating profit. In Europe, an increase in cash remittances from France was partly offset by a reduction in cash remittances from Spain following the completion of the sale of the 50% shareholding in our life insurance and pension joint ventures. Cash remittances from Aviva Investors increased by 49% due to growth in the profitability of the **business**

2.ii – Excess centre cash flow

Excess centre cash flow represents cash remitted by business units to the Group Centre less central operating expenses and debt financing costs. It represents cash and liquid assets held in the group holding companies, including Aviva plc. It is an important measure of the cash that is available to pay dividends, reduce debt, pay exceptional charges or invest back into our business units. It does not include cash movements such as disposal proceeds or capital injections.

| | 2017 £m | 2016 £m |
|---|------------|------------|
| Dividends received | 2,213 | 1,635 |
| Internal interest received | 185 | 170 |
| Cash remitted to Group | 2,398 | 1,805 |
| External interest paid | (549) | (540) |
| Internal interest paid | (66) | (85) |
| Central spend | (183) | (227) |
| Other operating cash flows ¹ | 56 | (24) |
| Excess centre cash flow ^{2,3} | 1,656 | 929 |

Other operating cash flows include central investment income and group tax relief payments and other financial cash flows previously reported under central spend.

This table represents cash movements only and therefore will not reconcile to accounting based disclosures throughout the Preliminary announcement. This is an Alternative Performance Measure (APM) which provides useful information to enhance the understanding of financial performance. See the glossary for further details. з

The increase of £727 million in excess centre cash flow is primarily driven by higher cash remittances to the Group Centre as discussed above, coupled with lower central spend and increased other operating cash inflows. Central spend cashflow partly decreased as employees paid more into Aviva's share save scheme as it came in line with new limits set by HMRC. Increased other operating cash inflows of £56 million (2016: £24 million cash outflows) were mainly driven by tax relief receipts from UK businesses and investment income offset by hedging costs and adverse margin movements.

Group Centre liquidity consists of cash and liquid assets. Group Centre liquidity at 28 February 2018 was £2.0 billion (28 February 2017: £1.8 billion).

IFRS

Cash continued

2.iii – Operating capital generation: Solvency II basis

The active management of the generation and utilisation of capital is a primary Group focus, balancing new business investment and shareholder distribution to deliver on our 'cash flow plus growth' initiative.

Our principal source of Group centre liquidity is cash remittances in the form of dividends and debt interest receipts from our businesses. Solvency II operating capital generation (OCG) measures the amount of Solvency II capital the Group generates from operating activities. Capital generated enhances Solvency II surplus which can be used to fund business unit remittances and, in turn, the Group dividend as well as for investment in initiatives that provide potential future growth.

Solvency II OCG was £2.6 billion during 2017 (2016: £3.5 billion), incorporating £2.4 billion (2016: £3.6 billion) from our life business and £0.2 billion (2016: £(0.1) billion) from our general insurance, health, fund management and other businesses.

| | | tal Generation | Non-Life SII Operating Capital Generation | | | |
|--|--|---------------------------------------|--|--|---|---|
| 2017 £bn | Impact of New Business ¹ | Earnings from Existing Business | Other ² | Life SII operating Capital Generation | GI, Health, FM & Other SII Operating Capital Generation | Total SII Operating Capital Generation |
| United Kingdom & Ireland Life ³ | (0.1) | 0.9 | 1.6 | 2.4 | _ | 2.4 |
| United Kingdom & Ireland General Insurance and Health ³ | | | | | 0.4 | 0.4 |
| Canada | | | | | (0.1) | (0.1) |
| Europe ³ | _ | 0.6 | 0.1 | 0.7 | 0.2 | 0.9 |
| Asia & Aviva Investors | _ | 0.1 | _ | 0.1 | _ | 0.1 |
| Group centre costs & Other ² | _ | _ | (0.8) | (0.8) | (0.3) | (1.1) |
| Total Group Solvency II operating capital generation ⁴ | (0.1) | 1.6 | 0.9 | 2.4 | 0.2 | 2.6 |

Impact of new business (Life) as set out in note 4 Solvency II Surplus impact of new business

Other includes the effect of non-recurring capital actions, non-economic assumption changes and Group diversification benefit. Solvency II operating capital generation is managed at legal entity level. As Ireland constitutes a branch of the United Kingdom business, Solvency II operating capital generation from Ireland was not aligned to the new management structure within Europe, but it was reported within United Kingdom.

As reported in the movement in Group Solvency II surplus disclosure in note 8iv.

| | | Life business | s SII Operating Cap | ital Generation | Non-Life SII Operating Capital Generation | |
|---|--|---------------------------------------|---------------------|--|---|---|
| 2016 £bn | Impact of New Business ¹ | Earnings from Existing Business | Other ² | Life SII operating Capital Generation | Gl, Health, FM & Other SII Operating Capital Generation | Total SII Operating Capital Generation |
| United Kingdom & Ireland Life ³ | (0.1) | 1.4 | 1.2 | 2.5 | _ | 2.5 |
| United Kingdom & Ireland General Insurance and Health ³ | | | | | 0.3 | 0.3 |
| Canada | | | | | 0.3 | 0.3 |
| Europe ³ | (0.1) | 0.6 | 0.4 | 0.9 | 0.1 | 1.0 |
| Asia & Aviva Investors | _ | _ | _ | _ | _ | _ |
| Group centre costs & Other ² | — | — | 0.2 | 0.2 | (0.8) | (0.6) |
| Total Group Solvency II operating capital generation ^{4,5} | (0.2) | 2.0 | 1.8 | 3.6 | (0.1) | 3.5 |

Impact of new business (Life) as set out in note 4 Solvency II Surplus impact of new business Other includes the effect of non-recurring capital actions, non-economic assumption changes and Group diversification benefit.

Solvercy II operating capital generation is managed at leadents, non-continue data imported angles and or output relation of the United Kingdom business, Solvency II operating capital generation from Ireland was not aligned to the new management structure within Europe, but it was reported within United Kingdom. As reported in the movement in Group Solvency II surplus disclosure in note 8iv. 3

Solvency II operating capital generation excludes the impact of the change in the Ogden discount rate of c.£0.2 billion, which has been recognised as an exceptional adjusting item

Solvency II OCG is the Solvency II surplus movement in the period due to operating items including the impact of new business, expected investment returns on existing business, operating variances, non-economic assumption changes and non-recurring capital actions. It excludes economic variances, economic assumption changes and integration and restructuring costs which are included in non-operating capital generation. The expected investment returns are consistent with the returns used under IFRS (as set out in notes A4 and A5 in the financial supplement), except in UK Life where a risk-free curve plus an allowance for expected real-world returns (less an adjustment for credit risk, where required) is applied. Total Group OCG is a component of the movement in Group Solvency II surplus over the period as set out in note 8.iv and is not reconcilable to IFRS.

For the life business, the impact of new business is the change in Solvency II surplus resulting from new business written in the period. Life business earnings from existing business is the Solvency II surplus movement in the period due to operating items excluding the impacts of New Business and Other OCG. Other OCG for life business includes the effect of non-recurring capital actions, non-economic assumption changes and Group diversification benefit.

The life business OCG reduced by £1.2 billion in 2017 from £3.6 billion to £2.4 billion. Earnings from existing business reduced by £0.4 billion from £2.0 billion to £1.6 billion. This was mainly due to the UK & Ireland, which in 2016 benefitted from changes relating to the Friends Life portfolio, including hedging activity.

Other OCG for life business decreased by £0.9 billion in 2017 from £1.8 billion to £0.9 billion. In 2017, UK & Ireland includes the benefit of non-economic assumption changes, including longevity, and the Friends Life Part VII transfer. In 2017, Europe includes the benefit arising from a model change in France to vary the volatility adjustment in the solo SCR calculation, which is partially offset by non-economic assumption changes. However, this model change in France has not been recognised at Group resulting in an offsetting adjustment in Group centre costs and Other.

The general insurance, health, fund management and other business OCG increased by £0.3 billion in the period reflecting higher surplus generation in UK&I GI and Europe, together with a greater benefit from Group diversification. This was partially offset by lower surplus generation in Canada primarily as a result of the lower underwriting result.

| Overview Income & expenses IFRS Capital & liquidity Analysis of assets VNB & Sales analysis Other i | nformation |
|--|------------|
|--|------------|

Cash continued

2.iv - Solvency II future surplus emergence

| Emergence of future profits and release of Solvency II capital requirements – life business | 2017 £bn | 2016 £bn |
|---|-------------|-------------|
| Year 1 | 1.5 | 1.4 |
| Year 2 | 1.4 | 1.3 |
| Year 3 | 1.2 | 1.2 |
| Year 4 | 1.1 | 1.1 |
| Year 5 | 1.0 | 1.0 |
| Year 6 | 1.0 | 0.9 |
| Year 7 | 0.9 | 0.8 |
| Year 8 | 0.8 | 0.8 |
| Year 9 | 0.8 | 0.7 |
| Year 10 | 0.7 | 0.7 |
| Year 11-15 | 3.4 | 2.7 |
| Year 16-20 | 3.6 | 3.3 |
| Year 20+ | 9.6 | 8.8 |
| Total net of non-controlling interests | 27.0 | 24.7 |

The table above shows the expected future emergence of Solvency II surplus from the existing long-term in-force life business. For business subject to short contract boundaries under Solvency II, allowance has been made for the impact of renewal premiums as and when they are expected to occur. The cash flows have been split for the first ten years followed by five year tranches depending on the date when the surplus is expected to emerge.

The projected surplus, which is primarily expected to arise from the release of risk margin (net of transitional measures) and solvency capital requirement as the business runs off over time, is expected to emerge through OCG in future years. The cash flows are real-world cash flows, i.e. they are based on best estimate non-economic assumptions used in the Solvency II valuation and real-world investment returns rather than risk-free. The expected investment returns are consistent with the returns used in IFRS (as set out in note A4 in the financial supplement), except in the UK where a risk-free curve plus an allowance for expected real-world returns (less an adjustment for credit risk where required) is applied.

Solvency II future surplus emergence is a projection of the movement in Group Solvency II surplus from existing long-term in-force life business as set out in note 8.iv and is not reconcilable to IFRS. The projection is a static analysis as at a point in time and hence it does not include the potential impact of active management of the business (for example, active management of market, demographic and expense risk through investment, hedging, risk transfer and operational risk and expense management), which may affect the actual amount of OCG earned from existing business in future periods.

The total cash flows have increased by £2.3 billion over 2017, largely reflecting an increase in real-world returns in the UK following a change to the assets allocated to the calculation, model changes resulting in an increased solvency capital requirement in France and favourable foreign exchange rate movements in Europe.

| Overview | Income & expenses | IFRS | Capital & liquidity | Analysis of assets | VNB & Sales analysis | Other information |
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|

Expenses

3 – Expenses

| | 2017 £m | 2016 £m |
|--|------------|------------|
| United Kingdom ¹ | 1,493 | 1,408 |
| Canada | 478 | 396 |
| Europe ¹ | 820 | 765 |
| Asia | 207 | 177 |
| Aviva Investors | 409 | 367 |
| Other Group activities | 371 | 295 |
| Operating cost base | 3,778 | 3,408 |
| Integration & restructuring costs ² | 141 | 212 |
| Expense base | 3,919 | 3,620 |
| Operating expense ratio ³ | 52.7% | 50.5% |

1 Following the launch of UK Insurance which brings together UK Life, UK General Insurance and UK Health into a combined business, the Ireland Life and General Insurance businesses have been aligned to the new

management structure and reported within Europe. As a result, comparative balances have been restated.
As reported within other expenses of £3,537 million (2016: £3,853 million) in the consolidated income statement.
Group operating expenses expressed as a percentage of operating profit before operating expenses and group debt costs.

The table below shows the lines of the IFRS consolidated income statement in which operating expenses have been included:

| | 2017 £m | 2016 £m |
|---|------------|------------|
| Claims handling costs ¹ | 330 | 290 |
| Non-commission acquisition costs ² | 892 | 846 |
| Other expenses ³ | 2,556 | 2,272 |
| Operating cost base | 3,778 | 3,408 |

Operating expenses as reported within net claims and benefits paid of £24,113 million (2016: £23,782 million) in the consolidated income statement.
 Operating expenses as reported within fee and commission expense of £4,329 million (2016: £3,885 million) in the consolidated income statement.
 Operating expenses as reported within other expenses of £3,537 million (2016: £3,853 million) in the consolidated income statement.

Operating expenses were £3,778 million (2016: £3,408 million). The increase in operating expenses included £98 million of adverse foreign exchange movements, a full year of RBC operating costs, and the effect of targeted investment into IT, digital and growth initiatives including strengthening our Aviva Investors and UK capabilities. This was partially offset by savings arising from the disposals referred to in note B4.

Integration and restructuring costs have decreased by 34% in constant currency terms, to £141 million (2016: £212 million) as a result of lower integration spend on the Friends Life acquisition and completion of the Solvency II project in 2016. This was partially offset by integration spend relating to the RBC acquisition and restructuring costs in the UK and Europe.

The operating expense ratio of 52.7% is up by 2.2pp, impacted by the reduction in Canada operating profit and our investment in the growth of our businesses.

IFRS

Value of new business

Overview

4 - Value of new business (VNB) on an adjusted Solvency II basis

Following the introduction of Solvency II, the new prudential regulatory framework that came into force on 1 January 2016, the Group has calculated VNB on an adjusted Solvency II basis.

Adjusted Solvency II VNB reflects Solvency II assumptions and allowance for risk and is defined as the increase in Solvency II Own Funds resulting from business written in the period, adjusted to:

- Include business which is not included in the Solvency II Best Estimate Liability (BEL) valuation (e.g. UK and Asia Healthcare business, Retail fund management business and the UK Equity release business);
- Remove the impact of contract boundaries; and

Income & expenses

• Include look through profits in service companies (where not included in Solvency II).

A reconciliation between adjusted Solvency II VNB and the Solvency II Own Funds impact of new business is provided below. The trend analysis of adjusted Solvency II VNB and adjusted Solvency II present value of new business premiums (PVNBP) is included in the financial supplement, section E: VNB & sales analysis.

| 2017 | UK¹ £m | Europe ¹ £m | Asia & Other £m | Group £m |
|---|-----------|---------------------------|--------------------|-------------|
| Adjusted Solvency II VNB (gross of tax and non-controlling interests) ² | 527 | 533 | 183 | 1,243 |
| Allowance for Solvency II contract boundary rules | 54 | (64) | 4 | (6) |
| Differences due to change in business in scope | (167) | (45) | (34) | (246) |
| Tax & Other ³ | (105) | (184) | (25) | (314) |
| Solvency II Own Funds impact of new business (net of tax and non-controlling interests) | 309 | 240 | 128 | 677 |
| | UK | Europe ¹ | Asia & Other | Group |
| 2016 | £m | £m | £m | £m |
| Adjusted Solvency II VNB (gross of tax and non-controlling interests) ^{2,4} | 429 | 429 | 134 | 992 |
| Allowance for Solvency II contract boundary rules | 51 | (55) | (9) | (13) |
| Differences due to change in business in scope | (131) | (41) | (51) | (223) |
| Tax & Other ³ | (74) | (150) | (13) | (237) |
| Solvency II Own Funds impact of new business (net of tax and non-controlling interests) | 275 | 183 | 61 | 519 |

1 Following the launch of UK Insurance which brings together UK Life, UK General Insurance and UK Health into a combined business, the Ireland Life and General Insurance businesses have been aligned to the new

The principal method of the protect within Europe. As a result, comparative balances have been restated. The principal methodologies and assumptions underlying the calculation of adjusted Solvency II VNB are set out in section E1 and E14 respectively. Other includes the impact of look through profits in service companies (where not included in Solvency II) and the reduction in value when moving to

in value when moving to a net of non-controlling interests basis

UK Life VNB includes £(12) million relating to the internal transfer of annuities from a with-profits fund to a non-profit fund during the second half of 2016.

The Group's VNB increased by 25% to £1,243 million (2016: £992 million). This was driven by growth of new business in the UK, Europe and Asia.

The UK benefitted from strong growth in volumes across all segments partially offset but a change in product and asset mix. Following a clarification to the Solvency II rules made by the Prudential Regulation Authority (PRA) in 2017, new business written since the introduction of Solvency II has been reflected in the calculation of UK Life's transitional measures. This increased the adjusted Solvency II VNB (and Solvency II Own Funds impact of new business and Solvency II Surplus from life new business within OCG) by £96 million gross of tax and non-controlling interests as at 2017.

The increase in Europe was mainly driven by a change in business mix towards more profitable unit-linked and protection business in France and Italy and favourable foreign exchange movements, partly offset by lower volumes of with-profits business in France and the sale of Antarius. Asia benefitted from higher volumes of business in Singapore and China driven by sales growth in agency and broker channels and favourable foreign exchange movements.

The life new business written during the year has increased the Solvency II Capital Requirement by £0.8 billion (2016: £0.7 billion), split £0.4 billion (2016: £0.4 billion) for United Kingdom, £0.3 billion (2016: £0.3 billion) for Europe and £0.1 billion (2016: £nil) for Asia & Other business. This has resulted in a reduction in Solvency II Surplus from life new business of £0.1 billion (2016: £0.2 billion), split £0.1 billion (2016: £0.1 billion) for United Kingdom, £nil (2016: £0.1 billion) for Europe and £nil (2016: £nil) for Asia & Other business.

Solvency II Surplus impact of new business is set out in section 2.iii Life business Solvency II Operating Capital Generation impact of new business.

Combined operating ratio

5 – General insurance combined operating ratio (COR)¹

| | Net earned premiums Claims ratio ³ | | Commission and Net earned premiums Claims ratio ³ expense ratio ⁴ | | | | Combined operating ratio⁵ | |
|-------------------------------|---|------------|--|-----------|-----------|-----------|------------------------------|-----------|
| | 2017 £m | 2016 £m | 2017 % | 2016 % | 2017 % | 2016 % | 2017 % | 2016 % |
| United Kingdom ^{2,6} | 4,015 | 3,821 | 61.0 | 73.8 | 32.9 | 32.5 | 93.9 | 106.3 |
| Canada | 2,944 | 2,420 | 72.2 | 63.5 | 30.0 | 29.5 | 102.2 | 93.0 |
| Europe ⁶ | 2,001 | 1,747 | 63.1 | 66.0 | 30.2 | 29.1 | 93.3 | 95.1 |
| Asia ⁷ | 16 | 12 | 85.9 | 72.0 | 37.3 | 37.9 | 123.2 | 109.9 |
| Total ² | 8,976 | 8,000 | 65.3 | 69.2 | 31.3 | 30.9 | 96.6 | 100.1 |

COR is now reported on an earned basis. Comparatives have been realigned to reflect this change

2 2016 excludes the impact from an outward quota share reinsurance agreement written in 2015 and completed in 2016 in Aviva Insurance Limited (AIL). 2016 includes the impact of the change in the Ogden discount rate which had an impact of 5.9pp

Claims ratio: incurred claims expressed as a percentage of net earned premiums

Commission and expense ratio: earned commissions and expenses expressed as a percentage of net earned premiums.

Combined operating ratio: aggregate of claims ratio and commission and expense ratio. Following the launch of UK Insurance which brings together UK Life, UK General Insurance and UK Health into a combined business, the Ireland Life and General Insurance businesses have been aligned to the new 6

ent structure and reported within Europe. As a result, comparative balances have been restated 7 Includes Aviva Re net earned premiums.

Group COR for the period was 96.6% (2016: 100.1%). Excluding the one-off impact of the Ogden discount rate change (5.9pp) in 2016, COR has deteriorated by 2.4pp.

The claims ratio (excluding the impact of the Ogden discount rate change) increased by 2.0pp, mainly driven by Canada, where the significantly favourable prior year reserve releases seen in previous years, arising from better than anticipated results following the 2010 Ontario reforms, were not repeated. 2017 was also impacted by an increase in claims severity and frequency on all lines in Canada.

The commission and expense ratio has increased by 0.4pp due to changes in business mix following new partnerships in the UK and the consolidation of the Polish joint venture in Europe.

We continue to apply our reserving policy consistently and to focus on understanding the cost of claims to ensure that reserves are maintained at an appropriate level. Prior year reserve movements will vary year to year but our business is predominantly short tail in nature and the loss development experience is generally stable. In 2017, prior year reserve releases in our general insurance business of £27 million (2016: £241 million) had a favourable impact of 0.3pp (2016: 2.9pp) on our Group result. The impact of Ogden on our 2017 results is not material.

Normalised accident year combined operating ratio (COR)

The normalised accident year claims ratio and normalised accident year combined operating ratio represent the claims ratio and combined operating ratio adjusted to exclude the impact of the change in the Ogden discount rate, prior year claims development⁴ and weather variations versus expectations⁵, gross of the impact of profit sharing arrangements.

Group normalised accident year COR improved by 0.2pp driven by a decrease in the claims ratio in the UK and Europe as a result of our focus on disciplined pricing and underwriting, as well as claims and indemnity management, offset by higher claims frequency and severity on all lines in Canada.

| | | UK ^{1,2} | | Canada | | Europe ² | | Total |
|--|----------------|-------------------|------------|--------------|--------------|---------------------|----------------|----------------|
| | 2017 % | 2016 % | 2017 % | 2016 % | 2017 % | 2016 % | 2017 % | 2016 % |
| Normalised accident year claims ratio ³ Impact of change in Ogden discount rate | 64.0 | 65.7 12.4 | 70.7 | 68.2 | 63.9 | 68.6 | 66.5 | 67.1 5.9 |
| Prior year reserve release ⁴ Weather over/(under) long-term average ⁵ | (1.0) (2.0) | (2.2) (2.1) | 1.3 0.2 | (5.4) 0.7 | (0.9) 0.1 | (2.3) (0.3) | (0.3) (0.9) | (2.9) (0.9) |
| Claims ratio | 61.0 | 73.8 | 72.2 | 63.5 | 63.1 | 66.0 | 65.3 | 69.2 |
| Commission and expense ratio ⁶ | 32.9 | 32.5 | 30.0 | 29.5 | 30.2 | 29.1 | 31.3 | 30.9 |
| Normalised accident year combined operating ratio ³ | 96.9 | 98.2 | 100.7 | 97.7 | 94.1 | 97.7 | 97.8 | 98.0 |
| Combined operating ratio | 93.9 | 106.3 | 102.2 | 93.0 | 93.3 | 95.1 | 96.6 | 100.1 |

2016 excludes the impact from an outward quota share reinsurance agreement written in 2015 and completed in 2016 in Aviva Insurance Limited (AIL). Following the launch of UK Insurance which brings together UK Life, UK General Insurance and UK Health into a combined business, the Ireland Life and General Insurance businesses have been aligned to the new

management structure and reported within Europe. As a result, comparative balances have been restated.

This is an Alternative Performance Measure (APM) which provides useful information to enhance the understanding of financial performance. See the glossary for further details. Prior year reserve release represents the changes in the ultimate cost of the claims incurred in prior years, gross of the impact of profit sharing arrangements.

Weather over/(under) long-term average represents the difference between the reported net incurred cost of general insurance claims that have occurred as a result of weather events and the equivalent long-term average 5 expected net costs, gross of the impact of profit sharing arrangements. Commission and expense ratio includes the impact of profit sharing arrangements.

6

The definition of COR has been changed to an earned basis. It was previously calculated on a hybrid basis: the claims ratio was on an earned basis with the incurred claims expressed as a percentage of net earned premiums; while the commission and expense ratio was on a written basis with written commissions and written expenses expressed as a percentage of net written premiums. This did not consider the impact of deferred commissions and expenses, which are included in the underwriting result. The new method is calculated as claims incurred, earned commission and earned expenses as a percentage of net earned premiums which aligns better to our underwriting result. Comparatives have been realigned for 2016 on an earned basis.

| Overview Income & expense | s IFRS | Capital & liquidity | Analysis of assets | VNB & Sales analysis | Other information |
|---------------------------|--------|---------------------|--------------------|----------------------|-------------------|
|---------------------------|--------|---------------------|--------------------|----------------------|-------------------|

Business unit performance

6.i – United Kingdom

| | 2017 | 2016 | Sterling |
|---|-------|--------|----------|
| 0 | £m | £m | % change |
| Operating profit ^{1,2} | | | |
| Life | 1,758 | 1,523 | 15% |
| General Insurance ³ | 408 | 392 | 4% |
| Health ⁴ | 35 | 31 | 13% |
| | 2,201 | 1,946 | 13% |
| Cash remitted to Group ^{3,4} | | | |
| Life | 1,366 | 1,096 | 25% |
| General Insurance and Health | 434 | 91 | 377% |
| | 1,800 | 1,187 | 52% |
| Expenses | | | |
| Operating expenses | 1,493 | 1,408 | 6% |
| Integration and restructuring costs | 76 | 134 | (43)% |
| | 1,569 | 1,542 | 2% |
| Value of new business: Adjusted SII basis | 527 | 429 | 23% |
| Combined operating ratio | 93.9% | 106.3% | (12.4)pp |
| Combined operating ratio excluding impact of change in Ogden discount rate ^{1,3} | | 93.9% | |
| General insurance net written premiums ² | 4,078 | 3,930 | 4% |

2016 excludes the impact of the change in the Ogden discount rate of £475 million, which was recognised as an exceptional adjusting item. 2016 excludes the impact from an outward quota share reinsurance agreement written in 2015 and completed in 2016 in Aviva Insurance Limited (AIL). 2017 includes £335 million of cash received from the Group's internal reinsurance vehicle. 2017 general insurance cash remittances include amounts of £337 million received from UK General Insurance in February 2018 in 3

respect of 2017 activity. Cash remitted to Group is managed at legal entity level. As Ireland constitutes a branch of the United Kingdom business, cash remittances from Ireland were not aligned to the new management structure within Europe, but they were reported within United Kingdom

Overview

UK Insurance (UKI) was created in 2017 by bringing our UK life, health and general insurance businesses together under a common leadership team to unlock the potential of our unique position as a large scale composite. The business delivered an increase of 13% in operating profit to £2,201 million (2016: £1,946 million), demonstrating the value of our market leading franchise.

The Friends Life Part VII transfer was completed on 1 October 2017, delivering further capital benefits. Cash remittances of £1,800 million included special cash remittances of £500 million which arose from the Friends Life integration, taking the total paid to date to £750 million. We expect further payments in 2018 towards the £1 billion target.

Operating and financial performance Operating profit

| | | | 2017 £m | | | 2016 £m | |
|--------------------------------|---------------------------|----------------------|-------------|---------------------------|----------------------|-------------|----------------------|
| Operating Profit | New Business ¹ | Existing Business | Total £m | New Business ¹ | Existing Business | Total £m | Sterling % change |
| Long-term savings ² | (74) | 259 | 185 | (77) | 219 | 142 | 30% |
| Annuities & equity release | 335 | 390 | 725 | 305 | 351 | 656 | 11% |
| Protection | 130 | 97 | 227 | 118 | 124 | 242 | (6)% |
| Legacy ³ | — | 331 | 331 | _ | 332 | 332 | _ |
| Other ⁴ | - | 290 | 290 | _ | 151 | 151 | 92% |
| Life | 391 | 1,367 | 1,758 | 346 | 1,177 | 1,523 | 15% |
| Underwriting result | | | 246 | | | 232 | 6% |
| Longer-term investment return | | | 163 | | | 162 | 1% |
| Other ⁶ | | | (1) | | | (2) | 50% |
| General Insurance ⁵ | | | 408 | | | 392 | 4% |
| Health | | | 35 | | | 31 | 13% |
| Total Operating Profit | | | 2,201 | | | 1,946 | 13% |

New business represents the income earned on new business written during the period reflecting premiums less initial reserves and initial expenses (including commission) less deferred costs along with any changes to existing contracts, which were not anticipated at the outset of the contract that generate additional shareholder risk.

Includes pensions and the savings Platforms.

Legacy represents products no longer actively marketed, including With-Profits and Bonds. Other Life represents products no longer actively marketed, including With-Profits and Bonds. 2016 excludes the impact of the change in the Ogden discount rate of £475 million, which has been recognised as an exceptional adjusting item.

6 Other General Insurance includes unwind of discount and pension scheme net finance costs.

UK Life operating profit increased by 15% to £1,758 million (2016: £1,523 million) driven by a 13% improvement in new business profits, continued growth of the long-term savings franchise, further optimisation of the annuity asset mix and an increase in the benefit arising from our annual assumptions review, including longevity.

UK General insurance operating profit increased by 4% to £408 million (2016: £392 million) due to an improvement in the underwriting result, reflecting broad-based organic premium growth of 4% and a continued focus on improving our core underwriting competencies.

UK Health operating profit increased 13% to £35 million (2016: £31 million).

| Overview | Income & expenses | IFRS | Capital & liquidity | Analysis of assets | VNB & Sales analysis | Other information |
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|

6.i – United Kingdom continued

Long-term savings

Long-term savings operating profit increased 30% to £185 million (2016: £142 million). The increase compared to 2016 is driven by assets under management (AUM)¹ increasing to £118 billion (2016: £105 billion) due to positive net flows and favourable market movements, whilst maintaining a stable in-force profit margin and strict management of acquisition costs despite increases in new business sales. Net fund flows¹ increased to £5.6 billion (2016: £2.9 billion) due to mandate wins in workplace pensions together with a sharp increase in net flows into the advisor platform, where AUM increased by 56% to £20 billion.

Annuities and Equity Release

Annuities and equity release operating profit increased 11% to £725 million (2016: £656 million). PVNBP increased by 58% to £4,287 million (2016: £2,711 million) with an increase in bulk annuities to £2,045 million (2016: £620 million). The profit impact of this was partly offset by a reduction in new business margins due to a change in product mix, with a shift towards bulks along with a change in asset mix. In addition, we have continued to optimise our asset mix by increasing the proportion of illiquid assets backing the in-force portfolio resulting in a £86 million benefit for existing business (2016: £50 million).

Protection

Protection operating profit decreased 6% to £227 million (2016: £242 million) with an increase in new business due to growth in individual protection sales, offset by a fall in existing business profits due to unfavourable claims experience in group protection.

Legacy

Legacy operating profit of £331 million was flat year on year (2016: £332 million). AUM in the legacy portfolio remained stable, with positive investment markets partially offsetting net fund outflows as policies matured. We continue to expect operating profit from the legacy business to decline by approximately 10% per annum over the medium term.

Other

Other of £290 million mainly relates to assumption changes. We recognised benefits from changes in longevity assumptions, including the impact of completing our review of the allowance for anti-selection risk of £170 million, updates reflecting our recent experience of £200 million and updates to the rate of historic and future mortality improvements, including the adoption of CMI 2016, of £340 million. These were partly offset by the impact of strengthening maintenance expense reserves by £89 million from harmonising the UK expense basis following the Friends Life Part VII transfer in 2017, recognition of future project cost reserves of £125 million and a £75 million product governance provision along with various other reserve and modelling impacts totaling £131 million. Other of £151 million in 2016 mainly related to longevity assumption change benefits partially offset by capital optimisation activity and other movements.

General insurance

The underwriting result increased by 6% to £246 million (2016: £232 million), our best underwriting result since 2006, with improvement in the underlying underwriting performance and broad based organic premium growth of 4%, partly offset overall by lower prior year reserve releases, with weather costs broadly flat.

Longer-term investment return (LTIR) increased by £1 million to £163 million (2016: £162 million), with the reduction in the internal loan return (net neutral to Group), offset by improved investment levels. Excluding the internal loan impact, the UK general insurance operating profit was up by 7%.

Cash

Cash remitted to Group was £1,800 million (2016: £1,187 million) including an additional £500 million (2016: £250 million) of Friends Life integration remittance taking instalments to date to £750 million of the target of £1 billion.

Excluding the integration remittances, UK Life remittances increased by 2% to £866 million (2016: £846 million).

UK general insurance cash remitted increased to £434 million (2016: £91 million), due to cash being used to fund an increase in the internal reinsurance arrangement in 2016.

Expenses

Operating expenses increased by 6% to £1,493 million (2016: £1,408 million), as we invested in growth and simplification initiatives in the second half of 2017, and incurred the cost of increased general insurance levies. Excluding these initiatives and levie, UKI Operating expenses were broadly flat, reflecting tight control of the direct expense base as we absorb growth.

Integration and restructuring expenses reduced by 43% to £76 million (2016: £134 million) due to lower integration spend on the Friends Life acquisition.

1 This is an Alternative Performance Measure (APM) which provides useful information to enhance the understanding of financial performance. See the glossary for further details

6.i – United Kingdom continued

Value of new business: Adjusted SII Basis (VNB)

| | 2017 £m | 2016 £m | Sterling % change |
|------------------------------|------------|------------|----------------------|
| UK Life | | | |
| Long term savings | 153 | 108 | 42% |
| Annuities and equity release | 157 | 141 | 11% |
| Protection | 183 | 151 | 21% |
| Health and Other | 34 | 29 | 17% |
| Total | 527 | 429 | 23% |

VNB increased by 23% to £527 million (2016: £429 million) with growth across all segments.

Long-term savings VNB increased to £153 million (2016: £108 million), driven by continued growth from the savings platform, and new workplace pension schemes.

Annuities and equity release VNB increased to £157 million (2016: £141 million). Annuities were impacted by a change in product and asset mix, offset by a £96 million benefit to VNB following a clarification of the Solvency II rules.

Protection VNB increased to £183 million (2016: £151 million), benefitting from growth in both individual and group protection new business volumes as we see the continued benefit of our digital platform and composite model.

Health and other VNB increased by 17% to £34 million (2016: £29 million), due to increased volumes in our health business.

Net written premiums and combined operating ratio (COR)

| | | Net written premiums | | | | perating ratio ² |
|--|---------|----------------------|----------------------|--------|--------|-----------------------------|
| United Kingdom General insurance ¹ | 2017 £m | 2016 £m | Sterling % change | 2017 % | 2016 % | Change |
| Personal Motor | 1,142 | 1,076 | 6% | | | |
| Personal Non-Motor | 1,359 | 1,332 | 2% | | | |
| UK Personal Lines | 2,501 | 2,408 | 4% | 92.0% | 92.5% | (0.5)pp |
| Commercial Motor | 514 | 538 | (4)% | | | |
| Commercial Non-Motor | 1,063 | 984 | 8% | | | |
| UK Commercial Lines | 1,577 | 1,522 | 4% | 96.7% | 96.1% | 0.6pp |
| UK General Insurance excluding impact of change in Ogden discount rate | 4,078 | 3,930 | 4% | 93.9% | 93.9% | _ |
| Impact of change in Ogden discount rate | | | | | 12.4% | |
| Total | 4,078 | 3,930 | 4% | 93.9% | 106.3% | (12.4)pp |

2016 excludes the one-off impact from an outward quota share reinsurance agreement written in 2015 and completed in 2016 in Aviva Insurance Limited (AIL).
 The Combined operating ratio is now reported on an earned basis. Comparative have been realigned to reflect this change. See note 5 for details.

General insurance net written premiums

UK general insurance net written premiums increased by 4%, reflecting growth in our chosen channels and products including Digital Motor and Commercial Non-Motor. A new partnership with HSBC UK was launched in 2017, with growth expected in 2018 and 2019.

UK Personal Motor increased by 6%, particularly in Digital which grew by 17% from both volume and rate increases. Our pricing increases were broadly in line with the market in response to increased claims inflation, including the Ogden rate change, and an insurance premium tax (IPT) increase. UK Personal Non-Motor grew by 2%.

UK Commercial lines was up by 4%, reflecting continued growth in Commercial Non-Motor, partly offset by remediation in underperforming segments of Commercial Motor. This segment includes an 8% growth in Global Corporate Specialty (GCS).

General insurance combined operating ratio (COR)

UK general insurance COR of 93.9% was stable year on year (excluding the one-off 2016 impact of the change in the Ogden discount rate), reflecting further improvement in the underlying underwriting performance and premium growth, offset by lower levels of prior year reserve releases, with weather experience broadly flat. The commission and expense ratio was slightly higher as a result of the change in business mix, including the impact from new partnerships.

UK Personal Lines COR improved by 0.5 percentage points to 92.0%, as a result of growth in Digital and a combination of rate hardening and higher levels of switching which has allowed us to improve our risk mix.

UK Commercial Lines COR was 0.6 percentage points higher at 96.7%, reflecting an improvement in underlying performance offset by lower levels of prior year reserve releases.

| Overview | Income & expenses | IFRS | Capital & liquidity | Analysis of assets | VNB & Sales analysis | Other information |
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|
| | | | | | | |

6.ii – International

(a) Canada

| | 2017 £m | 2016 £m | Sterling % change | Constant currency % change |
|---------------------------------------|------------|------------|----------------------|----------------------------------|
| General Insurance operating profit | 46 | 269 | (83)% | (84)% |
| Cash remitted to Group | 55 | 130 | (58)% | (56)% |
| Expenses | | | | |
| Operating expenses | 478 | 396 | 21% | 13% |
| Integration and restructuring costs | 15 | 18 | (17)% | (22)% |
| | 493 | 414 | 19% | 11% |
| Combined operating ratio ¹ | 102.2% | 93.0% | 9.2pp | 9.2pp |
| Net written premiums | 3,028 | 2,453 | 23% | 15% |

1 The combined operating ratio is now reported on an earned basis. Comparatives have been realigned to reflect this change. See note 5 for details.

2017 overview

During 2017 we experienced a number of challenges in the Canadian market which have impacted on performance. These challenges include unfavourable changes in claims patterns affecting prior year reserve development across the industry and a second successive year of weather claims being adverse to the long-term average. However, we have grown net written premium by 15% with the results including a full twelve months of RBC General Insurance that we acquired in June 2016. The integration of RBC General Insurance progressed well, with the completion of a major new system implementation in 2017.

All percentage movements below are quoted in constant currency unless otherwise stated.

Operating and financial performance Operating profit

| | 2017 £m | 2016 £m | Sterling % change | Constant currency % change |
|-------------------------------|------------|------------|----------------------|----------------------------------|
| Underwriting result | (64) | 168 | (138)% | (135)% |
| Longer-term investment return | 115 | 105 | 10% | 3% |
| Other ¹ | (5) | (4) | (25)% | (24)% |
| Total | 46 | 269 | (83)% | (84)% |

1 Includes unwind of discount and pension scheme net finance costs

In 2017, operating profit decreased by 84%. The lower underwriting result was mainly driven by unfavourable prior year development, which deteriorated from £130 million favourable to £37 million unfavourable. Personal motor saw the biggest movement in prior year development as the reserve releases arising from better than anticipated results following the 2010 Ontario reform were not repeated. A number of new claim applications from prior accident years were also received in 2017. Within our commercial lines business, large losses were higher and we experienced a deterioration in our healthcare and commercial auto performance.

It was also an active year for weather events with weather exceeding the long-term average following numerous storms and the wildfires in British Columbia.

The longer-term investment result increased due to the contribution from the RBC General Insurance acquisition.

Cash

Cash remittances during the period decreased to £55 million (2016: £130 million) due to lower operating profit.

Expenses

Operating expenses increased to £478 million (2016: £396 million) mainly due to including a full twelve months of RBC General Insurance. Integration and restructuring costs relating to the RBC General Insurance acquisition were down 22%.

Net written premiums

| | | Net written premiums | | | Combined operating ratio ¹ | | |
|------------------|-------|----------------------|----------|----------|---------------------------------------|-------|--------|
| | | | | Constant | | | |
| | 2017 | 2016 | Sterling | currency | 2017 | 2016 | |
| | £m | £m | % change | % | % | % | Change |
| Personal Lines | 2,171 | 1,680 | 29% | 21% | 102.5% | 93.4% | 9.1pp |
| Commercial Lines | 857 | 773 | 11% | 3% | 101.2% | 92.2% | 9.0pp |
| Total | 3,028 | 2,453 | 23% | 15% | 102.2% | 93.0% | 9.2pp |

1 The combined operating ratio is now reported on an earned basis. Comparatives have been realigned to reflect this change. See note 5 for details.

Net written premiums

Net written premiums were £3,028 million (2016: £2,453 million), up by 15%, primarily due to including a full twelve months of RBC General Insurance in 2017. Excluding RBC General Insurance, net written premiums increased by 5% with strong growth in both personal and commercial lines.

Combined operating ratio

The combined operating ratio (COR) was 102.2% (2016: 93.0%). Excluding prior year development and adverse weather experience, the COR was 3.0pp higher due to increased claims frequency and severity. The commission and expense ratio was slightly higher, as a result of the shift in business mix following the RBC acquisition and an increase in insurance premium tax, partially offset by lower general and administrative expenses.

| Overview | Income & expenses | IFRS | Capital & liquidity | Analysis of assets | VNB & Sales analysis | Other information |
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|

6.ii – International continued

(b) Europe¹

| | 2017 £m | 2016 ² £m | Sterling % change | Constant currency % change |
|---|------------|-------------------------|----------------------|----------------------------------|
| Operating profit | | | | |
| Life | 873 | 876 | _ | (7)% |
| General insurance & health | 223 | 168 | 33% | 23% |
| | 1,096 | 1,044 | 5% | (2)% |
| Cash remitted to Group ² | 485 | 449 | 8% | 1% |
| Expenses | | | | |
| Operating expenses | 820 | 765 | 7% | _ |
| Integration and restructuring costs | 36 | 9 | 300% | 263% |
| | 856 | 774 | 11% | 3% |
| Value of new business: Adjusted SII basis | 533 | 429 | 24% | 17% |
| Combined operating ratio ^{3,4} | 93.3% | 95.1% | (1.8)pp | (1.8)pp |
| Net written premiums ³ | 2,018 | 1,816 | 11% | 4% |

Our European business includes life and general insurance business written in France. Poland and Italy, life business in Ireland. Spain and Turkey and health business in France.

Following the launch of UK Insurance which brings together UK Life, UK General Insurance and UK Health into a combined business, the Ireland Life and General Insurance businesses have been aligned to the new management structure and reported within Europe. As a result, comparative balances have been restated. This realignment was not implemented for cash remitted to Group, as this metric is managed at legal entity level and Ireland constitutes a branch of the United Kingdom business.

General insurance business only. The combined operating ratio is now reported on an earned basis. Comparatives have been realigned to reflect this change. See note 5 for details.

2017 overview

In line with our strategy of allocating capital where we can deliver higher returns, our European businesses announced three disposals in the period. In France, we completed the sale of Antarius in April 2017, to Sogecap, a subsidiary of Société Générale. In Spain, we completed the sale of our 50% shareholding in our life insurance and pension joint ventures Unicorp Vida and Caja España Vida, as well as our retail life insurance business Aviva Vida y Pensiones to Santalucía. In Italy, we announced the termination of our distribution agreement with Banco Popolare. In 2017, we also announced our agreement to acquire Friends First Life Assurance Company in Ireland.

Total operating profit is down by 2% in constant currency compared to 2016; however, our continuing businesses have delivered an increase in operating profit, demonstrating the strength of our focussed approach.

All percentage movements below are quoted in constant currency unless otherwise stated.

Operating and financial performance Operating profit

| | | | | Life | | | General insurance & health | | |
|---|------------|------------|----------------------|---------------------------|------------|------------|----------------------------|----------------------------------|--|
| _ | 2017 £m | 2016 £m | Sterling % change | Constant currency % | 2017 £m | 2016 £m | Sterling % change | Constant currency % change | |
| France (excluding Antarius) | 403 | 351 | 15% | 8% | 104 | 70 | 49% | 37% | |
| Poland ¹ | 156 | 132 | 18% | 8% | 21 | 8 | 163% | 146% | |
| Italy | 168 | 170 | (1)% | (8)% | 45 | 42 | 7% | (1)% | |
| Ireland | 33 | 32 | 3% | (3)% | 53 | 48 | 10% | 3% | |
| Other Europe (excluding Unicorp, Caja España and Aviva Vida) ² | 40 | 34 | 18% | 16% | — | — | — | — | |
| Total (excluding Antarius and Unicorp, Caja España and Aviva Vida) | 800 | 719 | 11% | 4% | 223 | 168 | 33% | 23% | |
| Antarius ³ | 22 | 78 | (72)% | (74)% | _ | _ | _ | _ | |
| Unicorp, Caja España and Aviva Vida⁴ | 51 | 79 | (35)% | (40)% | _ | — | — | _ | |
| Total ⁵ | 873 | 876 | _ | (7)% | 223 | 168 | 33% | 23% | |

Poland operating profit benefits from an additional £15 million due to consolidating our joint ventures with the Bank Zachodni WBK SA for the first time in 2017.

Includes Spain and Turkey In April 2017, Aviva sold its 50% shareholding in Antarius. The Antarius figures shown represent a full year for 2016 and up to completion of the disposal in 2017.

4 In September 2017, Aviva sold its 50% shareholdings in life insurance and pension joint ventures Unicorp Vida and Caja España Vida, as well as its retail life insurance business Aviva Vida y Pensiones. The related figures shown represent a full year for 2016 and up to completion of the disposal in 2017.

Following the launch of UK Insurance which brings together UK Life, UK General Insurance and UK Health into a combined business, the Ireland Life and General Insurance businesses have been aligned to the new management structure and reported within Europe. As a result, comparative balances have been restated. 5

Life operating profit was down by 7% to £873 million (2016: £876 million) which reflects the impact of disposals during the year. Excluding disposals life operating profit was up by 4%. In France, operating profit excluding Antarius was £403 million (2016: £351 million), an increase of 8% due to growth in protection and unit-linked products, and higher unit-linked fee income mainly due to favourable equity market movements. In Poland, operating profit of £156 million (2016: £132 million) increased by 8% as a result of favourable equity market movements on pension assets, an increase in fee income and the benefit of consolidating the joint venture with Bank Zachodni WBK SA for the first time in 2017. In Italy, operating profit of £168 million (2016: £170 million) was down 8%, due to the strain of writing high new business volumes of capital-light unit-linked hybrid products. Life operating profit in Ireland of £33 million (2016: £32 million) was down 3%, supported by favourable assumption changes in line with prior year but offset by a slight decrease in profitability due to a change in business mix

| Overview | Income & expenses | IFRS | Capital & liquidity | Analysis of assets | VNB & Sales analysis | Other information |
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|
| | | | | | | |

6.ii – International continued

General insurance operating profit increased by 23% to £223 million (2016: £168 million). This was mainly driven by France operating profit increasing to £104 million (2016: £70 million), with lower large loss experience and growth in the direct business. In Poland, operating profit increased to £21 million (2016: £8 million) mainly due to increased rate and lower claims frequency on the motor book and the impact of consolidating the joint venture. Operating profit in Ireland of £53 million (2016: £48 million) was up by 3%. Excluding the disposal of Ireland Health, which was disposed in 2016, Ireland operating profit was up by 23%, driven primarily by growth in our direct business, robust fraud management and strong rate increases.

Cash

Cash remitted to the Group was £485 million (2016: £449 million) a 1% increase due mainly to an increased dividend in France, partly offset by a reduction in cash remitted in Spain, following the disposals.

Expenses

Operating expenses of £820 million (2016: £765 million) were flat. This includes a decrease due to the disposal of Ireland Health in 2016, offset by the consolidation of the Polish joint ventures and investment in growth in our continuing businesses.

Integration and restructuring costs of £36 million (2016: £9 million) were up, driven by restructuring spend incurred mainly in France.

Value of new business: Adjusted SII basis (VNB)

| | 2017 £m | 2016 £m | Sterling % change | Constant currency % change |
|---|------------|------------|----------------------|----------------------------------|
| France (excluding Antarius) | 216 | 189 | 14% | 7% |
| Poland | 57 | 54 | 5% | (4)% |
| Italy | 179 | 83 | 116% | 102% |
| Ireland | 11 | 12 | (3)% | (9)% |
| Other Europe (excluding Unicorp, Caja España and Aviva Vida) ¹ | 30 | 26 | 12% | 23% |
| Total (excluding Antarius, Unicorp, Caja España and Aviva Vida) | 493 | 364 | 35% | 27% |
| Antarius ² | 12 | 36 | (67)% | (69)% |
| Unicorp, Caja España and Aviva Vida ³ | 28 | 29 | (5)% | (11)% |
| Total ⁴ | 533 | 429 | 24% | 17% |

Includes Spain and Turkey

In April 2017, Aviva sold its 50% shareholding in Antarius. The Antarius figures shown represent a full year for 2016 and up to completion of the disposal in 2017. In September 2017, Aviva sold its 50% shareholdings in life insurance and pension joint ventures Unicorp Vida and Caja España Vida, as well as its retail life insurance business Aviva Vida y Pensiones. The related figures shown

represent a full year for 2016 and up to completion of the disposal in 2017.

Following the launch of UK Insurance which brings together UK Life, UK General Insurance and UK Health into a combined business, the Ireland Life and General Insurance businesses have been aligned to the new management structure and reported within Europe. As a result, comparative balances have been restated. 4

VNB increased by 17%, and by 27% excluding disposed businesses, with a strong performance in Italy as a result of higher unit-linked and hybrid product volumes and an improved margin on with-profits products. VNB in France increased due to higher unit-linked and protection volumes, partly offset by lower volumes of with-profits products. Poland saw a 4% decrease, reflecting a market-wide reduction in unit-linked volumes. In Ireland, VNB was down 9% as a result of a very competitive annuity market reducing new business profitability.

Net written premium (NWP) and combined operating ratio (COR)

| | | | Net written premiums ¹ | | | Combined operating ratio ^{1,2} | | |
|---------------------|------------|------------|-----------------------------------|---------------------------|-----------|---|----------|--|
| | 2017 £m | 2016 £m | Sterling % change | Constant currency % | 2017 % | 2016 % | Change | |
| France | 1,053 | 957 | 10% | 3% | 94.5% | 97.0% | (2.5)pp | |
| Poland ³ | 117 | 86 | 36% | 25% | 86.7% | 97.8% | (11.1)pp | |
| Italy | 412 | 395 | 4% | (3)% | 94.2% | 92.5% | 1.7pp | |
| Ireland | 436 | 378 | 15% | 8% | 91.4% | 92.4% | (1.0)pp | |
| Total ⁴ | 2,018 | 1,816 | 11% | 4% | 93.3% | 95.1% | (1.8)pp | |

General insurance business only

The combined operating ratio is now reported on an earned basis. Comparatives have been realigned to reflect this change. See note 5 for details.

Poland net written premium and combined operating ratio excludes the joint venture in 2016 but has been consolidated for the first time in 2017. Following the launch of UK Insurance which brings together UK Life, UK General Insurance and UK Health into a combined business, the Ireland Life and General Insurance businesses have been aligned to the new management structure and reported within Europe. As a result, comparative balances have been restated.

Net written premiums

General insurance net written premiums of £2,018 million increased by 4% with growth in all our markets except Italy. In France and Ireland, general insurance NWP grew, primarily reflecting rating actions and strong growth in our direct business. In Poland, NWP increased by 25% to £117 million (2016: £86 million) with benefits from the consolidation of the joint venture partly offset by a reduction in motor volumes as part of underwriting actions taken. In Italy net written premiums decreased by 3% to £412 million (2016: £395 million) due to underwriting actions taken on segments of the motor book.

Combined operating ratio

The European COR has improved by 1.8pp primarily due to France's COR reducing by 2.5pp to 94.5% due to lower large losses and improved claims experience. Our claims ratio has decreased by 2.9pp to 63.1 % (2016: 66.0%) with an improvement across all markets except Italy. Most notably in Poland the claims ratio has improved due to underwriting action taken on motor business and the consolidation of the joint venture. The commission and expense ratio has increased due to a change in business mix, following the joint venture consolidation in Poland.

| Overview | Income & expenses | IFRS | Capital & liquidity | Analysis of assets | VNB & Sales analysis | Other information |
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|
| | | | | | | |

6.iii - Asia

| | 2017 £m | 2016 £m | Sterling % change | Constant currency % change |
|---|------------|------------|----------------------|----------------------------------|
| Operating profit | | | | |
| Life | 235 | 241 | (2)% | (4)% |
| General insurance & health | (8) | (13) | 38% | 42% |
| | 227 | 228 | _ | (2)% |
| Expenses | | | | |
| Operating expenses | 207 | 177 | 17% | 13% |
| Integration and restructuring costs | - | 17 | _ | _ |
| | 207 | 194 | 7% | 4% |
| Value of new business: Adjusted SII basis | 162 | 106 | 53% | 47% |
| Combined operating ratio ^{1,2} | 123.2% | 109.9% | 13.3pp | 13.3pp |
| Net written premiums ¹ | 13 | 11 | 18% | 9% |

 General insurance business only. The Combined operating ratio is now reported on an earned basis. Comparatives have been realigned to reflect this change. See note 5 for details.

2017 overview

Investment in Asia's distribution channels and digital and analytic capabilities continued throughout 2017. Singapore grew its core distribution platform, Aviva Financial Advisers, while China expanded its agency and broker channels. In January, we announced a new joint venture with Hillhouse Capital and Tencent Holdings Limited which focuses on digital insurance in Hong Kong.

We continue to reallocate capital to focus and strengthen our footprint in Asia. In July, we announced the disposal of Friends Provident International Limited (FPI) followed by the sale of our 49% stake in our joint venture in Taiwan in October. Meanwhile, we acquired the remaining 50% shareholding from VietinBank in April and we launched Aviva Vietnam in August.

All percentage movements below are quoted in constant currency unless otherwise stated.

Operating and financial performance Operating profit

| | 2017 £m | 2016 £m | Sterling % change | Constant currency % change |
|---|------------|------------|----------------------|----------------------------------|
| Life operating profit | | | | |
| Singapore | 118 | 112 | 5% | 91% |
| Other Asia (excluding FPI) | (2) | (11) | 82% | |
| Total (excluding FPI) | 116 | 101 | 15% | 10% |
| FPI ¹ | 119 | 140 | (15)% | (15)% |
| Total | 235 | 241 | (2)% | (4)% |
| General insurance & health operating profit | (8) | (13) | 38% | 42% |
| Total operating profit | 227 | 228 | _ | (2)% |

1 In July 2017, Aviva announced the sale of Friends Provident International Limited (FPI). The subsidiary has been classified as held for sale from July 2017, when management were committed to a plan to sell the business.

Operating profit from our life and general insurance and health businesses remained broadly flat at £227 million (2016: £228 million). Excluding FPI, life operating profit increased by 10% to £116 million (2016: £101 million) driven by higher profit generated from existing business in China, coupled with new business growth in Singapore from its financial advisory channel which was partially offset by our continued investments in digital and analytics capabilities.

The general insurance and health business reported a £8 million loss (2016: £13 million loss) as a result of higher claims experience from our health business in Singapore partly offset by an input tax refund from the local authority.

Cash

No dividends were remitted to Group during the year (2016: fnil) as we continue to reallocate capital to support growth in the region.

Expenses

Operating expenses were up by 13% to £207 million (2016: £177 million) reflecting the additional half year of expenses from Vietnam, higher distribution costs to support volume growth in Singapore and investment in digital and analytics capabilities.

Value of new business: Adjusted SII basis (VNB)

| | 2017 £m | 2016 £m | Sterling % change ¹ | Constant currency % change |
|-----------------------|------------|------------|-----------------------------------|----------------------------------|
| Singapore | 123 | 95 | 29% | 24% |
| Other Asia | 45 | 7 | 543% | 463% |
| Total (excluding FPI) | 168 | 102 | 65% | 57% |
| FPI ¹ | (6) | 4 | (250)% | (248)% |
| Total | 162 | 106 | 53% | 47% |

1 In July 2017, Aviva announced the sale of Friends Provident International Limited ('FPI'). The subsidiary has been classified as held for sale from July 2017, when management were committed to a plan to sell the business.

VNB increased by 47% to £162 million (2016: £106 million) reflecting higher volumes from Singapore's financial advisory channel. In China, VNB increased to £45 million (2016: £19 million) driven by sales growth in agency and broker channels and higher interest rates.

General insurance combined operating ratio (COR)

Net written premiums were £13 million (2016: £11 million). The combined operating ratio deteriorated by 13.3pp to 123.2% (2016: 109.9%) due to unfavourable claims experience and the continued softening of market premium rates for motor insurance in Singapore.

| Overview Income & expenses IFRS Capital & liquidity Analysis of assets VNB & Sales analysis Other | er information |
|--|----------------|
|--|----------------|

6.iv – Aviva Investors

| | 2017 £m | 2016 £m | Sterling % change |
|-------------------------------------|------------|------------|----------------------|
| Revenue: Fee income | 577 | 506 | 14% |
| Expenses | | | |
| Operating expenses | 409 | 367 | 11% |
| Integration and restructuring costs | 3 | 19 | (84)% |
| | 412 | 386 | 7% |
| Operating profit | | | |
| Fund management | 168 | 139 | 21% |
| Other operations | 32 | 19 | 68% |
| | 200 | 158 | 27% |
| Cash remitted to Group | 58 | 39 | 49% |

2017 overview

We have made progress in externalising the business and developing higher value outcome-oriented propositions for our clients. We currently invest more than £353 billion of assets under management (AUM) providing the size and scale to successfully seek out opportunities across multi-asset, fixed income, equity, real estate and alternative investments to deliver specific investor outcomes.

Operating and financial performance

Revenue

Revenue has increased by 14% to £577 million due to the full year impact of on-boarding £14 billion of Friends Life assets in 2016, a 40% growth in the Aviva Investors Multi-Strategy (AIMS) AUM to £12.6 billion (2016: £9.0 billion) and a 24% increase in the origination of infrastructure assets to £4.1 billion (2016: £3.3 billion). The share of revenue from external clients increased to 34% (2016: 32%).

Expenses

Operating expenses increased to £409 million (2016: £367 million). Cost increases have been controlled and reflect the investment required to support the growth of the business. Integration and restructuring costs were £3 million (2016: £19 million).

Operating profit

Fund management operating profit increased by 21% to £168 million (2016: £139 million) driven by growth in revenue, with operating expenses increasing at a slower rate. This led to a 2pp improvement in the operating profit margin, calculated as fund management operating profit expressed as a percentage of revenue, to 29% (2016: 27%).

Operating profit from other operations of £32 million related to insurance recoveries (2016: £19 million, of which £16 million was from the Group's internal reinsurer).

Cash

Cash remitted to Group increased by 49% to £58 million (2016: £39 million) due to growth in the profitability of the business.

Net flows and assets under management

AUM represents all assets managed by Aviva Investors. These comprise Aviva (internal) assets which are included within the Group's statement of financial position and those belonging to external clients outside the Aviva Group which are therefore not included in the Group's statement of financial position. These assets under management exclude those funds that are managed by third parties.

Internal legacy are assets managed by Aviva Investors on behalf of internal Aviva Clients relating to products that are no longer actively marketed.

| | Internal Legacy £m | Internal Core £m | External £m | Total £m |
|--|--------------------------|---------------------|----------------|-------------|
| Aviva Investors | | | | |
| Assets under management ¹ at 1 January 2017 | 97,290 | 190,667 | 56,561 | 344,518 |
| Total Inflows | 3,879 | 27,774 | 11,537 | 43,190 |
| Total Outflows | (10,101) | (21,097) | (10,356) | (41,554) |
| Net Flows | (6,222) | 6,677 | 1,181 | 1,636 |
| Net Flows into Liquidity Funds | (732) | 403 | 2,214 | 1,885 |
| Retention of external mandate ² | _ | (13,414) | 13,414 | _ |
| Disposals ³ | _ | _ | (714) | (714) |
| Market and foreign exchange movements | 603 | 3,209 | 2,090 | 5,902 |
| Assets under management at 31 December 2017 | 90,939 | 187,542 | 74,746 | 353,227 |

This is an Alternative Performance Measure (APM) which provides useful information to enhance the understanding of financial performance. See the glossary for further details. Retention of assets under management following sale of Antarius, resulting in a switch from Internal to External. Disposal of Real Estate fund in February 2017.

Assets under management increased to £353.2 billion (2016: £344.5 billion) due to a combination of net fund inflows of £1.6 billion, favourable foreign exchange rate movements of £3.3 billion, favourable liquidity movements of £1.9 billion and the effect of market movements of £2.6 billion offset by the disposal of the Real Estate fund of £0.7 billion. As at 31 December 2017, £12.6 billion (2016: £9.0 billion) of funds under management were invested within our flagship AIMS fund range.

| Overview | Income & expenses | IFRS | Capital & liquidity | Analysis of assets | VNB & Sales analysis | Other information |
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|

Profit drivers

7.i – Life business profit drivers

Life business operating profit before shareholder tax increased by 9% to £2,882 million (2016: £2,642 million), up 6% on a constant currency basis. Overall, total income increased by 2% to £4,714 million (2016: £4,645 million) and total expenses increased by 8% to £2,260 million (2016: £2,096 million). This increase in net income was partly offset by a higher benefit from DAC and other items, driven by changes in actuarial assumptions in the UK, to give a total increase in life operating profit of £240 million for the year. The increase also reflects a positive foreign exchange impact of £64 million largely driven by the strengthening of the euro against sterling.

| | Unite | d Kingdom ¹ | | Europe ¹ | | Asia ⁹ | | Total |
|--|-------------------------|-------------------------|-------------------------|-------------------------|----------------------|----------------------|---------------------------|---------------------------|
| | 2017 £m | 2016 £m | 2017 £m | 2016 £m | 2017 £m | 2016 £m | 2017 £m | 2016 £m |
| New business income ^{2,10} | 868 | 777 | 335 | 291 | 252 | 184 | 1,455 | 1,252 |
| Underwriting margin ^{3,10} | 280 | 310 | 215 | 239 | 85 | 76 | 580 | 625 |
| Investment return ⁴ | 1,281 | 1,316 | 1,171 | 1,170 | 227 | 282 | 2,679 | 2,768 |
| Total Income Acquisition expenses ⁵ Administration expenses ⁶ | 2,429 (431) (655) | 2,403 (383) (616) | 1,721 (326) (558) | 1,700 (287) (556) | 564 (191) (99) | 542 (158) (96) | 4,714 (948) (1,312) | 4,645 (828) (1,268) |
| Total Expenses DAC and other ⁷ | (1,086) 415 | (999) 119 | (884) 36 | (843) 19 | (290) (39) | (254) (47) | (2,260) 412 | (2,096) 91 |
| Other business ⁸ | 1,758 | 1,523 | 873 | 876 | 235 | 241 | 2,866 16 | 2,640 2 |

Total life business operating profit

Following the launch of UK Insurance which brings together UK Life, UK General Insurance and UK Health into a combined business, the Ireland Life and General Insurance businesses have been aligned to the new 1

management structure and reported within Europe. As a result, comparative balances have been restated. Represents the income earned on new business written during the period reflecting premiums less initial reserves

2

Underwriting margin represents the release of reserves held to cover claims, surrenders and expenses less the cost of actual claims and surrenders in the period

4 Represents the expected income on existing business (other than the underwriting margin). Life investment return comprises unit-linked margin, shareholders' return on participating business, spread margin and the expected return on shareholder assets.

2,882

2,642

Initial expenses and commission incurred in writing new business less deferred costs.

Initial expenses and commission incurred in writing new Dusiness less deterred costs. Expenses and renewal commissions incurred in managing existing business. DAC and other mainly include the Deferred Acquisition Cost asset that is amortised in the period and included in operating profit for existing business, assumption changes and other one-off items. Other business includes the total result for Aivia Investors Pooled Pensions and Aivia Life Reinsurance. Following a change in the 2017 methodology applied by FPI, the deferred actuarial funding which forms part of the deferred expense for the Investment return business was included in the Unit-linked margin and not DAC and other. Comparatives have been restated for Investment return and DAC and other. The change resulted in an increase in the Investment return and a decrease in DAC and other for Asia by £123 million. Overall this change has nil effect in the Total life operating profit for Asia and the Group.

10 This is an Alternative Performance Measure (APM) which provides useful information to enhance the understanding of financial performance. See the glossary for further details.

Income: New business income and underwriting margin

| | Unite | d Kingdom ¹ | | Europe ¹ | | Asia | | Total |
|--|------------|------------------------|------------|---------------------|------------|------------|------------|------------|
| | 2017 £m | 2016 £m | 2017 £m | 2016 £m | 2017 £m | 2016 £m | 2017 £m | 2016 £m |
| New business income (£m) | 868 | 777 | 335 | 291 | 252 | 184 | 1,455 | 1,252 |
| APE (£m) ^{2,3} | 2,893 | 2,373 | 1,327 | 1,319 | 358 | 270 | 4,578 | 3,962 |
| As margin on APE (%) | 30% | 33% | 25% | 22% | 70% | 68% | 32% | 32% |
| Acquisition expenses (£m) | (431) | (383) | (326) | (287) | (191) | (158) | (948) | (828 |
| Net contribution | 437 | 394 | 9 | 4 | 61 | 26 | 507 | 424 |
| Underwriting margin (£m) Analysed by: | 280 | 310 | 215 | 239 | 85 | 76 | 580 | 625 |
| Expenses | 63 | 62 | 65 | 70 | 65 | 47 | 193 | 179 |
| Mortality and longevity | 217 | 247 | 157 | 152 | 21 | 27 | 395 | 426 |
| Persistency | _ | 1 | (7) | 17 | (1) | 2 | (8) | 20 |

1 Following the launch of UK Insurance which brings together UK Life, UK General Insurance and UK Health into a combined business, the Ireland Life and General Insurance businesses have been aligned to the new management structure and reported within Europe. As a result, comparative balances have been restated.

Used as a measure of life sales. It is calculated as the sum of new regular premiums plus 10% of new single premiums written in the period. APE excludes UK Retail Fund Management and Health business in UK & Ireland and Asia.

This is an Alternative Performance Measure (APM) which provides useful information to enhance the understanding of financial performance. See the glossary for further details.

(a) New business income

New business income increased to £1,455 million (2016: £1,252 million), mainly driven by the UK, Asia and favourable foreign exchange movements of £25 million.

The net contribution from new business is the new business income less associated acquisition expenses (see (g) below). This increased to a profit of £507 million (2016: profit of £424 million).

In the UK, the net contribution from new business increased to £437 million (2016: £394 million) mainly driven by growth in the sales of individual protection business and annuities.

In Europe, the net contribution increased to £9 million (2016: £4 million) due to growth and margin improvements in Italy, consolidation of the joint venture with Bank Zachodni WBK SA for the first time in Poland offset by a reduced net contribution from France due to the disposal of the Antarius. New business margin on APE in Europe increased slightly to 25% (2016: 22%).

In Asia, the net contribution increased by 113% in constant currency terms to a profit of £61 million (2016: profit of £26 million) mainly as a result of higher sales in Singapore for with-profits business and higher sales volumes in China. New business margin on APE in Asia increased slightly to 70% (2016: 68%) due to higher acquisition expenses reflecting a change in product mix.

(b) Underwriting margin

The underwriting margin decreased to £580 million (2016: £625 million). This was driven by the UK, as the margin decreased to £280 million (2016: £310 million) mainly due to a reduction in mortality margins. In Europe, the underwriting margin decreased by 15% on a constant currency basis to a profit of £215 million (2016: £239 million) mainly due to lower persistency margins in Italy and Ireland.

In Asia, the underwriting margin increased by 7% in constant currency terms to £85 million (2016: £76 million) mainly due to adverse mortality margins in Singapore offset by favourable expense margins on non-participating annuities in China.

| Overview | Income & expenses | IFRS | Capital & liquidity | Analysis of assets | VNB & Sales analysis | Other information |
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|

7.i – Life business profit drivers continued

Income: Investment return

| | Unite | d Kingdom ¹ | | Europe ¹ | | Asia ⁷ | | Total |
|---|-------|------------------------|-------|---------------------|------|-------------------|-------|-------|
| | 2017 | 2016 | 2017 | 2016 | 2017 | 2016 | 2017 | 2016 |
| | £m | £m | £m | £m | £m | £m | £m | £m |
| Unit-linked margin^{2,8} (£m) | 847 | 798 | 585 | 546 | 202 | 235 | 1,634 | 1,579 |
| As annual management charge on average reserves (bps) | 73 | 75 | 138 | 148 | 213 | 276 | 97 | 104 |
| Average reserves (£bn) ⁶ | 116.8 | 106.7 | 42.3 | 36.8 | 9.5 | 8.5 | 168.6 | 152.0 |
| Participating business ³ (£m) | 164 | 192 | 487 | 527 | (4) | 15 | 647 | 734 |
| As bonus on average reserves (bps) | 34 | 38 | 73 | 79 | (10) | 43 | 55 | 61 |
| Average reserves (£bn) ⁶ | 48.1 | 50.3 | 66.4 | 66.3 | 3.9 | 3.5 | 118.4 | 120.1 |
| Spread margin^{4,8} (£m) | 271 | 267 | 6 | 13 | 12 | 9 | 289 | 289 |
| As spread margin on average reserves (bps) | 42 | 43 | 13 | 29 | 80 | 75 | 41 | 43 |
| Average reserves (£bn) ⁶ | 64.2 | 62.0 | 4.5 | 4.5 | 1.5 | 1.2 | 70.2 | 67.7 |
| Expected return on shareholder assets ⁵ (£m) | (1) | 59 | 93 | 84 | 17 | 23 | 109 | 166 |
| Total (£m) | 1,281 | 1,316 | 1,171 | 1,170 | 227 | 282 | 2,679 | 2,768 |

1 Following the launch of UK Insurance which brings together UK Life, UK General Insurance and UK Health into a combined business, the Ireland Life and General Insurance businesses have been aligned to the new

management structure and reported within Europe. As a result, comparative balances have been restated. Unit-linked margin represents the annual management charges on unit-linked business based on expected investment return. The shareholders' share of the return on with-profit and other participating business.

Spread margin represents the return made on annuity and other non-linked business, based on the expected investment return less amounts credited to policyholders

5

The expected investment return based on opening economic assumptions applied to expected surplus assets over the reporting period that are not backing policyholder liabilities. An average of the insurance or investment contract liabilities over the reporting period, including managed pension business which is not consolidated within the statement of financial position. Following a change in the 2017 methodology applied by FPI, the deferred actuarial funding which forms part of the deferred expense for the unit-linked business was included in the unit-linked margin and not DAC and other. Comparatives have been restated for Unit linked margin and DAC and other. The change resulted in an increase in the unit-linked margin and a decrease in DAC and other for Asia by £123 million. Overall this change has nil effect in the Total life operating profit for Asia and the Group. This is an Alternative Performance Measure (APM) which provides useful information to enhance the understanding of financial performance. See the glossary for further details.

(c) Unit-linked margin

Unit-linked average reserves have increased to £169 million (2016: £152 million), with the movement largely driven by favourable market performance in the UK. The unit-linked margin increased to £1,634 million (2016: £1,579 million). The margin as a proportion of average unitlinked reserves decreased at 97 bps (2016: 104 bps).

The unit-linked margin in UK has increased mainly due to favourable market movements and growth in the sales of group pensions. The margin on average reserves has decreased to 73 bps (2016: 75 bps) due to the expected run-off in the higher margin back book and lower margins on group pensions. The unit-linked margin in Europe increased to £585 million (2016: £546 million), mainly driven by the benefit of consolidating the Polish joint venture for the first time offset by lower margin in Italy due to change in product mix. The decrease in unit-linked margin in Asia to £202 million (2016: £235 million) is mainly due to lower sales volumes in FPI.

(d) Participating business

Participating average reserves have decreased to £118 million (2016: £120 million). Income from participating business decreased to £647 million (2016: £734 million). In the UK, income has decreased mainly due to lower bonus return reflecting timing of maturities. In Europe, income has decreased to £487 million (2016: £527 million) due to lower income in France following the disposal of Antarius. The majority of participating business income is earned in France, where there is a fixed management charge of around 50 bps on the Association Française d'Epargne et de Retraite 'AFER' business, which is the largest single component of this business.

(e) Spread margin

Spread business income, which mainly relates to UK in-force immediate annuity and equity release business, remained stable at £289 million (2016: £289 million). The spread margin decreased to 41 bps (2016:43 bps) mainly due to lower interest rates in the UK. In Europe, spread income decreased to £6 million (2016: £13 million), due to the sale of the Spain life business in September 2017. In Asia, spread business income increased to £12 million (2016: £9 million) due to higher volumes on non-participating business in China.

(f) Expected return on shareholder assets

Expected returns, representing investment income on surplus funds, decreased to £109 million (2016: £166 million). This is mainly due to the impact of the capital optimisation (hedging) activity in Friends Life and the fall in interest rates in the UK, both reducing the expected return on shareholder assets in UK Life.

7.i – Life business profit drivers continued

Expenses

| | Unite | d Kingdom ¹ | | Europe ¹ | | Asia | | Total |
|--|------------|------------------------|------------|---------------------|------------|------------|------------|------------|
| | 2017 £m | 2016 £m | 2017 £m | 2016 £m | 2017 £m | 2016 £m | 2017 £m | 2016 £m |
| Acquisition expenses (£m) | (431) | (383) | (326) | (287) | (191) | (158) | (948) | (828) |
| APE (£m) ² | 2,893 | 2,373 | 1,327 | 1,319 | 358 | 270 | 4,578 | 3,962 |
| As acquisition expense ratio on APE (%) | 15% | 16% | 25% | 22% | 53% | 59% | 21% | 21% |
| Administration expenses (£m) | (655) | (616) | (558) | (556) | (99) | (96) | (1,312) | (1,268) |
| As existing business expense ratio on average reserves (bps) | 29 | 28 | 49 | 52 | 66 | 73 | 37 | 37 |
| Average reserves (£bn) ³ | 229.1 | 218.9 | 113.2 | 107.6 | 14.9 | 13.2 | 357.2 | 339.7 |

1 Following the launch of UK Insurance which brings together UK Life. UK General Insurance and UK Health into a combined business. the Ireland Life and General Insurance businesses have been aligned to the new Pollowing the fault of or insulate which beings degrees on the order of the analyse or insulate and the analyse of the insulate of the insulat

(g) Acquisition expenses

Acquisition expenses increased to £948 million (2016: £828 million) primarily reflecting higher sales volumes in all segments. In the UK expenses increased to £431 million (2016: £383 million) driven by higher protection sales. In Europe acquisition expenses have increased by 8% on a constant currency basis, mainly driven by higher sales in Italy offset by the sale of Antarius in France.

In Asia acquisition expenses increased to £191 million (2016: £158 million) due to higher new business sales in China. The overall groupwide ratio of acquisition expenses to APE remained stable at 21% (2016: 21%).

(h) Administration expenses

Administration expenses increased to £1,312 million (2016: £1,268 million). The expense ratio remained stable at 37 bps (2016: 37 bps) on average reserves of £357 billion (2016: £340 billion). The increase in the UK is driven by increased investment in growth offset by continued cost control. Administration expenses in Europe have increased to £558 million (2016: £556 million) due to adverse exchange rate movements of £37 million, the consolidation of the joint venture in Poland, higher renewal commissions in Italy, driven by business mix, offset by the disposal of Antarius in France. Asia administration expenses increased slightly in constant currency terms by 1%.

The overall increase in life business acquisition and administration expenses was £164 million, with increased costs due to higher sales volumes in Italy, increased investment in growth and higher protection sales in the UK offset by lower expenses in France.

(i) DAC and other

DAC and other items increased to £412 million (2016: £91 million) mainly driven by assumption and modelling changes in the UK which benefitted from changes in longevity partially offset by strengthening of our expense assumptions and other reserve and modelling movements (refer 6.i - United Kingdom).

| Overview Income & expenses IFRS Capital & liquidity Analysis of assets VNB & Sales analysis Other information | Overview | Income & expenses | IFRS | Capital & liquidity | Analysis of assets | VNB & Sales analysis | Other informatio |
|---|----------|-------------------|------|---------------------|--------------------|----------------------|------------------|
|---|----------|-------------------|------|---------------------|--------------------|----------------------|------------------|

7.ii - General insurance and health

| | | UK | | Canada | Canada | | | | |
|---|-------------------|------------------|-----------------------------|----------------|------------------|--------------------|---------------------------|---------------------------------|------------------|
| 2017 | UK Personal £m | Commercial £m | Total UK ¹ £m | Personal £m | Commercial £m | Total Canada £m | Europe ¹ £m | Asia & Other ² £m | Total £m |
| General insurance | | | | | | | | | |
| Gross written premiums | 2,567 | 1,788 | 4,355 | 2,209 | 929 | 3,138 | 2,104 | 13 | 9,610 |
| Net written premiums | 2,501 | 1,577 | 4,078 | 2,171 | 857 | 3,028 | 2,018 | 17 | 9,141 |
| Net earned premiums | 2,461 | 1,554 | 4,015 | 2,103 | 841 | 2,944 | 2,001 | 16 | 8,976 |
| Net claims incurred | (1,457) | (992) | (2,449) | (1,583) | (543) | (2,126) | (1,262) | (19) | (5,856) |
| Of which claims handling costs | | | (149) | | | (119) | (59) | | (327) |
| Earned commission Earned expenses ³ | (647) (161) | (324) (188) | (971) (349) | (372) (201) | (178) (132) | (550) (333) | (390) (213) | (1) (6) | (1,912) (901) |
| Underwriting result | 196 | 50 | 246 | (53) | (12) | (65) | 136 | (10) | 307 |
| Longer-term investment return ⁴ | | | 163 | | | 115 | 79 | 3 | 360 |
| Other ⁵ | | | (1) | | | (4) | _ | — | (5) |
| Operating profit | | | 408 | | | 46 | 215 | (7) | 662 |
| Health insurance | | | | | | | | | |
| Underwriting result | | | 32 | | | _ | 7 | (5) | 34 |
| Longer-term investment return | | | 3 | | | — | 1 | — | 4 |
| Operating profit | | | 35 | | | _ | 8 | (5) | 38 |
| Total operating profit | | | 443 | | | 46 | 223 | (12) | 700 |
| General insurance combined operating ratio | | | | | | | | | |
| Claims ratio | 59.2% | 63.8% | 61.0% | 75.3% | 64.5% | 72.2% | 63.1% | | 65.3% |
| Commission ratio | 26.3% 6.5% | 20.8% | 24.2% 8.7% | 17.7% 9.5% | 21.1% 15.6% | 18.7% 11.3% | 19.5% 10.7% | | 21.3% |
| Expense ratio | | 12.1% | | | | | | | 10.0% |
| Combined operating ratio ⁶ | 92.0% | 96.7% | 93.9% | 102.5% | 101.2% | 102.2% | 93.3% | | 96.6% |
| Assets supporting general insurance and health business | | | 2 0 2 0 | | | 4 272 | 2 502 | 1.00 | 10.054 |
| Debt securities Equity securities | | | 3,020 492 | | | 4,273 247 | 2,592 33 | 169 | 10,054 772 |
| Investment property | | | 323 | | | 241 | 176 | _ | 499 |
| Cash and cash equivalents | | | 546 | | | 140 | 399 | 30 | 1,115 |
| Other ⁷ | | | 1,763 | | | 252 | 481 | 2 | 2,498 |
| Assets at 31 December 2017 | | | 6,144 | | | 4,912 | 3,681 | 201 | 14,938 |
| Debt securities | | | 3,718 | | | 4,349 | 2,535 | 197 | 10,799 |
| Equity securities | | | 7 | | | 235 | 25 | _ | 267 |
| Investment property | | | 208 | | | _ | 133 | - | 341 |
| Cash and cash equivalents | | | 757 | | | 115 | 267 | 23 | 1,162 |
| Other ⁷ | | | 1,464 | | | 256 | 309 | 3 | 2,032 |
| Assets at 31 December 2016 | | | 6,154 | | | 4,955 | 3,269 | 223 | 14,601 |
| Average assets | | | 6,149 | | | 4,934 | 3,475 | 212 | 14,770 |
| LTIR as % of average assets | | | 2.7% | | | 2.3% | 2.3% | 1.4% | 2.5% |

1

2

Following the launch of UK Insurance which brings together UK Life, UK General Insurance and UK Health into a combined business, the Ireland Life and General Insurance businesses have been aligned to the new management structure and reported within Europe. As a result, comparatives balances have been restated. Asia & Other includes Aviva Re. Earned expenses include claims handling costs and earned expenses included in general insurance COR above, plus operating expenses of other non-insurance operations. LTIR includes UK £52 million (2016: £62 million) and Ireland £6 million (2016: £7 million) relating to the internal loan. This is lower than 2016 primarily as a result of the reduction in the balance of this loan during 2017. Includes unwind of discount rate and pension scheme net finance costs. COR is calculated as incurred claims, semed commission and earned expenses, expressed as a percentage of net earned premiums. COR is calculated using unrounded numbers so minor rounding differences may exist. Includes loans and other financial investments. 3 4 5 6 7

| Overview | Income & expenses | IFRS | Capital & liquidity | Analysis of assets | VNB & Sales analysis | Other information |
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|

7.ii - General insurance and health continued

| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | | | UK | | Canada | Canada | | | | |
|---|-------------------------------------|---------|------------|---------|----------|------------|---------|---------|------|---------|
| General insurance 2,476 1,743 4,219 1,711 831 2,542 1,891 12 8,664 Ker written premiums ³ 2,408 1,522 3,930 1,680 773 2,453 1,811 12 8,664 Net claims incurred ² (1,602) (1,220) (2,222) (1,104) (433) (1,537) (1,133) (2,437) (1,537) (1,133) (2,41) (2,422) (1,242) (2,422) (1,104) (433) (5,27) (1,532) (2,41) (2,42) (1,104) (433) (5,27) (1,52) (6,61) (2,42) (1,11) | 2010 | | Commercial | | Personal | Commercial | | | | |
| Gross written premiums' 2,476 1,743 4,219 1,713 2,478 1,816 12 8,611 Net variten premiums' 2,295 1,526 3,821 1,680 773 2,433 1,816 12 8,211 Net carned premiums' 2,295 1,526 3,821 1,645 775 2,420 1,147 12 8,000 Net carned premiums' (1,602) (1,200) (2,822) (1,164) (1,83) (1,837) (1,644) (5,70) (1,644) (3,21) - (1,644) Earned commission (570) (310) (860) (283) (160) (443) (321) - (1,644) Linpext of hange in Ogden discount rate excluded from investment returm' 230 245 475 - - - - 473 399 232 105 649 3 339 0164'' 105 60 163 3339 0164'' 120 20 100 105 60 105 60 105 60 105 60 102 102 102 77 74 74 <td></td> <td>±Π</td> <td>£III</td> <td>±Π</td> <td>±Π</td> <td>žIII</td> <td>žIII</td> <td>žIII</td> <td>±Π</td> <td>±III</td> | | ±Π | £III | ±Π | ±Π | žIII | žIII | žIII | ±Π | ±III |
| Net witten premiums ² 2,408 1,522 3,930 1,680 773 2,453 1,816 12 8,211 Net atemate premiums ² 2,295 1,560 3,821 1,645 1,747 12 8,000 Net claims incurred ¹ (1,602) (1,232) (1,237) | | 2.476 | 1.743 | 4.219 | 1.711 | 831 | 2.542 | 1.891 | 12 | 8.664 |
| Net claims incurred: (1,602) (1,202) (2,822) (1,104) (433) (1,537) (1,153) (24) (5,536) Of which claims handling costs (137) (137) (137) (137) (1153) (24) (5,536) Earned commission (570) (130) (880) (283) (160) (433) (211) - (284) Impact of change in Ogden discount rate excluded from (180) (182) (150) (122) (182) (160) (182) Underwriting result 230 245 475 - 60 060 165 050 03 339 016* - 105 60 163 0105 806 - 162 24 - - 1 - 100 010 010 010 010 010 | | , | , | | , | | | , | | , |
| Of which claims handling costs (137) (137) (137) (137) (137) (130) (130) (130) (130) (130) (130) (130) (130) (130) (130) (130) (130) (130) (130) (130) (132) (122) (122) (122) (122) (122) (122) (122) (122) (122) (122) (122) (122) (121) (130) (130) (130) (130) (130) (130) (130) (130) (130) (130) (132) (110) < | Net earned premiums ² | 2,295 | 1,526 | 3,821 | 1,645 | 775 | 2,420 | 1,747 | 12 | 8,000 |
| Earned commission (570) (310) (880) (283) (160) (443) (321) - (164) Lamed expenses ¹ (180) (182) (362) (150) (122) (272) (182) (6) (822) Underwriting result 230 245 475 - - - - - - 475 Underwriting result 173 59 232 108 60 168 91 (18) 473 Longer-term investment return ⁶ (2) (4) - - (6) 69 339 Operating profit ² 28 - 7 (12) 21 Longer-term investment return 3 - 1 - 4 20 269 160 (15) 806 Commission ratio 28 - 7 (12) 23 269 168 (27) 833 General insurance combined operating ratio ² 69.8% 79.9% 73.8% 67.1% </td <td>Net claims incurred²</td> <td>(1,602)</td> <td>(1,220)</td> <td>(2,822)</td> <td>(1,104)</td> <td>(433)</td> <td>(1,537)</td> <td>(1,153)</td> <td>(24)</td> <td>(5,536)</td> | Net claims incurred ² | (1,602) | (1,220) | (2,822) | (1,104) | (433) | (1,537) | (1,153) | (24) | (5,536) |
| Earned expenses ⁴ (180) (182) (362) (150) (122) (272) (182) (6) (822) Impact of change in Ogden discount rate excluded from underwriting result 230 245 475 — — — — — — 475 Underwriting result 173 59 232 108 60 168 91 (18) 473 Longer-term investment return ⁵ 162 105 69 3 339 Other ⁶ 229 160 (15) 806 Health insurance 162 - - 7 7 12 23 Longer-term investment return 332 - - 1 - 4 Operating profit 31 - 8 12 27 Total operating profit 230% 73.8% 67.1% 55.9% 63.5% 66.0% 69.2% Commision ratio 24.8% 20.3% 17.2% 20.6% 10.3% 10.0% | Of which claims handling costs | | | (137) | | | (93) | (54) | _ | (284) |
| Impact of change in Ogden discount rate excluded from underwriting result 230 245 475 — — — — — 475 Underwriting result 173 59 232 108 60 168 91 18) 473 Longer-term investment return ⁵ 162 105 669 3 3339 Other ⁴ 20 269 160 15 806 Operating profit ² 289 160 15 806 Underwriting result 28 — — 7 1(2) 23 Longer-term investment return 33 — — 1 — 4 Operating profit 31 — — 8 (12) 7 Total operating profit 423 209 168 (27) 833 Generat insurance combined operating ratio ² 69.8% 79.9% 73.8% 67.1% 55.9% 63.5% 60.9% 92.9% 93.0% 95.1% 10.3% Combi | | , , | , , | () | · · · | · · · | · · · | , , | | |
| underwriting result 230 245 475 — 475 Longer-term investment return ⁹ (2) (2) (2) (2) (2) (2) (4) — — (6) Operating profit ² 280 — — 7 (12) 23 Longer-term investment return 3 — 1 — 4 3 — 1 — 4 3 333 — 1 27 7 123 233 General insurance combined operating ratio? 69.8% 79.9% 73.8% 67.1% 55.9% 63.5% 66.9.0% 20.6% 69.2% Combined operating ratio. 20.6% 69.2% | | (180) | (182) | (362) | (150) | (122) | (272) | (182) | (6) | (822) |
| Underwriting result ² 173 59 232 108 60 168 91 (18) 473 Longer-term investment return ⁵ 162 105 69 3 339 Other ⁶ (2) (4) - - (6) Operating profit ² 392 269 160 (15) 806 Health insurance 28 - 7 (12) 23 Longer-term investment return 3 - 1 - 4 Operating profit 31 - 8 (12) 27 Total operating profit ³ 423 269 168 (27) 833 General insurance combined operating ratio ² Claims ratio ³ 67.1% 55.9% 63.5% 66.0% 20.9% 20.3% 23.9% 93.4% 92.2% 93.0% 95.1% 100.3% Combined operating ratio ² 102.4% 12.1% 106.3% 93.4% 92.2% 93.0% 95.1% 94.1% 10.3% <t< td=""><td></td><td>230</td><td>245</td><td>475</td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td>175</td></t<> | | 230 | 245 | 475 | _ | _ | _ | _ | _ | 175 |
| Longer-term investment return ⁵ 162 105 69 3 339 Other ⁴ (2) (4) - - (6) Operating profit ² 392 269 160 (15) 806 Health insurance 28 - 7 (12) 23 Longer-term investment return 3 - 1 - 4 Operating profit 3 - 8 (12) 27 Total operating profit ² 423 269 168 (27) 833 General insurance combined operating ratio ² Gameral insurance insurance combined operating ratio ² 69.8% 79.9% 73.8% 67.1% 55.9% 63.5% 66.0% 20.6% 20.6% 20.6% 10.3% 20.6% 10.3% 20.6% 10.3% 20.6% 10.3% 20.6% 10.3% 20.6% 20.6% 20.6% 20.6% 20.6% 20.6% 20.6% 20.6% 20.6% 20.6% 20.6% 20.6% 20.6% 20.6% 20.6% | | | | - | 108 | 60 | 168 | | | |
| Other (2) (4) - - (6) Operating profit ² 392 269 160 (15) 806 Health insurance 392 - 7 (12) 23 Longer-term investment return 3 - 7 (12) 23 Coperating profit 31 - 8 (12) 27 Total operating profit 423 269 168 (27) 833 General insurance combined operating ratio ² 69.8% 79.9% 73.8% 67.1% 55.9% 63.5% 66.0% 20.6% 18.3% 80.92% 20.6% 10.3% 20.6% 10.3% 20.6% 10.3% 20.6% 10.3% 20.6% 10.3% 20.6% 10.3% 20.6% 10.3% 20.6% 10.3% 20.6% 10.3% 20.6% 10.3% 20.6% 10.3% 20.6% 10.3% 20.6% 10.3% 20.6% 10.3% 20.6% 10.3% 20.6% 10.3% 20.6% 10.3% 20.6 | | 115 | 55 | | 100 | 00 | | | () | |
| Operating profit ² 392 269 160 (15) 806 Health insurance Underwriting result Longer-term investment returm 28 - - 7 (12) 23 Longer-term investment returm 3 - 1 - 4 Operating profit 31 - 8 (12) 27 Total operating profit ² 423 269 168 (27) 833 General insurance combined operating ratio ² G9.8% 79.9% 73.8% 67.1% 55.9% 63.5% 66.0% 20.6% Commission ratio 24.8% 20.3% 23.0% 17.2% 20.6% 18.3% 18.7% 20.6% Combined operating ratio, excluding the impact of change in Ogden discount rate ⁷ 102.4% 101.4% 93.9% 93.4% 92.2% 93.0% 95.1% 100.1% Combined operating ratio, excluding the impact of change in Ogden discount rate ⁷ 92.5% 96.1% 93.9% 93.4% 92.2% 93.0% 95.1% 94.1% Assets supporting general insurance and healt | | | | | | | | | | |
| Underwriting result 28 - 7 (12) 23 Longer-term investment return 31 - 1 - 4 Operating profit 31 - 8 (12) 23 Total operating profit ² 423 269 168 (27) 833 General insurance combined operating ratio ² 69.8% 79.9% 73.8% 67.1% 55.9% 63.5% 66.0% 69.2% Combined operating ratio 24.8% 20.3% 23.0% 17.2% 20.6% 18.3% 18.7% 10.3% Combined operating ratio ⁷ 102.4% 112.1% 106.3% 93.4% 92.2% 93.0% 95.1% 100.1% Combined operating ratio, excluding the impact of change in Ogden discount rate ⁷ 92.5% 96.1% 93.9% 93.4% 92.2% 93.0% 95.1% 100.1% Assets supporting general insurance and health business 266 7 235 25 - 267 Debt securities 7 115 267 23 1,462 256 309 3 2,032 Asest at 3 | Operating profit ² | | | | | | 269 | 160 | (15) | |
| Longer-term investment return 3 — 1 — 4 Operating profit 31 — 8 (12) 27 Total operating profit ² 423 269 168 (27) 833 General insurance combined operating ratio ² 69.8% 79.9% 73.8% 67.1% 55.9% 66.0% 69.2% 20.6% 18.3% 18.7% 20.6% Commission ratio 24.8% 20.3% 23.0% 17.2% 20.6% 18.3% 18.7% 20.6% Expense ratio 7.8% 112.1% 106.3% 93.4% 92.2% 93.0% 95.1% 94.1% Ogden discount rate ² 92.5% 96.1% 93.9% 93.4% 92.2% 93.0% 95.1% 94.1% Assets supporting general insurance and health business 3.718 4.349 2.535 197 10.799 Equity securities 7 235 25 - 261 Investment property 208 - 133 - 341 < | Health insurance | | | | | | | | | |
| Operating profit 31 8 (12) 27 Total operating profit ² 423 269 168 (27) 833 General insurance combined operating ratio ² 69.8% 79.9% 73.8% 67.1% 55.9% 63.5% 66.0% 29.2% Commission ratio 24.8% 20.3% 22.0% 17.2% 20.6% 18.3% 18.7% 20.6% Expense ratio 7.8% 11.9% 9.5% 9.1% 15.7% 11.2% 10.4% 10.3% Combined operating ratio, excluding the impact of change in oglen discount rate? 92.5% 96.1% 93.9% 92.2% 93.0% 95.1% 94.1% Assets supporting general insurance and health business 7 225 25 - 267 Debt securities 7 235 267 20.3% 32.4% 92.2% 93.0% 95.1% 94.1% Assets supporting general insurance and health business 7 235 25 - 267 10.79 24.449 2,535 197 | Underwriting result | | | | | | — | | (12) | 23 |
| Total operating profit? 423 269 168 (27) 833 General insurance combined operating ratio? 69.8% 79.9% 73.8% 67.1% 55.9% 63.5% 66.0% 69.2% Commission ratio 24.8% 20.3% 23.0% 17.2% 20.6% 18.3% 18.7% 20.6% Combined operating ratio? 102.4% 112.1% 106.3% 93.4% 92.2% 93.0% 95.1% 100.3% Combined operating ratio 7.8% 11.9% 93.4% 92.2% 93.0% 95.1% 100.3% Combined operating ratio 002.4% 12.1% 106.3% 93.4% 92.2% 93.0% 95.1% 100.3% Combined operating ratio 92.5% 96.1% 93.9% 93.4% 92.2% 93.0% 95.1% 100.3% Combined operating general insurance and health business 3/718 4,349 2,535 197 10,799 Equity securities 7 235 25 - 267 Investment property | Longer-term investment return | | | 3 | | | _ | 1 | | 4 |
| General insurance combined operating ratio ² G9.8% 79.9% 73.8% 67.1% 55.9% 63.5% 66.0% 69.2% Commission ratio 24.8% 20.3% 23.0% 17.2% 20.6% 18.3% 18.7% 20.6% Expense ratio 7.8% 11.9% 9.5% 9.1% 15.7% 11.2% 10.4% 10.3% Combined operating ratio, excluding the impact of change in ogde discount rate? 92.5% 96.1% 93.4% 92.2% 93.0% 95.1% 100.1% Combined operating ratio, excluding the impact of change in ogde discount rate? 92.5% 96.1% 93.4% 92.2% 93.0% 95.1% 94.1% Assets supporting general insurance and health business 7 235 25 - 267 Investment property 208 - 133 - 341 24.64 256 309 3 2,032 Assets at 31 December 2016 6,154 4,955 3,269 223 14,601 Debt securities 8 188 21 - | Operating profit | | | 31 | | | _ | 8 | (12) | 27 |
| Claims ratio ² 69.8% 79.9% 73.8% 67.1% 55.9% 63.5% 66.0% 69.2% Commission ratio 24.8% 20.3% 23.0% 17.2% 20.6% 18.3% 18.7% 20.6% Expense ratio 7.8% 11.9% 9.5% 9.1% 15.7% 11.2% 10.4% 10.3% Combined operating ratio ⁷ 102.4% 112.1% 106.3% 93.4% 92.2% 93.0% 95.1% 100.1% Combined operating ratio, excluding the impact of change in general insurance and health business 93.9% 93.4% 92.2% 93.0% 95.1% 94.1% Assets supporting general insurance and health business 3,718 4,349 2,535 197 10,799 Equity securities 7 203 - 267 23 1,162 Other ⁸ 757 115 267 23 1,162 Other ⁸ 8 14,64 256 309 3 2,032 Assets at 31 December 2016 6,154 4,955 3,269 223 14,601 Investment property 8 188 | Total operating profit ² | | | 423 | | | 269 | 168 | (27) | 833 |
| Commission ratio 24.8% 20.3% 23.0% 17.2% 20.6% 18.3% 18.7% 20.6% Expense ratio 7.8% 11.9% 9.5% 9.1% 15.7% 11.2% 10.4% 10.3% Combined operating ratio, excluding the impact of change in Ogden discount rate ⁷ 92.5% 96.1% 93.9% 93.4% 92.2% 93.0% 95.1% 94.1% Assets supporting general insurance and health business 3,718 4,349 2,555 197 10,799 Equity securities 7 208 - 115 267 23 1,162 Investment property 208 - 115 267 23 1,162 Cothe ⁸ 1,464 256 309 3 2,032 Assets at 31 December 2016 6,154 4,955 3,269 223 14,601 Debt securities 8 18.8% 18.7% 11.5 267 23 1,162 Other ⁸ 11.464 256 309 3 2,032 2,032 2,032 2,032 2,032 2,032 2,032 2,032 | | | | | | | | | | |
| Expense ratio 7.8% 11.9% 9.5% 9.1% 15.7% 11.2% 10.4% 10.3% Combined operating ratio, excluding the impact of change in Ogden discount rate ⁷ 92.5% 96.1% 93.4% 92.2% 93.0% 95.1% 94.1% Assets supporting general insurance and health business 3,718 4,349 2,535 197 10,799 Equity securities 7 235 25 9 267 235 25 9 267 Investment property 208 - 113 - 341 Cash and cash equivalents 757 115 267 233 2,032 Assets at 31 December 2016 6,154 4,955 3,269 22.3 14,601 Debt securities 8 188 21 - 217 Investment property 198 - 137 - 335 Cother ⁸ 188 21 - 217 213 - 214 Debt securities 8 188 21 - 217 - 335 33.993 2,999 2,40 | | | | | | | | | | |
| Combined operating ratio? 102.4% 112.1% 106.3% 93.4% 92.2% 93.0% 95.1% 100.1% Combined operating ratio, excluding the impact of change in Ogden discount rate? 92.5% 96.1% 93.9% 93.4% 92.2% 93.0% 95.1% 100.1% Assets supporting general insurance and health business 92.5% 96.1% 93.9% 93.4% 92.2% 93.0% 95.1% 94.1% Assets supporting general insurance and health business 3,718 4,349 2,535 197 10,799 Equity securities 7 235 25 - 267 Investment property 208 - 115 267 23 1,162 Chther ⁸ 757 115 267 23 1,162 3,269 2,309 3,209 3,209 3,209 3,209 3,203 93.3 2,999 2,407 209 9,608 Gother ⁸ 3,993 2,999 2,407 209 9,608 2,559 3,269 223 14,601 | | | | | | | | | | |
| Combined operating ratio, excluding the impact of change in Ogden discount rate? 92.5% 96.1% 93.9% 93.4% 92.2% 93.0% 95.1% 94.1% Assets supporting general insurance and health business 3,718 4,349 2,535 197 10,799 Equity securities 7 235 25 - 267 Investment property 208 - 133 - 341 Cash and cash equivalents 757 115 267 23 1,162 Other ⁸ 757 115 267 23 1,162 Other ⁸ 3,993 2,999 2,407 209 9,608 Equity securities 3,993 2,999 2,407 209 9,608 Equity securities 8 1188 21 - 217 Investment property 93.993 2,999 2,407 209 9,608 Equity securities 8 1188 21 - 217 Investment property 198 - 137< | | | | | | | | | | |
| Ogden discount rate ⁷ 92.5% 96.1% 93.9% 93.4% 92.2% 93.0% 95.1% 94.1% Assets supporting general insurance and health business 3,718 4,349 2,535 197 10,799 Equity securities 7 235 25 - 267 Investment property 208 - 115 267 23 1,162 Cash and cash equivalents 757 115 267 23 2,032 Other ⁸ 6,154 4,955 3,269 223 14,601 Debt securities 3,993 2,999 2,407 209 9,608 Equity securities 8 188 21 - 217 Investment property 198 - 137 | | 102.470 | 112.170 | 100.570 | 93.470 | 92.270 | 93.070 | 55.170 | | 100.170 |
| OAssets supporting general insurance and health businessDebt securities $3,718$ $4,349$ $2,535$ 197 $10,799$ Equity securities 7 235 25 $ 267$ Investment property 208 $ 133$ $ 341$ Cash and cash equivalents 757 115 267 23 $1,162$ Other ⁸ $1,464$ 256 309 3 $2,032$ Assets at 31 December 20166,154 $4,955$ $3,269$ 223 $14,601$ Debt securities $3,993$ $2,999$ $2,407$ 209 $9,608$ Equity securities $3,993$ $2,999$ $2,407$ 209 $9,608$ Equity securities $6,154$ $4,955$ $3,269$ 223 $14,601$ Debt securities $3,993$ $2,999$ $2,407$ 209 $9,608$ Equity securities 8 188 21 $ 217$ Investment property 198 $ 137$ $ 335$ Cash and cash equivalents 639 107 197 26 969 Other ⁸ $2,559$ 135 313 1 $3,008$ Assets at 31 December 2015 $7,397$ $3,429$ $3,075$ 236 $14,137$ Average assets $6,776$ $4,192$ $3,172$ 229 $14,369$ | | 92.5% | 96.1% | 93.9% | 93.4% | 92.2% | 93.0% | 95.1% | | 94.1% |
| Debt securities 3,718 4,349 2,535 197 10,799 Equity securities 7 235 25 - 267 Investment property 208 - 133 - 341 Cash and cash equivalents 757 115 267 23 1,162 Other ⁸ 1,464 256 309 3 2,032 Assets at 31 December 2016 6,154 4,955 3,269 223 14,601 Debt securities 3,993 2,999 2,407 209 9,608 Equity securities 8 188 21 - 217 Investment property 8 188 21 - 217 Investment property 639 107 197 26 969 Cash and cash equivalents 639 107 197 26 96 Other ⁸ 2,559 135 313 1 3,008 Assets at 31 December 2015 7,397 3,429 3,075 236 14,137 Average assets 6,776 4,192 | <u> </u> | | | | | | | | | |
| Investment property208133341Cash and cash equivalents757115267231,162Other81,46425630932,032Assets at 31 December 20166,1544,9553,26922314,601Debt securities3,9932,9992,4072099,608Equity securities818821217Investment property198137335Cash and cash equivalents63910719726969Other82,55913531313,008Assets at 31 December 20157,3973,4293,07523614,137Average assets6,7764,1923,17222914,369 | | | | 3,718 | | | 4,349 | 2,535 | 197 | 10,799 |
| Cash and cash equivalents757115267231,162Other81,46425630932,032Assets at 31 December 20166,1544,9553,26922314,601Debt securities3,9932,9992,4072099,608Equity securities818821-217Investment property198-137-335Cash and cash equivalents63910719726969Other82,55913531313,008Assets at 31 December 20157,3973,4293,07523614,137Average assets6,7764,1923,17222914,369 | | | | | | | 235 | | _ | |
| Other ⁸ 1,464 256 309 3 2,032 Assets at 31 December 2016 6,154 4,955 3,269 223 14,601 Debt securities 3,993 2,999 2,407 209 9,608 Equity securities 8 188 21 - 217 Investment property 198 - 137 - 335 Cash and cash equivalents 639 107 197 26 969 Other ⁸ 2,559 135 313 1 3,008 Assets at 31 December 2015 7,397 3,429 3,075 236 14,137 Average assets 6,776 4,192 3,172 229 14,369 | | | | | | | | | | |
| Assets at 31 December 2016 6,154 4,955 3,269 223 14,601 Debt securities 3,993 2,999 2,407 209 9,608 Equity securities 8 188 21 - 217 Investment property 198 - 137 - 335 Cash and cash equivalents 639 107 197 26 969 Other ⁸ 2,559 135 313 1 3,008 Assets at 31 December 2015 7,397 3,429 3,075 236 14,137 Average assets 6,776 4,192 3,172 229 14,369 | | | | | | | | | | , |
| Debt securities 3,993 2,999 2,407 209 9,608 Equity securities 8 188 21 - 217 Investment property 198 - 137 - 335 Cash and cash equivalents 639 107 197 26 969 Other ⁸ 2,559 135 313 1 3,008 Assets at 31 December 2015 7,397 3,429 3,075 236 14,137 Average assets 6,776 4,192 3,172 229 14,369 | | | | , | | | | | | , |
| Equity securities 8 188 21 - 217 Investment property 198 - 137 - 335 Cash and cash equivalents 639 107 197 26 969 Other ⁸ 2,559 135 313 1 3,008 Assets at 31 December 2015 7,397 3,429 3,075 236 14,137 Average assets 6,776 4,192 3,172 229 14,369 | | | | | | | | , | | , |
| Investment property Cash and cash equivalents Other ⁸ 198 137 335 Cash and cash equivalents Other ⁸ 639 107 197 26 969 Assets at 31 December 2015 7,397 3,429 3,075 236 14,137 Average assets 6,776 4,192 3,172 229 14,369 | | | | | | | , | | | , |
| Cash and cash equivalents 639 107 197 26 969 Other ⁸ 2,559 135 313 1 3,008 Assets at 31 December 2015 7,397 3,429 3,075 236 14,137 Average assets 6,776 4,192 3,172 229 14,369 | | | | | | | | | | |
| Other ⁸ 2,559 135 313 1 3,008 Assets at 31 December 2015 7,397 3,429 3,075 236 14,137 Average assets 6,776 4,192 3,172 229 14,369 | | | | | | | | | | |
| Average assets 6,776 4,192 3,172 229 14,369 | | | | | | | | | | |
| | Assets at 31 December 2015 | | | 7,397 | | | 3,429 | 3,075 | 236 | 14,137 |
| LTIR as % of average assets 2.4% 2.5% 2.2% 1.3% 2.4% | Average assets | | | 6,776 | | | 4,192 | 3,172 | 229 | 14,369 |
| | LTIR as % of average assets | | | 2.4% | | | 2.5% | 2.2% | 1.3% | 2.4% |

1

2

З

4 5 6 7

Following the launch of UK Insurance which brings together UK Life, UK General Insurance and UK Health into a combined business, the Ireland Life and General Insurance businesses have been aligned to the new management structure and reported within Europe. As a result, comparatives balances have been restated. Excludes the impact from an outward quota share reinsurance agreement written in 2015 and completed in 2016 in Aviva Insurance Limited (AIL). See note A10 for further details. Asia & Other includes Aviva Re. Earned expenses include claims handling costs and earned expenses included in general insurance COR above, plus operating expenses of other non-insurance operations. LTIR includes UK E62 million (*2015: £100 million*) and Ireland £7 million (*2015: £15 million*) relating to the internal loan. This is lower than 2015 primarily as a result of the reduction in the balance of this loan during 2016. Includes unwind of discount rate and pension scheme net finance costs. COR is calculated as incurred claims, earned commission and earned expenses, expressed as a percentage of net earned premiums. COR is calculated using unrounded numbers so minor rounding differences may exist. Includes loans and other financial investments. 8

| Overview | Income & expenses | IFRS | Capital & liquidity | Analysis of assets | VNB & Sales analysis | Other information |
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|
| | | | | | | |

7.iii – Fund flows

Net flows is one of the measures of growth used by management and is a component of the movement in Life and platform business managed assets (excluding UK with-profits) during the period. It is the difference between the inflows (being IFRS net written premiums plus deposits received under investment contracts) and outflows (being IFRS net paid claims plus redemptions and surrenders under investment contracts). It excludes market and other movements.

| assets at 1 | deposits, net | Claims and redemptions, net of reinsurance £m | Net flows ^{1,2} £m | Market and other movements £m | Managed assets at 31 December 2017 ³ £m |
|---------------------------------------|--|--|---|---|--|
| | | | | | |
| 12,963 91,589 | 7,701 7,225 | (1,482) (7,837) | 6,219 (612) | 1,056 6,993 | 20,238 97,970 |
| 104,552 57,316 25,851 | 14,926 2,777 1,355 | (9,319) (2,671) (2,717) | 5,607 106 (1,362) | 8,049 3,375 238 | 118,208 60,797 24,727 |
| 187,719 119,831 13,456 1,599 | 19,058 11,000 737 31 | (14,707) (8,169) (419) (483) | 4,351 2,831 318 (452) | 11,662 (8,594) 752 143 | 203,732 114,068 14,526 1,290 |
| 322,605 61,796 | 30,826 | (23,778) | 7,048 | 3,963 | 333,616 58,200 391,816 |
| | assets åt 1 January 2017 Ém 12,963 91,589 104,552 57,316 25,851 187,719 119,831 13,456 1,599 322,605 | January 2017 Ém freinsurânce Ém 12,963 7,701 91,589 7,225 104,552 14,926 57,316 2,777 25,851 1,355 187,719 19,058 119,831 11,000 13,456 737 1,599 31 322,605 30,826 61,796 | Managed assets at 1 January 2017 Ém Premiums and deposits, net feinsurance £m redemptions, net of reinsurance £m 12,963 7,701 (1,482) 91,589 7,225 (7,837) 104,552 14,926 (9,319) 57,316 2,777 (2,671) 25,851 1,355 (2,717) 187,719 19,058 (14,707) 119,831 11,000 (8,169) 13,456 737 (419) 1,599 31 (483) 322,605 30,826 (23,778) | Managed assets at 1 January 2017 Ém Premiums and deposits, net for insurance redemptions, net of reinsurance Net flows ^{1,2} Ém 12,963 7,701 (1,482) 6,219 91,589 7,225 (7,837) (612) 104,552 14,926 (9,319) 5,607 57,316 2,777 (2,671) 106 25,851 1,355 (2,717) (1,362) 187,719 19,058 (14,707) 4,351 119,831 11,000 (8,169) 2,831 13,456 737 (419) 318 1,599 31 (483) (452) 322,605 30,826 (23,778) 7,048 | Managed assets at 1 January 2017 Premiums and deposits, net feinsurance redemptions, net of reinsurance Market and net of reinsurance 12,963 7,701 (1,482) 6,219 1,056 91,589 7,225 (7,837) (612) 6,993 104,552 14,926 (9,319) 5,607 8,049 57,316 2,777 (2,671) 106 3,375 25,851 1,355 (2,717) (1,362) 238 187,719 19,058 (14,707) 4,351 11,662 119,831 11,000 (8,169) 2,831 (8,594) 13,456 737 (419) 318 752 1,599 31 (483) (452) 143 322,605 |

Life business net flows in the table above are net of reinsurance. 1

For the period to 31 December 2017, net flows of £7.0 billion includes net flows of £3.4 billion that are included in the IFRS income statement within net written premiums and net paid claims. Life and platform business managed assets at the balance sheet date includes financial investments, loans, investment property, externally reinsured non-participating investment contracts and cash and cash equivalents included on the IFRS statement of financial position, plus assets administered by the Group that are not included on the IFRS statement of financial position. At 31 December 2017, life and platform business managed assets of

E392 billion (F/16: £394 billion) includes £374 billion (20:6: £373 billion) that is on the IFRS statement of financial position. Following the launch of UK Insurance which brings together UK Life, UK General Insurance and UK Health into a combined business, the Ireland Life and General Insurance businesses have been aligned to the new management structure and reported within Europe. As a result, comparative balances have been restated. 4.

Includes platform and pensions business and externally reinsured non-participating investment contracts

United Kingdom & Ireland (excluding UK with-profits)

UK long-term savings managed assets have increased to £118 billion (2016: £105 billion) during the period. Within this, net inflows were £5.6 billion mainly reflecting continued growth from our platform businesses of £6.2 billion with administered assets increasing by 56% in the period to £20.2 billion (2016: £13.0 billion).

UK annuities and equity release inflows were £0.1 billion, including increased bulk purchase annuity volumes in 2017. Other non-profit outflows were £1.4 billion driven by net outflows in Bonds & Savings as the book continues to run off as expected. Market and other movements include favourable market movements driven by narrowing spreads and growth in equities.

Europe

Net inflows of £2.8 billion were mainly driven by sales of hybrid products in Italy. Market and other movements in Europe reflect the disposal of £11.4 billion of investment assets following the sale of Antarius in France and the disposal of the majority of our business in Spain (£4.9 billion). These disposals were partly offset by favourable foreign exchange movements of £4.5 billion and investment market movements of £3.2 billion.

Asia and other

Net inflows in Asia were £0.3 billion arising mainly in Singapore. Other business net outflows of £0.5 billion primarily relate to Aviva Investors' Pooled Pensions business.

Capital & assets summary

8.i – Summary of assets

The Group asset portfolio is invested to generate competitive investment returns for both policyholders and shareholders while remaining within the Group's appetite for market, credit and liquidity risk.

The Group has a low appetite for interest rate risk and currency risk which means that the asset portfolios are well matched by duration and currency to the liabilities they cover. The Group also runs a low level of liquidity risk which results in a high proportion of income generating assets and a preference for more liquid assets where there is the potential need to realise those assets before maturity.

The Group seeks to diversify its asset portfolio in order to reduce risk and provide more attractive risk-adjusted returns. In order to achieve this there is a comprehensive risk limit framework in place. There is an allowance for diversification in our capital model and we continue to broaden the investment portfolio in individual businesses.

Asset allocation decisions are taken at legal entity level and in many cases by fund within a legal entity in order to reflect the nature of the liabilities, customer expectations, the local accounting and regulatory treatment, and any local constraints. These asset allocation decisions are made in accordance with a group-wide framework that takes into account consensus investment views across the Group, prioritised Group objectives and metrics and Group risk limits and constraints. This framework is overseen by the Group Asset Liability Committee (ALCO) and facilitates a consistent approach to asset allocation across the business units in line with Group risk appetite and shareholder objectives.

The asset allocation as at 31 December 2017 across the Group, split according to the type of liability the assets are covering, is shown in the table below. Further information on these assets is given in the Analysis of Assets Section.

| | Shareholder b | usiness assets | | Participat | ing fund assets | | | |
|---|--|---------------------------------|---|--------------------------------|---|--------------------------------|---|---|
| Carrying value in the statement of financial position | General Insurance & health & other ¹ £m | Annuity and non-profit £m | Policyholder (unit-linked assets) £m | UK style with profits £m | Continental European- style Participating funds £m | Total assets analysed £m | Less assets of operation classified as held for sale £m | Carrying value in the statement of financial position £m |
| Debt securities | | | | | | | | |
| Government bonds | 6,374 | 16,044 | 14,888 | 16,998 | 28,698 | 83,002 | (541) | 82,461 |
| Corporate bonds | 4,064 | 20,369 | 13,750 | 16,567 | 26,369 | 81,119 | (586) | 80,533 |
| Other | 343 | 1,992 | 2,349 | 1,041 | 6,102 | 11,827 | (13) | 11,814 |
| | 10,781 | 38,405 | 30,987 | 34,606 | 61,169 | 175,948 | (1,140) | 174,808 |
| Loans | | | | | | | | |
| Mortgage loans | _ | 20,189 | _ | 91 | _ | 20,280 | _ | 20,280 |
| Other loans | 187 | 4,139 | 8 | 2,516 | 733 | 7,583 | (6) | 7,577 |
| | 187 | 24,328 | 8 | 2,607 | 733 | 27,863 | (6) | 27,857 |
| Equity securities | 800 | 195 | 74,110 | 13,064 | 1,994 | 90,163 | (195) | 89,968 |
| Investment property | 406 | 169 | 6,256 | 2,357 | 1,609 | 10,797 | _ | 10,797 |
| Other investments | 1,407 | 2,479 | 42,368 | 2,179 | 4,844 | 53,277 | (6,971) | 46,306 |
| Total as at 31 December 2017 | 13,581 | 65,576 | 153,729 | 54,813 | 70,349 | 358,048 | (8,312) | 349,736 |
| Total as at 31 December 2016 | 14,152 | 65,628 | 132,901 | 56,672 | 76,863 | 346,216 | (10,829) | 335,387 |

1 Of the £13.6 billion of assets 6% relates to other shareholder business assets

There is an internal loan between Aviva Insurance Limited (AIL) and Aviva Group Holdings Limited (AGH) that has a net value of zero at a consolidated level.

General insurance and health

All the investment risk is borne by shareholders and the portfolio held to cover these liabilities contains a high proportion of fixed and variable income securities, of which 82% are rated A or above. The assets are relatively short duration reflecting the short average duration of the liabilities. Liquidity, interest rate and currency risks are maintained at a low level within risk appetite.

Annuity and other non-profit

All the investment risk is borne by shareholders. The annuity liabilities have a long duration but are also illiquid as customers cannot surrender their policies. The assets are chosen to provide stable income and cash flow. Currency and interest rate exposures are closely matched to the liabilities in line with risk appetite. We are able to invest part of the portfolio in less liquid assets in order to improve risk-adjusted returns given the illiquid nature of the liabilities. The asset portfolio is principally comprised of long maturity bonds and loans including a material book of commercial mortgage loans. The other non-profit business assets are a smaller proportion of this portfolio and are generally shorter in duration and have a high proportion invested in fixed income.

£13.9 billion of Shareholder loan assets are backing annuity liabilities in our UK Life business and comprise of commercial mortgage loans (£7.1 billion), Healthcare, Infrastructure and PFI mortgage loans (£3.4 billion) and Primary Healthcare, Infrastructure and PFI other loans (£3.4 billion). The Group carries a valuation allowance within the liabilities against the risk of default of commercial mortgages, including Healthcare and PFI mortgages, of £0.4 billion which equates to 40 bps at 31 December 2017 (2016: 50 bps).

Policyholder assets

These assets are invested in line with the fund choices made by our unit-linked policyholders and the investment risk is borne by the policyholder. This results in a high allocation to growth assets such as equity and property. Aviva's shareholder exposure to these assets arises from the fact that the income we receive is a proportion of the assets under management.

| Overview | Income & expenses | IFRS | Capital & liquidity | Analysis of assets | VNB & Sales analysis | Other information |
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|

8.i – Summary of assets continued

UK style with-profits (WP)

UK style with-profits funds hold relatively long-term contracts with policyholders participating in pooled investment performance subject to some minimum guarantees. Smoothed returns are used to declare bonuses to policyholders which increase the level of the guarantees through time. The part of the portfolio to which policyholder bonuses are linked is invested in line with their expectations and includes growth assets as well as fixed income. The remainder of the portfolio is invested to protect the funds from market movements and mitigate the resultant shareholder risk. This leads us to an overall investment portfolio that holds a higher proportion of growth assets than our other business lines although there are still material allocations to fixed income assets.

Continental European style participating funds

Continental European style participating funds hold relatively long-term contracts with policyholders participating in pooled investment performance subject to some minimum guarantees. Smoothed returns are used to declare bonuses to policyholders. A certain portion of the guarantees are subject to annual discretion declared at the start of the year. Other guarantees are subject to revision downwards at contractual dates. The investment portfolio holds a higher proportion of fixed income assets than the UK style equivalent. Fixed income assets also give rise to less volatility on the local statutory balance sheet than growth assets.

8.ii - Net asset value

At the end of 2017, IFRS net asset value per share was 423 pence (*2016: 414 pence*). The increase was driven by operating profit and profit on the disposal and remeasurement of subsidiaries, joint ventures and associates, partially offset by dividend payments to shareholders, amortisation and impairment of intangibles and acquired value of in-force business and adverse economic variances.

Total investment variances and economic assumption changes were £318 million adverse. This included £352 million adverse variances in the non-life business, primarily reflecting unfavourable short-term fluctuations due to foreign exchange losses and adverse market movements on Group centre holdings, including the centre hedging programme.

In the life businesses, investment variances and economic assumption changes were £34 million positive. The variance in 2017 is driven by positive variances in the UK, mainly due to economic modelling developments implemented in 2017, partially offset by negative variances in France which are primarily due to an increase in life annuity pension reserves (see A4 for further details).

On 25 May 2017 Aviva announced a share buy-back of ordinary shares for an aggregate purchase price of up to £300 million, which was carried out in full during the period from 25 May 2017 to 19 September 2017. The number of shares in issue has reduced by 58 million as at 31 December 2017 in respect of shares acquired and cancelled under the buy-back programme. Net of new shares issued during the period, the number of shares in issue reduced by 49 million.

| IFRS | 2017 £m | pence per share ² | 2016 £m | pence per share ² |
|---|------------|---------------------------------|------------|---------------------------------|
| Equity attributable to shareholders of Aviva plc at 1 January ¹ | 16,803 | 414p | 15,802 | 390p |
| Operating profit | 3,068 | 76p | 3,010 | 73p |
| Investment return variances and economic assumption changes on life and non-life business | (318) | (8)p | (381) | (9)p |
| Profit/(loss) on the disposal and remeasurements of subsidiaries, joint ventures and associates | 135 | 3р | (11) | _ |
| Goodwill impairment and amortisation of intangibles | (246) | (6)p | (175) | (4)p |
| Amortisation and impairment of acquired value of in-force business | (495) | (12)p | (540) | (13)p |
| Integration and restructuring costs | (141) | (3)p | (212) | (5)p |
| Other ³ | _ | _ | (498) | (13)p |
| Tax on operating profit and on other activities | (357) | (9)p | (334) | (8)p |
| Non-controlling interests | (149) | (4)p | (156) | (4)p |
| Profit after tax attributable to shareholders of Aviva plc | 1,497 | 37p | 703 | 17p |
| AFS securities fair value & other reserve movements | 7 | <u> </u> | 4 | _ |
| Ordinary dividends | (983) | (25)p | (871) | (22)p |
| Direct capital instrument and tier 1 notes interest and preference share dividend | (82) | (2)p | (85) | (2)p |
| Foreign exchange rate movements | 33 | 1p | 945 | 23p |
| Remeasurements of pension schemes | (2) | <u> </u> | 242 | 6p |
| Shares purchased in buy-back | (300) | (7)p | _ | _ |
| Other net equity movements ⁴ | (4) | 5p | 63 | 2р |
| Equity attributable to shareholders of Aviva plc at 31 December ¹ | 16,969 | 423p | 16,803 | 414p |

Excluding preference shares of £200 million (2016: £200 million).
 Number of shares as at 31 December 2017: 4.013 million (2016: 4.062 million).

3 Other items in 2016 include an exceptional charge of £475 million with a post tax impact of £380 million, relating to the impact of the change in the Ogden discount rate from 2.5% set in 2001 to minus 0.75% announced by the Lord Chancellor on 27 February 2017. Other items also include a loss upon the completion of an outwards reinsurance contract by the UK General Insurance business, which provides significant protection against claims volatility from mesothelioma, industrial deafness and other long tail risks. The £23 million loss comprises £107 million in premiums ceded, less £78 million in reinsurance recoverables recognised and £6 million claims

handling provisions released. 4 Other net equity movements per share include the effect of the reduction of the number of shares in issue by 57,724,500 in respect of shares acquired and cancelled under the share buy-back programme.

| Overview Income & expenses IFRS Capital & liquidity Analysis of assets VNB & Sales analysis | Other information |
|---|-------------------|
|---|-------------------|

8.iii - Return on equity¹

The return on equity calculation is based on operating return after tax attributable to ordinary shareholders expressed as a percentage of weighted average ordinary shareholders' equity.

During 2017, return on equity has increased to 13.2% (2016: 12.5%), mainly driven by the increase in operating profit net of taxation.

| | 2017 % | 2016 % |
|---|-----------|-----------|
| United Kingdom ² | 13.9% | 11.8% |
| Canada | 2.4% | 15.7% |
| Europe ² | 13.4% | 13.5% |
| Asia | 12.9% | 14.0% |
| Fund management | 25.7% | 24.4% |
| Corporate and Other Business | n/a | n/a |
| Return on total capital employed ³ | 9.8% | 9.7% |
| Subordinated debt | 4.3% | 4.5% |
| Senior debt | 0.2% | 0.1% |
| Return on total equity ³ | 12.6% | 12.1% |
| Less: Non-controlling interest | 10.1% | 11.5% |
| Direct capital instrument and tier 1 notes | 6.3% | 6.1% |
| Preference capital | 8.5% | 8.5% |
| Return on equity shareholders' funds | 13.2% | 12.5% |

Please refer to note C1 for further analysis of return on equity.
 Following the launch of UK Insurance which brings together UK Life, UK General Insurance and UK Health into a combined business, the Ireland Life and General Insurance businesses have been aligned to the new management structure and reported within Europe. As a result, comparative balances have been restated.
 This is an Alternative Performance Measure (APM) which provides useful information to enhance the understanding of financial performance. See the glossary for further details.

8.iv – Solvency II

The estimated pro forma shareholder cover ratio on a Solvency II basis is 198% at 31 December 2017. The Solvency II position disclosed is based on a 'shareholder view'. This excludes the contribution to Group Solvency Capital Requirement (SCR) and Group Own Funds of fully ring fenced with-profits funds (£3.3 billion at 31 December 2017) and staff pension schemes in surplus (£1.5 billion at 31 December 2017). These exclusions have no impact on Solvency II surplus. The most material fully ring fenced with-profit funds and staff pension schemes are self-supporting on a Solvency II capital basis with any surplus capital above SCR not recognised in the Group position. The shareholder view is therefore considered by management to be more representative of the shareholders' risk-exposure and the Group's ability to cover the SCR with eligible own funds.

The Solvency II risk margin is highly sensitive to movements in interest rates, which can be offset by a reset of the transitional measure on technical provisions ('TMTP'). The 31 December 2016 Solvency II position disclosed includes a notional reset of the TMTP to reflect interest rates at 31 December 2016. This presentation is in line with the Group's approach to manage its capital position assuming a dynamic TMTP in respect of the impact of interest rate movements on the risk margin, as this avoids step changes to the Solvency II position that arise only when the formal TMTP reset points are triggered. The estimated 31 December 2017 Solvency II position includes an estimated reset of the TMTP in line with the regulatory requirement to reset the TMTP every two years. This TMTP has also been amortised on a straightline basis over 16 years from 1 January 2016 in line with the Solvency II rules.

The 31 December 2017 Solvency II position disclosed includes two pro forma adjustments, to reflect known or highly likely events materially affecting the Group's solvency position post 31 December 2017. The adjustments consist of the disposals of Friends Provident International Limited and the Italian joint venture Avipop Assicurazioni S.p.A. These adjustments have been made in order to show a more representative view of the Group's solvency position.

The 31 December 2016 Solvency II Own Funds position includes the pro forma impacts of £0.1 billion in relation to the disposal of Aviva's 50% shareholding in Antarius to Sogecap, which completed on 5 April 2017, and a then anticipated future change to UK tax rules restricting the tax relief that could be claimed in respect of tax losses announced in the Chancellor of the Exchequer's Autumn statement of 23 November 2016, which has been removed in 2017 following a clarification in the 13 July 2017 Finance Bill.

Summary of Solvency II position

| | 2017 £bn | 2016 £bn |
|---|----------------|----------------|
| Own Funds ^{1,2,3} Solvency Capital Requirement ^{1,2,3,4} | 24.7 (12.5) | 24.0 (12.7) |
| Estimated Solvency II Surplus at 31 December ^{2,3} | 12.2 | 11.3 |
| Estimated Shareholder Cover Ratio ^{1,2,3} | 198% | 189% |
| | | (|

The estimated Solvency II position represents the shareholder view. This excludes the contribution to Group Solvency Capital Requirement (SCR) and Group Own Funds of fully ring fenced with-profits funds £3.3 billion (2016: £2.9 billion) and staff pension schemes in surplus £1.5 billion (2016: £1.1 billion) – these exclusions have no impact on Solvency II surplus.

The estimated Solvency II position includes the pro forma impacts of the disposals of Friends Provident International Limited (£0.1 billion increase to surplus) and the Italian joint venture Avipop Assicurazioni S.p.A (£0.1 billion ase to surplus)

3 The 31 December 2016 Solvency II position includes the pro forma impacts of the disposal of Aviva's 50% shareholding in Antarius to Sogecap, which completed on 5 April 2017 (£0.2 billion increase to surplus) and an anticipated future change to UK tax rules restricting the tax relief that can be claimed in respect of tax losses (£0.4 billion decrease to surplus). However, under the amended tax rules published on 13 July 2017, this restriction will not be material, and as a result no corresponding pro forma impact is included in the estimated 31 December 2017 Solvency II position. The 31 December 2016 Solvency II position also includes an adverse impact of a notional reset of the transitional measure on technical provisions ("TMTP") to reflect interest rates (£0.4 billion decrease to surplus).

The Solvency Capital Requirement above represents the Solvency Capital Requirement after the impact of diversification benefit

Movement in Group Solvency II Surplus

| | 2017 £bn | 2016 £bn |
|--|-------------|-------------|
| Group Solvency II Surplus at 1 January | 11.3 | 9.7 |
| Operating Capital Generation | 2.6 | 3.5 |
| Non-operating Capital Generation | (0.3) | (1.8) |
| Dividends | (1.1) | (1.0) |
| Share buy-back | (0.3) | — |
| Foreign exchange variances | 0.1 | 0.6 |
| Hybrid debt issuance/repayment | (0.5) | 0.4 |
| Acquired/divested business | 0.4 | (0.1) |
| Estimated Solvency II Surplus at 31 December | 12.2 | 11.3 |

The estimated Solvency II surplus at 31 December 2017 is £12.2 billion, with a shareholder cover ratio of 198%. This is an increase of £0.9 billion compared to the 31 December 2016 surplus. In 2017 the beneficial impacts of operating capital generation, disposals and foreign exchange variances have been partially offset by hybrid debt repayment, share buy-back and the impact of the Aviva plc dividend. The 2017 operating capital generation includes the beneficial impact of the transfer of the Friends Life business into the main UK life insurance fund. The beneficial impact from divested businesses in 2017 includes the disposal of the Spanish joint ventures Unicorp Vida and Caja Espana Vida and its retail life insurance business Aviva Vida y Pensiones. Also included are pro-forma impacts of the disposals of Friends Provident International Limited and the Italian joint venture Avivpop Assicurazioni S.p.A.

| Overview | Income & expenses | IFRS | Capital & liquidity | Analysis of assets | VNB & Sales analysis | Other information |
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|

8.iv - Solvency II continued

Summary of diversified Solvency Capital Requirement

| | 2017 £bn | 2016 £bn |
|-------------------------------------|-------------|-------------|
| Credit risk ¹ | 3.4 | 3.3 |
| Equity risk ² | 1.6 | 1.3 |
| Interest rate risk ³ | 0.4 | 0.4 |
| Other market risk ⁴ | 1.4 | 1.6 |
| Life insurance risk ⁵ | 2.8 | 3.3 |
| General insurance risk ⁶ | 0.7 | 0.6 |
| Operational risk | 1.1 | 1.1 |
| Other risk ⁷ | 1.1 | 1.1 |
| Total | 12.5 | 12.7 |

Capital held in respect of credit risk recognises the Group's shareholder exposure to changes in the market value of assets and defaults. A range of specific stresses are applied reflecting the difference in assumed risk relative 1 to investment grade and duration.

2 Capital held in respect of equity risk recognises the Group's shareholder exposure to changes in the market value of assets.

Capital held in respect of interest rate risk recognises the Group's shareholder exposure to changes in the value of net assets as a result of movements in interest rates. Capital held in respect of other market risk recognises the Group's shareholder exposure to changes in the market value of commercial mortgages and property, but also captures risk in association with inflation and foreign

- exchange
- 5

Capital held in respect of life insurance risk recognises the Group's shareholder exposure to life insurance specific risks, such as longevity and lapse. Capital held in respect of general insurance risk recognises the Group's shareholder exposure to general insurance specific risks, such as claims volatility and catastrophe. Capital held in respect of other risk recognises the Group's shareholder exposure to specific risks unique to particular business units and other items.

Equity risk increased over 2017 due to a combination of exposure changes and market movements. Other market risk decreased due to a model change to currency risk. Life insurance risk decreased as a result of longevity assumption changes in the UK and the impact of disposals.

Sensitivity analysis of Solvency II surplus

The following table shows the sensitivity of the Group's Solvency II surplus to:

Economic assumptions:

- 25 basis point increase and decrease, 50 basis point decrease and 100 basis point increase in the risk-free rate, including all consequential changes (including assumed investment returns for all asset classes, market values of fixed interest assets, risk discount rates):
- 50 basis point increase and decrease and 100 basis point increase in credit spreads for corporate bonds with credit rating A at 10 year duration, with the other ratings and durations stressed by the same proportion relative to the stressed capital requirement;
- an immediate full letter downgrade on 20% of the annuity portfolio bonds (e.g. from AAA to AA, from AA to A);
- 10% increase and decrease and 25% decrease in market values of equity assets.

Non-Economic assumptions:

- 10% increase in maintenance and investment expenses (a 10% sensitivity on a base expense assumption of £10 p.a. would represent an expense assumption of £11 p.a.);
- 10% increase in lapse rates (a 10% sensitivity on a base assumption of 5% p.a. would represent a lapse rate of 5.5% p.a.);
- 5% increase in both mortality and morbidity rates for life assurance;
- 5% decrease in mortality rates for annuity business;
- 5% increase in gross loss ratios for general insurance and health business.

| Overview | Income & expenses | IFRS | Capital & liquidity | Analysis of assets | VNB & Sales analysis | Other information |
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|
| | | | | | | |

8.iv – Solvency II continued

The sensitivity allows for any consequential impact on the assets and liability valuations. All other assumptions remain unchanged for each sensitivity, except where these are directly affected by the revised economic conditions or where a management action that is allowed for in the Solvency Capital Requirement calculation is applicable for that sensitivity. For example, future bonus rates are automatically adjusted to reflect sensitivity changes to future investment returns.

Transitional Measures on Technical Provisions is assumed to be recalculated in all sensitivities where its impact would be material. The table below shows the absolute change in cover ratio under each sensitivity, e.g. a 4% positive impact would result in a cover ratio of 202%.

| Sensitivities | | Impact on cover ratio % |
|-------------------------------------|---|-------------------------------|
| Changes in Economic assumptions | 25 bps increase in interest rate | 4% |
| <u> </u> | 100 bps increase in interest rate | 15% |
| | 25 bps decrease in interest rate | (6%) |
| | 50 bps decrease in interest rate | (12%) |
| | 50 bps increase in corporate bond spread | 1% |
| | 100 bps increase in corporate bond spread | (2%) |
| | 50 bps decrease in corporate bond spread | (1%) |
| | Credit downgrade on annuity portfolio | (4%) |
| | 10% increase in market value of equity | 2% |
| | 10% decrease in market value of equity | (2%) |
| | 25% decrease in market value of equity | (6%) |
| Changes in Non-Economic assumptions | 10% increase in maintenance and investment expenses | (6%) |
| 0 | 10% increase in lapse rates | (1%) |
| | 5% increase in mortality/morbidity rates – Life assurance | (1%) |
| | 5% decrease in mortality rates – annuity business | (11%) |
| | 5% increase in gross loss ratios | (3%) |

Limitations of sensitivity analysis

The table above demonstrates the effect of a change in a key assumption while other assumptions remain unchanged. In reality, there is a correlation between the assumptions and other factors. It should also be noted that these sensitivities are non-linear, and larger or smaller impacts should not be interpolated or extrapolated from these results.

The sensitivity analysis does not take into consideration that the Group's assets and liabilities are actively managed. Additionally, the Solvency II position of the Group may vary at the time that any actual market movement occurs. For example, the Group's financial risk management strategy aims to manage the exposure to market fluctuations.

As investment markets move past various trigger levels, management actions could include selling investments, changing investment portfolio allocations, adjusting bonuses credited to policyholders, and taking other protective action.

Other limitations in the above sensitivity analysis include the use of hypothetical market movements to demonstrate potential risk that only represent the Group's view of possible near-term market changes that cannot be predicted with any certainty, and the assumption that all interest rates move in an identical fashion.

Reconciliation of IFRS total equity to Solvency II Own Funds

The reconciliation from total Group equity on an IFRS basis to Solvency II Own Funds is presented below. The valuation differences reflect moving from IFRS valuations to a Solvency II shareholder view of Own Funds.

| | 2017 £bn | 2016 £bn |
|--|-------------|-------------|
| Total Group equity on an IFRS basis | 19.1 | 19.6 |
| Elimination of goodwill and other intangible assets ¹ | (9.8) | (10.0) |
| Liability valuation differences (net of transitional deductions) ² | 22.0 | 22.1 |
| Inclusion of risk margin (net of transitional deductions) | (3.3) | (4.4) |
| Net deferred tax ³ | (1.3) | (1.6) |
| Revaluation of subordinated liabilities | (0.7) | (0.9) |
| Estimated Solvency II Net Assets (gross of non-controlling interests) ⁴ | 26.0 | 24.8 |
| Difference between Solvency II Net Assets and Own Funds ⁵ | (1.3) | (0.8) |
| Estimated Solvency II Own Funds ^{6,7} | 24.7 | 24.0 |

Includes £1.9 billion (2016: £2.0 billion) of goodwill and £7.9 billion (2016: £8.0 billion) of other intangible assets comprising acquired value of in-force business of £3.3 billion (2016: £3.9 billion), deferred acquisition costs (net of 1

deferred income) of £2.9 billion (2016: £2.5 billion) and other intangibles uses f£1.5 billion). Includes the adjustments required to reflect market consistent principles under Solvency II whereby non-insurance assets and liabilities are measured using market value and liabilities arising from insurance contracts are valued on a best estimate basis using market-implied assumptions.

Value of a Dest estimate Dasis Using in a Keeping in the Augment of Section 2015 of the disposal of Aviva's 50% shareholding in Antarius to Sogecap, which completed on 5 April 2017 (£0.1 billion) and an anticipated future change to UK tax rules restricting the tax reflect of all other reconciling items in the table above which are shown gross of tax. The 31 December 2016 Solvency II position includes the proforma impacts of the disposal of Aviva's 50% shareholding in Antarius to Sogecap, which completed on 5 April 2017 (£0.1 billion) and an anticipated future change to UK tax rules restricting the tax relief that can be claimed in respect of tax losses (£0.1 billion). However, under the amended tax rules published on 13 July 2017, this restriction will not be material, and as a result no corresponding proforma impact is included in the estimated 31 December 2017 Solvency II position and averse impact of a notional reset of the transitional measure on technical provisions (TMTP') to reflect interest rates at 31 December 2016 50. Then proforma impact on Own Funds Solvency II position allo of Funds Provident International Limited and the Italian joint venture Avipop Assicurazioni Sp. Ain 2017 is 5nil.

Regulatory adjustments to bridge from Solvency II Net Assets to Own Funds include recognition of subordinated debt capital and non-controlling interests

The estimated Solvency II position represents the shareholder view. It excludes the contribution to Group SCR and Group Own Funds of fully ring-fenced with-profits funds £3.3 billion (2016: £2.9 billion) and staff pension schemes in surplus £1.5 billion (2016: £1.1 billion) – these exclusions have no impact on Solvency II surplus.

7 This is an Alternative Performance Measure (APM) which provides useful information to enhance the understanding of financial performance. See the glossary for further details IFRS

Financial supplement

| A B C D E | Income & expenses IFRS financial statements and notes Capital & liquidity Analysis of assets VNB & Sales analysis | Page 32 37 95 99 122 |
|-----------------------|---|-------------------------------------|
| In th | is section | |
| Α | Income & expenses | 32 |
| Reco | onciliation of Group adjusted operating profit to profit for | 32 |
| A1 | the year Other operations | 33 |
| A2 | Corporate centre | 33 |
| A3 | Group debt costs and other interest | 33 |
| A4 | Life business: Investment return variances and economic assumption changes | 34 |
| A5 | Non-life business: Short-term fluctuation in return on investments | 35 |
| A6 | General insurance and health business: Economic assumption changes | 36 |
| A7 | Impairment of goodwill, associates, joint ventures and other amounts expensed | 36 |
| A8 | Amortisation and impairment of acquired value of in-force business | e 36 |
| A9 | Profit/loss on the disposal and remeasurement of | 36 |
| A10 | subsidiaries, joint ventures and associates Other | 36 |

| Overview | Income & expenses | IFRS | Capital & liquidity | Analysis of assets | VNB & Sales analysis | Other information |
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|

Income & expenses

Reconciliation of Group adjusted operating profit to profit for the year For the year ended 31 December 2017

| | 2017 £m | 2016 £m |
|--|--------------|--------------|
| Group adjusted operating profit before tax attributable to shareholders' profits | | |
| Life business | 1 750 | 1 500 |
| United Kingdom ¹ Europe ¹ | 1,758 873 | 1,523 876 |
| Asia | 235 | 241 |
| Other | 16 | 2 |
| Total life business | 2,882 | 2,642 |
| General insurance and health | | |
| United Kingdom general insurance ¹ | 408 | 392 |
| United Kingdom health | 35 | 31 |
| Canada | 46 | 269 |
| Europe ¹ Asia | 223 (8) | 168 (13) |
| Other | (8) (4) | (13) |
| | 700 | 833 |
| Total general insurance and health | 700 | 633 |
| Fund management Aviva Investors | 168 | 139 |
| Asia | (4) | (1) |
| Total fund management | 164 | 138 |
| Other | | |
| Other operations (note A1) | (169) | (94) |
| Market operating profit | 3,577 | 3,519 |
| Corporate centre (note A2) | (184) | (184) |
| Group debt costs and other interest (note A3) | (325) | (325) |
| Group adjusted operating profit before tax attributable to shareholders' profits | 3,068 | 3,010 |
| Integration and restructuring costs | (141) | (212) |
| Group adjusted operating profit before tax attributable to shareholders' profits after integration and restructuring costs | 2,927 | 2,798 |
| Adjusted for the following: | | 070 |
| Investment return variances and economic assumption changes on long-term business (note A4) | 34 | 379 |
| Short-term fluctuation in return on investments backing non-long-term business (note A5) Economic assumption changes on general insurance and health business (note A6) | (345) | (518) |
| Impairment of goodwill, joint ventures and associates and other amounts expensed (note A7) | (7) (49) | (242) |
| Amortisation and impairment of intangibles | (197) | (175) |
| Amortisation and impairment of acquired value of in-force business (note A8) | (495) | (540) |
| Profit/(loss) on the disposal and remeasurement of subsidiaries, joint ventures and associates (note A9) | 135 | (11) |
| Other (note A10) | — | (498) |
| Adjusting items before tax | (924) | (1,605) |
| Profit before tax attributable to shareholders' profits | 2,003 | 1,193 |
| Tax on Group adjusted operating profit | (639) | (706) |
| Tax on other activities | 282 | 372 |
| Due fit fan de annou | (357) | (334) |
| Profit for the year | 1,646 | 859 |

1 Following the launch of UK Insurance which brings together UK Life, UK General Insurance and UK Health into a combined business, the Ireland Life and General Insurance businesses have been aligned to the new management structure and reported within Europe. As a result, comparatives have been restated.

| Overview | Income & expenses | IFRS | Capital & liquidity | Analysis of assets | VNB & Sales analysis | Other information |
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|

Incomes & expenses continued

Other Group operating profit items A1 – Other operations

| | 2017 £m | 2016 £m |
|--|------------|------------|
| United Kingdom ¹ Europe ¹ | (26) | 3 |
| Europe ¹ | (37) | (26) |
| Asia | (32) | (26) |
| Other Group operations ² | (74) | (45) |
| Total | (169) | (94) |

1 Following the launch of UK Insurance which brings together UK Life, UK General Insurance and UK Health into a combined business, the Ireland Life and General Insurance businesses have been aligned to the new

management structure and reported within Europe. As a result, comparative balances have been restated. 2 Other Group operations include Group and head office costs, expenditure on UK digital business and non-insurance operating profit relating to Aviva Re.

Other operations relate to non-insurance activities and include costs associated with our Group and regional head offices, pension scheme expenses, as well as non-insurance income. Total costs in relation to non-insurance activities were £169 million (2016: £94 million).

'Other Group operations' includes increased investment in the development of the UK digital business, partly offset by income relating to insurance recoveries of £32 million (2016: £19 million).

A2 – Corporate centre

| | 2017 £m | 2016 £m |
|--|---------------|---------------|
| Project spend Central spend and share award costs | (29) (155) | (30) (154) |
| Total | (184) | (184) |

A3 – Group debt costs and other interest

| | 2017 £m | 2016 £m |
|--|------------|------------|
| External debt | | |
| Subordinated debt | (391) | (387) |
| Other | (2) | (1) |
| Total external debt | (393) | (388) |
| Internal lending arrangements | (7) | (23) |
| Net finance income on main UK pension scheme | 75 | 86 |
| Total | (325) | (325) |

| Overview Income & expenses | |
|----------------------------|--|
|----------------------------|--|

Incomes & expenses continued

Non-operating profit items

A4 – Life Business: Investment variances and economic assumption changes

IFRS

(a) Definitions

Group adjusted operating profit for life business is based on expected investment returns on financial investments backing shareholder and policyholder funds over the period, with consistent allowance for the corresponding expected movements in liabilities. Group adjusted operating profit includes the effect of variance in experience for non-economic items, such as mortality, persistency and expenses, and the effect of changes in non-economic assumptions, where not treated as other items. Changes due to economic items, such as market value movements and interest rate changes, which give rise to variances between actual and expected investment returns, and the impact of changes in economic assumptions on liabilities, are disclosed separately outside Group adjusted operating profit.

(b) Economic volatility

The investment variances and economic assumption changes excluded from the life Group adjusted operating profit are as follows:

| Life business | 2017 £m | 2016 £m |
|--|------------|------------|
| Investment variances and economic assumption changes | 34 | 379 |

Investment variances and economic assumption changes were £34 million positive (2016: £379 million positive). The variance in 2017 is driven by positive variances in the UK, which are partially offset by negative variances in France.

Positive variances in the UK are mainly due to economic modelling developments implemented in 2017. These include a one-off development to align the approach to calculating the valuation interest rate across the heritage Aviva and Friends Life portfolios and also a development to the approach to calculating the valuation interest rate for certain deferred annuity business. Positive variances also reflect fewer than expected defaults and downgrades on corporate bonds, better than expected experience on equity release mortgages (in terms of losses related to no negative equity guarantees) and a reduction in the default allowances for commercial mortgages.

The negative variance in France is primarily due to an increase in life annuity pension reserves, resulting from a reduction to the discount rate cap used in the calculation of these reserves. This economic assumption change reflects the current environment of prolonged low interest rates. A further negative variance stems from losses realised in 2017 on derivative-based funds.

During 2017 the Group has kept its long-term assumptions for future property prices and rental income under review to allow for the possible future adverse impact of the decision for the UK to leave the European Union. The aim has been to maintain the same allowance in these assumptions in 2017 as was included in 2016, as the impact of the Brexit process on the UK economy remains uncertain.

In 2016, investment variances and economic assumption changes were £379 million positive. Positive variances in the UK reflected lower interest rates and narrowing credit spreads, which increased asset values more than liabilities. In the first half of 2016 the Group revised its expectation of future property prices and rental income in light of the UK referendum vote for the UK to leave the European Union. The adverse impact of this adjustment on the Group's equity release and commercial mortgage portfolios was broadly offset in the second half of the year as expectations for future property price and rental growth increased. In addition, in the UK the investment variance reflected a refined approach of assuming best estimate expected credit defaults on corporate bonds, with a resulting increase in Group adjusted operating profit in the period. The positive variance in the UK was partially offset by negative variances in France and Italy. The negative variance in France reflected losses on equity hedges managed on an economic basis rather than an IFRS basis and falling interest rates, while the negative variance in Italy reflected widening credit spreads.

(c) Assumptions

The expected rate of investment return is determined using consistent assumptions at the start of the period between operations, having regard to local economic and market forecasts of investment return and asset classification under IFRS.

The principal assumptions underlying the calculation of the expected investment return for equities and properties are:

| | | Equities | | Properties |
|----------------|------|----------|------|------------|
| | 2017 | 2016 | 2017 | 2016 |
| | % | % | % | % |
| United Kingdom | 4.8% | 5.5% | 3.3% | 4.0% |
| Eurozone | 4.2% | 4.5% | 2.7% | 3.0% |

The expected return on equities and properties has been calculated by reference to the 10 year mid-price swap rate for an AA-rated bank in the relevant currency plus a risk premium. The use of risk premium reflects management's long-term expectations of asset return in excess of the swap yield from investing in different asset classes. The asset risk premiums are set out in the table below:

| All territories | 2017 % | 2016 % |
|-----------------------|-----------|-----------|
| Equity risk premium | 3.5% | 3.5% |
| Property risk premium | 2.0% | 2.0% |

The 10 year mid-price swap rates as at the start of the period are set out in the table below:

| Territories | 2017 % | 2016 % |
|----------------|-----------|-----------|
| United Kingdom | 1.3% | 2.0% |
| Eurozone | 0.7% | 1.0% |

Incomes & expenses continued

A4 - Life Business: Investment variances and economic assumption changes continued

For fixed interest securities classified as fair value through profit or loss, the expected investment returns are based on average prospective yields for the actual assets held less an adjustment for credit risk (assessed on a best estimate basis); this includes an adjustment for credit risk on all eurozone sovereign debt. Where such securities are classified as available for sale, the expected investment return comprises the expected interest or dividend payments and amortisation of the premium or discount at purchase.

A5 - Non-life General insurance and health business: Short-term fluctuation in return on investments

| | 2017 | 2016 |
|---|-------|-------|
| | £m | £m |
| Analysis of investment income: | | |
| – Net investment income | 331 | 383 |
| Foreign exchange gains/losses and other charges | (24) | (35) |
| | 307 | 348 |
| Analysed between: | | |
| Longer-term investment return, reported within operating profit | 364 | 343 |
| - Short-term fluctuations in investment return, reported outside operating profit | (57) | 5 |
| | 307 | 348 |
| Short-term fluctuations: | | |
| - General insurance and health | (57) | 5 |
| – Other operations ¹ | (288) | (523) |
| Total short-term fluctuations | (345) | (518) |

1 Represents short-term fluctuation on assets backing non-life business in Group centre investments, including the centre hedging programme.

The longer-term investment return is calculated separately for each principal non-life business unit. In respect of equities and properties, the return is calculated by multiplying the opening market value of the investments, adjusted for sales and purchases during the year, by the longer-term rate of investment return. The longer-term rate of investment return is determined using consistent assumptions between operations, having regard to local economic and market forecasts of investment return. The allocated longer-term return for other investments is the actual income receivable for the year. Actual income and longer-term investment return both contain the amortisation of the discounts/premium arising on the acquisition of fixed income securities.

Market value movements which give rise to variances between actual and longer-term investment returns are disclosed separately in short-term fluctuations outside operating profit.

The impact of realised and unrealised gains and losses on Group centre investments, including the centre hedging programme which is designed to economically protect the total Group's capital against adverse equity and foreign exchange movements, is included in short-term fluctuations on other operations.

The adverse short-term fluctuations during 2017 are mainly due to foreign exchange losses and adverse market movements on Group centre holdings, including the centre hedging programme.

Total assets supporting the general insurance and health business, which contribute towards the longer-term return, are:

| | 2017 £m | 2016 £m |
|---|------------|------------|
| Debt securities | 10,054 | 10,799 |
| Equity securities | 772 | 267 |
| Properties | 499 | 341 |
| Cash and cash equivalents | 1,115 | 1,162 |
| Other ¹ | 2,498 | 2,032 |
| Assets supporting general insurance and health business | 14,938 | 14,601 |
| Assets supporting other non-long term-business ² | 685 | 724 |
| Total assets supporting non-long term-business | 15,623 | 15,325 |

1 Includes the internal loan to Group from UKI.

2 Represents assets backing non-life business in Group centre investments, including the centre hedging programme.

The principal assumptions underlying the calculation of the longer-term investment return are:

| | Longer-term rates of return on equities | | Longer-term rates of return on property | | |
|----------------|--|------|--|--|--|
| | 2017 2016 | 2017 | 2016 | | |
| | % % | % | % | | |
| United Kingdom | 4.8% 5.5% | 3.3% | 4.0% | | |
| Eurozone | 4.2%4.5%5.5%5.4% | 2.7% | 3.0% | | |
| Canada | | 4.0% | 3.9% | | |

The longer-term rates of return on equities and properties have been calculated by reference to the 10 year mid-price swap rate for an AArated bank in the relevant currency plus a risk premium. The underlying reference rates and risk premiums are shown in note A4(c). Overview Incor

Income & expenses

(

Capital & liquidity

Incomes & expenses continued

A6 – General insurance and health business: Economic assumption changes

IFRS

In the general insurance and health business, an adverse impact of £7 million (2016: £242 million adverse) mainly arises as a result of a slight decrease in the estimated future inflation rate used to value periodic payment orders offset by a slight decrease in the interest rates used to discount claim reserves for periodic payment orders and latent claims. During 2016 market interest rates used to discount periodic payment orders and latent claims reduced and the estimated future inflation rate used to value periodic payment orders was increased to be consistent with market expectations. This was, in part, offset by a change in estimate for the interest rate used to discount periodic payment orders to allow for the illiquid nature of these liabilities.

A7 - Impairment of goodwill, joint ventures, associates and other amounts expensed

Impairment of goodwill, associates and joint ventures expensed in the period comprised of £2 million in respect of an impairment of goodwill at Elite Insurance Company of Canada and £47 million in respect of the full impairment of goodwill in our investment in associate Aviva India (2016: £nil).

A8 – Amortisation and impairment of acquired value of in-force business

Amortisation and impairment of acquired value of in-force business ('AVIF') in the year is a charge of £495 million (*2016: £540 million charge*). The charge for the year includes £469 million of amortisation in respect of the Group's subsidiaries and joint-ventures and impairment charges of £26 million in relation to the FPI's reinsured book of business and Aviva India.

A9 – Profit/loss on the disposal and remeasurement of subsidiaries, joint ventures and associates

The total Group profit on disposal and remeasurement of subsidiaries, joint ventures and associates is £135 million (*2016: £11 million loss*). This consists of £23 million of remeasurement gains in respect of the joint venture operations in Poland and Aviva Vietnam; £237 million profit on the disposals of Antarius, France health, three businesses in Spain and other small operations; offset by £125 million of remeasurement losses in relation to FPI and Taiwan. Further details are provided in note B4.

A10 – Other

Other items are those items that, in the directors' view, are required to be separately disclosed by virtue of their nature or incidence to enable a full understanding of the Group's financial performance. There were no other items during 2017 (2016: £498 million).

IFRS financial statements

IFRS

| In this se | ction lated financial statements | Page |
|--|---|--|
| Consolid Consolid Consolid Consolid | ated income statement ated statement of comprehensive income ated statement of changes in equity ated statement of financial position ated statement of cash flows | 38 39 40 41 42 |
| Notes to B1(i) B1(ii) | the consolidated financial statements Basis of preparation New standards, interpretations and amendments to published standards that have been adopted by the Group | 43 43 |
| B2 B3 B4 B5 B6 B7 B8 B9 B10 B11 B12 | Prior period adjustments Exchange rates Subsidiaries Segmental information Tax Earnings per share Dividends and appropriations Insurance liabilities Liability for investment contracts Reinsurance assets Effects of changes in assumptions and estimates during the year | 44 45 48 56 58 59 60 70 72 74 |
| B13 B14 B15 B16 B17 B18 B19 B20 B21 B22 | Unallocated divisible surplus Borrowings Pension obligations Related party transactions Risk management - framework Direct capital instrument and tier 1 notes Cash and cash equivalents Contingent liabilities and other risk factors Acquired value of in-force business and intangibles Subsequent events | 75 76 77 79 92 93 93 93 94 94 |

Aviva plc Preliminary announcement 2017

| Overview | Income & expenses | IFRS | Capital & liquidity | Analysis of assets | VNB & Sales analysis | Other information |
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|
| | | | | | | |

Consolidated financial statements

Consolidated income statement For the year ended 31 December 2017

| | Note | 2017 £m | 2016 £m |
|--|--------------------|---|---|
| Income Gross written premiums Premiums ceded to reinsurers | | 27,606 (2,229) | 25,442 (2,364) |
| Premiums written net of reinsurance Net change in provision for unearned premiums | | 25,377 (153) | 23,078 (210) |
| Net earned premiums Fee and commission income Net investment income Share of profit after tax of joint ventures and associates Profit/(loss) on the disposal and remeasurement of subsidiaries, joint ventures and associates | | 25,224 2,187 22,066 41 135 | 22,868 1,962 30,257 216 (11) |
| | | 49,653 | 55,292 |
| Expenses Claims and benefits paid, net of recoveries from reinsurers Change in insurance liabilities, net of reinsurance Change in investment contract provisions Change in unallocated divisible surplus Fee and commission expense Other expenses Finance costs | B9 (a) (ii) B13 | (24,113) (1,074) (13,837) 294 (4,329) (3,537) (683) | (23,782) (6,893) (14,039) (381) (3,885) (3,853) (626) |
| | | (47,279) | (53,459) |
| Profit before tax | | 2,374 | 1,833 |
| Tax attributable to policyholders' returns | B6 | (371) | (640) |
| Profit before tax attributable to shareholders' profits | | 2,003 | 1,193 |
| Tax expense Less: tax attributable to policyholders' returns Tax attributable to shareholders' profits | B6 B6 B6 | (728) 371 (357) | (974) 640 (334) |
| Profit for the year | | 1,646 | 859 |
| Attributable to: Equity holders of Aviva plc Non-controlling interests | | 1,497 149 | 703 |
| Profit for the year | | 1,646 | 859 |
| Earnings per share Basic (pence per share) Diluted (pence per share) | Β7 | 35.0p 34.6p | 15.3p 15.1p |

| Overview | Income & expenses | IFRS | Capital & liquidity | Analysis of assets | VNB & Sales analysis | Other information |
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|

Consolidated statement of comprehensive income For the year ended 31 December 2017

| | Note | 2017 £m | 2016 £m |
|--|------|------------|---------------|
| Profit for the year | | 1,646 | 859 |
| Other comprehensive income: | | | |
| Items that may be reclassified subsequently to income statement | | | |
| Investments classified as available for sale | | | |
| Fair value (losses)/gains | | (7) | 12 |
| Fair value gains transferred to profit on disposals | | (2) | (2) |
| Share of other comprehensive income of joint ventures and associates | | 6 | (6) |
| Foreign exchange rate movements | | 68 5 | 1,128 (34) |
| Aggregate tax effect – shareholder tax on items that may be reclassified subsequently to income statement | | 5 | (34) |
| Items that will not be reclassified to income statement | | | |
| Owner-occupied properties – fair value (losses)/gains | | (1) | 4 |
| Remeasurements of pension schemes | B15 | (5) | 311 |
| Aggregate tax effect – shareholder tax on items that will not be reclassified subsequently to income statement | | 5 | (70) |
| Total other comprehensive income, net of tax | | 69 | 1,343 |
| Total comprehensive income for the year | | 1,715 | 2,202 |
| | | | |
| Attributable to: | | | |
| Equity holders of Aviva plc | | 1,523 | 1,901 |
| Non-controlling interests | | 192 | 301 |
| | | 1,715 | 2,202 |

Consolidated statement of changes in equity

For the year ended 31 December 2017

| | Ordinary share capital £m | Preference share capital £m | Capital reserves ¹ £m | Treasury shares £m | Currency translation reserve £m | Other reserves £m | Retained earnings £m | DCI and tier 1 notes £m | Total equity excluding non- controlling interest £m | Non- controlling interests £m | Total equity £m |
|--|------------------------------------|--------------------------------------|--|--------------------------|--|-------------------------|----------------------------|-------------------------------|--|--|-----------------------|
| Balance at 1 January | 1,015 | 200 | 10,171 | (15) | 1,146 | (349) | 4,835 | 1,123 | 18,126 | 1,425 | 19,551 |
| Profit for the year | _ | _ | _ | | _ | _ | 1,497 | _ | 1,497 | 149 | 1,646 |
| Other comprehensive income | _ | _ | _ | _ | 121 | (93) | (2) | _ | 26 | 43 | 69 |
| Total comprehensive income for the year | _ | _ | _ | | 121 | (93) | 1,495 | _ | 1,523 | 192 | 1,715 |
| Owner-occupied properties fair value gains | | | | | | | | | | | |
| transferred to retained earnings on disposals | _ | _ | _ | _ | _ | (2) | 2 | _ | _ | _ | _ |
| Dividends and appropriations | _ | _ | _ | _ | _ | _ | (1,081) | _ | (1,081) | _ | (1,081) |
| Non-controlling interests share of dividends | | | | | | | | | | | |
| declared in the year | — | _ | _ | _ | _ | — | — | — | — | (103) | (103) |
| Transfer to profit on disposal of subsidiaries, joint ventures and associates Capital contributions from non-controlling | _ | _ | _ | _ | (126) | 137 | 1 | _ | 12 | _ | 12 |
| interests | | | | | | | | | | 36 | 36 |
| Changes in non-controlling interests in | _ | _ | _ | _ | _ | _ | _ | _ | _ | 30 | 30 |
| subsidiaries | _ | _ | _ | _ | _ | _ | _ | _ | _ | (315) | (315) |
| Treasury shares held by subsidiary companies | _ | _ | _ | 1 | _ | _ | _ | _ | 1 | (313) | (313) |
| Reserves credit for equity compensation plans | _ | _ | _ | _ | _ | 77 | _ | _ | 77 | _ | 77 |
| Shares issued under equity compensation plans | 2 | _ | 10 | _ | _ | (44) | 42 | _ | 10 | _ | 10 |
| Shares purchased in buy-back | (14) | _ | 14 | _ | _ | (, | (300) | _ | (300) | _ | (300) |
| Reclassification of tier 1 notes to financial | (- 1) | | - · | | | | (000) | | (000) | | (223) |
| liabilities ² | _ | _ | _ | _ | _ | _ | (92) | (392) | (484) | _ | (484) |
| Aggregate tax effect – shareholder tax | _ | _ | _ | _ | _ | _ | 16 | (00 <u> </u> | 16 | _ | 16 |
| Balance at 31 December | 1,003 | 200 | 10,195 | (14) | 1,141 | (274) | 4,918 | 731 | 17,900 | 1,235 | 19,135 |

Capital reserves consist of share premium of £1,207 million, a capital redemption reserve of £14 million arising as a result of the shares purchased in buy-back and a merger reserve of £8,974 million. See note B7 for further details of the shares purchased in buy-back.
 On 28 September 2017, notification was given that the Group would redeem the \$650 million fixed rate tier 1 notes. At that date, the instrument was reclassified as a financial liability of £484 million, representing its fair value on translation into sterling on that date. The resulting foreign exchange loss of £92 million has been charged to retained earnings. See note B18 for further details.

For the year ended 31 December 2016

| | | | | | Currency | | | | Total equity excluding non- | Non- | |
|--|---------------------------------|-----------------------------------|--|--------------------------|------------------------------|-------------------------|------------------------------|------------------------------|-----------------------------------|--------------------------------|-----------------------|
| | Ordinary share capital £m | Preference share capital £m | Capital reserves ¹ £m | Treasury shares £m | translation reserve £m | Other reserves £m | Retained D earnings £m | Cl and tier 1 notes £m | controlling interest £m | controlling interests £m | Total equity £m |
| Balance at 1 January | 1,012 | 200 | 10,159 | (29) | 165 | (279) | 4,774 | 1,123 | 17,125 | 1,145 | 18,270 |
| Profit for the year | — | _ | _ | _ | _ | _ | 703 | _ | 703 | 156 | 859 |
| Other comprehensive income | — | — | _ | _ | 988 | (32) | 242 | — | 1,198 | 145 | 1,343 |
| Total comprehensive income for the year | _ | _ | _ | _ | 988 | (32) | 945 | _ | 1,901 | 301 | 2,202 |
| Owner-occupied properties fair value gains | | | | | | | | | | | |
| transferred to retained earnings on disposals | _ | — | _ | — | _ | (46) | 46 | — | — | — | — |
| Dividends and appropriations | — | — | — | — | — | — | (973) | — | (973) | — | (973) |
| Non-controlling interests share of dividends declared in the year | _ | _ | _ | _ | _ | _ | _ | _ | _ | (135) | (135) |
| Transfer to profit on disposal of subsidiaries, joint ventures and associates | | | | | (7) | | | | (7) | | (7) |
| Capital contributions from non-controlling | _ | _ | _ | _ | (1) | _ | _ | _ | (1) | _ | (1) |
| interests | _ | _ | _ | _ | _ | _ | _ | _ | _ | 9 | 9 |
| Changes in non-controlling interests in | | | | | | | | | | 105 | 105 |
| subsidiaries | _ | _ | _ | 10 | _ | _ | _ | _ | - 10 | 105 | 105 |
| Treasury shares held by subsidiary companies | _ | _ | _ | 13 | _ | | _ | _ | 13 | _ | 13 |
| Reserves credit for equity compensation plans | | _ | 10 | - 1 | _ | 38 | - | _ | 38 | _ | 38 |
| Shares issued under equity compensation plans | 3 | _ | 12 | 1 | _ | (30) | 26 | _ | 12 | _ | 12 |
| Aggregate tax effect – shareholder tax | | | | | | | 17 | _ | 17 | | 17 |
| Balance at 31 December | 1,015 | 200 | 10,171 | (15) | 1,146 | (349) | 4,835 | 1,123 | 18,126 | 1,425 | 19,551 |

1 Capital reserves consists of share premium of £1,197 million and a merger reserve of £8,974 million.

| Overview Income & expenses IFRS Capital & liquidity Analysis of assets VNB & Sales analysis | s Other information |
|---|---------------------|
|---|---------------------|

Consolidated statement of financial position As at 31 December 2017

| | Note | 2017 £m | 2016 £m |
|--|------|------------|------------|
| Assets | | | |
| Goodwill | | 1,876 | 2,045 |
| Acquired value of in-force business and intangible assets | B21 | 3,455 | 5,468 |
| Interests in, and loans to, joint ventures | | 1,221 | 1,604 |
| Interests in, and loans to, associates | | 421 | 481 |
| Property and equipment | | 509 | 487 |
| Investment property | | 10,797 | 10,768 |
| Loans | | 27,857 | 24,784 |
| Financial investments | | 311,082 | 299,835 |
| Reinsurance assets | B11 | 13,492 | 26,343 |
| Deferred tax assets | | 144 | 180 |
| Current tax assets | | 94 | 119 |
| Receivables | | 8,285 | 7,794 |
| Deferred acquisition costs, pension surpluses and other assets | | 6,374 | 5,893 |
| Prepayments and accrued income | | 2,860 | 2,882 |
| Cash and cash equivalents | | 43,347 | 38,708 |
| Assets of operations classified as held for sale | B4 | 10,871 | 13,028 |
| Total assets | | 442,685 | 440,419 |
| Equity | | | |
| Capital | | | |
| Ordinary share capital | | 1,003 | 1,015 |
| Preference share capital | | 200 | 200 |
| | | 1,203 | 1,215 |
| Capital reserves | | - | ŕ |

| Capital reserves | | , |
|---|---------|---------|
| Share premium | 1,207 | 1,197 |
| Capital redemption reserve | 14 | — |
| Merger reserve | 8,974 | 8,974 |
| | 10,195 | 10,171 |
| Treasury shares | (14) | (15) |
| Currency translation reserve | 1,141 | 1,146 |
| Other reserves | (274) | (349) |
| Retained earnings | 4,918 | 4,835 |
| Equity attributable to shareholders of Aviva plc | 17,169 | 17,003 |
| Direct capital instrument and tier 1 notes | 731 | 1,123 |
| Equity excluding non-controlling interests | 17,900 | 18,126 |
| Non-controlling interests | 1,235 | 1,425 |
| Total equity | 19,135 | 19,551 |
| Liabilities | | |
| Gross insurance liabilities B9 | 148,650 | 151,183 |
| Gross liabilities for investment contracts B10 | 203,986 | 197,095 |
| Unallocated divisible surplus B13 | 9,082 | 9,349 |
| Net asset value attributable to unitholders | 18,327 | 15,638 |
| Pension deficits and other provisions | 1,429 | 1,510 |
| Deferred tax liabilities | 2,377 | 2,413 |
| Current tax liabilities | 290 | 421 |
| Borrowings B14 | 10,286 | 10,295 |
| Payables and other financial liabilities | 16,459 | 17,751 |
| Other liabilities | 2,791 | 2,719 |
| Liabilities of operations classified as held for sale | 9,873 | 12,494 |
| Total liabilities | 423,550 | 420,868 |
| Total equity and liabilities | 442,685 | 440,419 |

| Overview | Income & expenses | IFRS | Capital & liquidity | Analysis of assets | VNB & Sales analysis | Other information |
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|

Consolidated statement of cash flows

For the year ended 31 December 2017

The cash flows presented in this statement cover all the Group's activities and include flows from both policyholder and shareholder activities. All cash and cash equivalents are available for use by the Group.

| | 2017 £m | 2016 £m |
|---|--|--|
| Cash flows from operating activities ¹ Cash generated from operating activities Tax paid | 8,361 (620) | 5,394 (647) |
| Total net cash from operating activities | 7,741 | 4,747 |
| Cash flows from investing activities Acquisitions of, and additions to, subsidiaries, joint ventures and associates, net of cash acquired Disposals of subsidiaries, joint ventures and associates, net of cash transferred New loans to joint ventures and associates Repayment of loans to joint ventures and associates Net repayment of loans to joint ventures and associates Purchases of property and equipment | 25 (49) — — (69) | (432) 42 (3) 97 94 (67) 75 |
| Proceeds on sale of property and equipment Purchases of intangible assets | 5 (107) | 75 (119) |
| Total net cash (used in)/from investing activities | (195) | (407) |
| Cash flows from financing activities Proceeds from issue of ordinary shares Shares purchased in buy-back Treasury shares distributed from employee trusts New borrowings drawn down, net of expenses Repayment of borrowings ² Net (repayment)/drawdown of borrowings Interest paid on borrowings Preference dividends paid Ordinary dividends paid Coupon payments on direct capital instrument and tier 1 notes Capital contributions from non-controlling interests of subsidiaries Dividends paid to non-controlling interests of subsidiaries Changes in controlling interest in subsidiaries | $ \begin{array}{r} 12\\(300)\\-\\-\\1,320\\(1,904)\\(584)\\(610)\\(17)\\(983)\\(81)\\36\\(103)\\-\\-\\(2,630)\end{array} $ | 15 — 3,526 (2,340) 1,186 (595) (17) (871) (871) (871) (871) 9 (135) 105 |
| Total net cash (used in)/from financing activities | (2,630) | (388) |
| Total net increase in cash and cash equivalents Cash and cash equivalents at 1 January Effect of exchange rate changes on cash and cash equivalents | 4,916 38,405 266 | 3,952 33,170 1,283 |
| Cash and cash equivalents at 31 December | 43,587 | 38,405 |

Cash flows from operating activities include interest received of £5,302 million (2016: £5,642 million) and dividends received of £2,606 million (2016: £2,536 million).
 Includes redemption of 8.25% US \$650 million fixed rate tier 1 notes of £488 million.

IFRS

Notes to the consolidated financial statements

B1(i) Basis of preparation

(a) The results in this preliminary announcement have been taken from the Group's 2017 Annual report and accounts which will be available on the Company's website on 27 March 2018. The consolidated financial statements have been prepared and approved by the directors in accordance with International Financial Reporting Standards (IFRS) as endorsed by the European Union (EU), and those parts of the Companies Act 2006 applicable to those reporting under IFRS.

The basis of preparation and summary of accounting policies applicable to the Group's consolidated financial statements can be found in the Accounting policies section of the 2017 Annual report and accounts. The comparative figures have been restated for the adjustments detailed in note B2. In addition, the Group has adopted new amendments to published standards as described in B1(ii), however these had no effect on reported profit or loss or equity, the statement of financial position or the statement of cash flows.

The preliminary announcement for the year ended 31 December 2017 does not constitute statutory accounts as defined in Section 434 of the Companies Act 2006. The results on an IFRS basis for full year 2017 and 2016 have been audited by PricewaterhouseCoopers LLP (PwC). PwC have reported on the 2017 and 2016 consolidated financial statements. Both reports were unqualified and neither contained a statement under section 498 (2) or (3) of the Companies Act 2006. The Group's 2016 report and accounts have been filed with the Registrar of Companies.

After making enquiries, the Directors have a reasonable expectation that the Group as a whole has adequate resources to continue in operational existence over a period of at least 12 months from the date of approval of the financial statements. For this reason, they continue to adopt the going concern basis in preparing the financial statements.

(b) Items included in the financial statements of each of the Group's entities are measured in the currency of the primary economic environment in which that entity operates (the functional currency). The consolidated financial statements are stated in pounds sterling, which is the Company's functional and presentational currency. Unless otherwise noted, the amounts shown in these financial statements are in millions of pounds sterling (£m).

(c) The long-term nature of much of the Group's operations means that, for management's decision-making and internal performance management of our operating segments, the Group focuses on Group adjusted operating profit, a non-GAAP alternative performance measure (APM), that incorporates an expected return on investments supporting its long-term and non-long-term businesses. Group adjusted operating profit for long-term business is based on expected investment returns on financial investments backing shareholder and policyholder funds over the reporting period, with allowance for the corresponding expected movements in liabilities. Variances between actual and expected investment returns, and the impact of changes in economic assumptions on liabilities, are disclosed separately outside operating profit. For non-long-term business, the total investment income, including realised and unrealised gains, is analysed between that calculated using a longer-term return and short-term fluctuations from that level. The exclusion of short-term realised and unrealised investment gains and losses from the Group adjusted operating profit APM reflects the long-term nature of much of our business and presents separately the operating profit APM which is used in managing the performance of our operating segments from the impact of economic factors.

Group adjusted operating profit also excludes impairment of goodwill, associates and joint ventures; amortisation and impairment of other intangibles; amortisation and impairment of acquired value of in-force business; and the profit or loss on disposal and remeasurement of subsidiaries, joint ventures and associates. These items principally relate to mergers and acquisition activity which we view as strategic in nature, hence they are excluded from the operating profit APM as this is principally used to manage the performance of our operating segments when reporting to the Group's chief decision maker. Other items are those items that, in the Directors' view, are required to be separately disclosed by virtue of their nature or incidence to enable a full understanding of the Group's financial performance. Details of these items, including an explanation of the rationale for their exclusion, are provided in the relevant notes.

The Group adjusted operating profit APM should be viewed as complementary to IFRS GAAP measures. It is important to consider Group adjusted operating profit and profit before tax together to understand the performance of the business in the period.

B1(ii) New standards, interpretations and amendments to published standards that have been adopted by the Group

The Group has adopted the following amendments to standards which became effective for the annual reporting period beginning on 1 January 2017.

(i) Narrow scope amendments to IAS 12 - Recognition of Deferred Tax Assets for Unrealised Losses

The revisions to IAS 12 *Income Taxes* clarify the accounting for deferred tax assets on unrealised losses and state that deferred tax assets should be recognised when an asset is measured at fair value and that fair value is below the asset's tax base. It also provides further clarification on the estimation of probable future taxable profits that may support the recognition of deferred tax assets. The adoption of this amendment does not have an impact on the Group's consolidated financial statements as the clarifications are consistent with our existing interpretation.

(ii) Amendments to IAS 7 – Disclosure Initiative

The amendments to IAS 7 *Statement of Cash Flows*, which form part of the IASB's Disclosure Initiative, require disclosure of the movements in liabilities arising from financing activities with cash and non-cash changes presented separately. The adoption of this amendment does not have an impact on the Group's consolidated financial statements as the Group already voluntarily discloses this information.

(iii) Amendments to IFRS 12: Disclosure of Interests in Other Entities

The amendments to IFRS 12, which form part of the IASB's annual improvements process for the 2014-2016 cycle, clarify existing guidance. The adoption of these amendments does not have an impact on the Group's consolidated financial statements as the clarifications are consistent with our existing interpretation.

B2 – Prior period adjustments

During 2017, following the launch of UK Insurance which brings together the UK Life, UK General Insurance and UK Health businesses, the Ireland Life and General Insurance businesses have been aligned to the new management structure and reported within Europe. The UK Insurance business continues to be dealt with as two businesses, UK Life and UK General Insurance & Health, under the overall leadership of Andy Briggs, CEO of UK Insurance. The Ireland Life and General Insurance businesses are now part of the European operations under the overall leadership of Maurice Tulloch, CEO of International Insurance. As a result of this change, comparative information in the Reconciliation of Group adjusted operating profit to profit for the year, note B5 Segmental information have been restated. There is no impact on the consolidated income statement, consolidated statement of comprehensive income, consolidated statement of financial position, consolidated statement of changes in equity or consolidated statement of cash flows.

B3 – Exchange rates

The Group's principal overseas operations during the year were located within the eurozone, Canada and Poland. The results and cash flows of these operations have been translated into sterling at the average rates for the year and the assets and liabilities have been translated at the year end rates as follows:

| | 2017 | 2016 |
|---------------------------------|-------|-------|
| Eurozone | | |
| Average rate (€1 equals) | £0.88 | £0.82 |
| Period end rate (€1 equals) | £0.89 | £0.85 |
| Canada | | |
| Average rate (\$CAD1 equals) | £0.60 | £0.56 |
| Period end rate (\$CAD1 equals) | £0.59 | £0.60 |
| Poland | | |
| Average rate (PLN1 equals) | £0.21 | £0.19 |
| Period end rate (PLN1 equals) | £0.21 | £0.19 |
| | | |

B4 – Subsidiaries

This note provides details of the acquisitions and disposals of subsidiaries, joint ventures and associates that the Group has made during the year, together with details of businesses held for sale at the year end and subsequent events.

(a) Acquisitions

(i) Poland

As a result of changes agreed by Aviva and Santander to the shareholders' agreement, Aviva now controls the two joint venture companies and consolidates them with an effective date of 1 January 2017. The change from equity accounted joint ventures to consolidated subsidiaries resulted in a fair value remeasurement gain of £16 million on the previous equity interests of £48 million and recognition of a distribution agreement within intangible assets.

(ii) Aviva Vietnam

On 21 April 2017, Aviva plc announced the acquisition of VietinBank's entire 50% shareholding in its life insurance joint venture VietinBank Aviva Life Insurance Company Limited ('Aviva Vietnam') for a consideration of £20 million and signing of a new life insurance distribution agreement. Following completion of the transaction on 22 May 2017, Aviva Vietnam is now a wholly owned subsidiary, with a change in the legal entity name to Aviva Vietnam Life Insurance Company Limited. The change from an equity accounted joint venture to consolidated subsidiary resulted in a fair value remeasurement gain of £7 million on the previous equity interest of £2 million and recognition of £18 million of goodwill and intangible assets.

(iii) Wealthify

On 5 October 2017, Aviva announced an agreement to acquire a majority shareholding in Wealthify Group Limited, the holding company of Wealthify. The investment is part of Aviva's strategy to build customer loyalty by providing customers with a wide range of insurance and investment services all managed through the convenience and simplicity of Aviva's digital hub, MyAviva. The transaction completed on 8 February 2018.

(iv) Friends First

On 13 November 2017, Aviva announced that it has reached an agreement to acquire Irish insurer Friends First Life Assurance Company dac ('Friends First') for a cash consideration of €130 million (approximately £116 million). As a result of this acquisition, Aviva will become one of the largest composite insurers in Ireland, with its market share in life insurance increasing to 15%, alongside its existing leading 15% market share in general insurance. The transaction is subject to regulatory approval and is expected to complete in the first quarter of 2018.

| Overview | Income & expenses | IFRS | Capital & liquidity | Analysis of assets | VNB & Sales analysis | Other information |
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|
| | | | | | | |

B4 – Subsidiaries continued

(b) Disposal and remeasurement of subsidiaries, joint ventures and associates

The profit/(loss) on the disposal and remeasurement of subsidiaries, joint ventures and associates comprises:

| | 2017 £m | 2016 £m |
|---|------------|------------|
| Remeasurements due to change in control status | | |
| Poland (see (a) (i) above) | 16 | _ |
| Asia – Vietnam (see (a) (ii) above) | 7 | _ |
| Disposals | | |
| France – Antarius (see (b) (i) below) | 180 | _ |
| France – health (see (b) (ii) below) | 36 | _ |
| Spain (see (b) (iii) below) | 28 | _ |
| Ireland – health | _ | (8) |
| Other small operations | (7) | (3) |
| Held for sale remeasurements | | |
| Asia – FPI (see (c) (ii) below) | (118) | _ |
| Asia – Taiwan (see (c) (iii) below) | (7) | _ |
| Total profit/(loss) on disposal and remeasurement | 135 | (11) |

This consists of £23 million of remeasurement gains in respect of the joint venture operations in Poland (see note B4 (a)(i) above) and Aviva Vietnam (see note B4 (a)(ii) above); £237 million profit on the disposals of Antarius, France health, three businesses in Spain (see note B4 (b)(i), (ii) and (iii) below for further details respectively) and other small operations; offset by £125 million of remeasurement losses in relation to FPI and Taiwan (see note B4 (c)(ii) and (c)(iii) for further details respectively).

(i) Antarius

On 5 April 2017, Aviva announced that it had completed the sale of its entire 50% shareholding in Antarius to Sogecap, a subsidiary of Société Générale, for a consideration of €500 million (approximately £433 million). Antarius was owned jointly by Aviva and Crédit du Nord, a separate subsidiary of Société Générale. The transaction resulted in a profit on disposal of £180 million, calculated as follows:

| | £m |
|--|--------|
| Assets | |
| Goodwill, AVIF and other intangibles | 12 |
| Investment property | 49 |
| Loans | 78 |
| Financial investments | 10,873 |
| Reinsurance assets | 408 |
| Other assets | 1,499 |
| Cash and cash equivalents | 468 |
| Total assets | 13,387 |
| Liabilities | |
| Insurance liabilities | 4,720 |
| Liability for investment contracts | 7,247 |
| Unallocated divisible surplus | 832 |
| Other liabilities | 34 |
| Total liabilities | 12,833 |
| Net assets | 554 |
| Non-controlling interests before disposal | (277) |
| Group's share of net assets disposed of | 277 |
| Cash consideration | 433 |
| Less: transaction costs | (2) |
| Net consideration | 431 |
| Currency translation reserve and other reserves recycled to the income statement | 26 |
| Profits on disposal | 180 |

(ii) France – health

On 1 November 2017, Aviva France disposed of a broker distributed individual health insurance portfolio to Malakoff Médéric (MM), a leading French mutual health insurer for cash consideration of €41 million (approximately £36 million), after transaction costs. Net assets disposed of were £nil, primarily relating to intangible assets not recognised by the Group under IFRS, resulting in a profit on disposal of approximately £36 million.

| Overview | Income & expenses | IFRS | Capital & liquidity | Analysis of assets | VNB & Sales analysis | Other information |
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|

B4 – Subsidiaries continued

(iii) Spain

On 15 September 2017, Aviva announced that it had completed the sale of its 50% shareholding in life insurance and pension partnerships Unicorp Vida and Caja España Vida, as well as its wholly owned retail life business Aviva Vida y Pensiones, to Santalucía for a total consideration of €475 million (approximately £400 million). The transaction resulted in a profit on disposal of £28 million, calculated as follows:

| | £m |
|--|-------|
| Assets | |
| Goodwill, AVIF and other intangibles | 161 |
| Financial investments | 4,402 |
| Other assets | 154 |
| Cash and cash equivalents | 440 |
| Total assets | 5,157 |
| Liabilities | |
| Insurance liabilities | 3,777 |
| Unallocated divisible surplus | 244 |
| Net asset value attributable to unitholders | 551 |
| Other liabilities | 149 |
| Total liabilities | 4,721 |
| Net assets | 436 |
| Non-controlling interests before disposal | (116) |
| Group's share of net assets disposed of | 320 |
| Cash consideration ¹ | 400 |
| Less: transaction costs | (10) |
| Net consideration | 390 |
| Currency translation reserve and other reserves recycled to the income statement | (42) |
| Profits on disposal | 28 |
| | |

1 Cash consideration of £400 million above includes a loss of £22 million related to hedging the currency exposure on expected proceeds of the sale.

(c) Assets and liabilities of operations classified as held for sale

The assets and liabilities of operations classified as held for sale as at 31 December 2017 are as follows:

| | 2017 £m | 2016 £m |
|--------------------------------------|------------|------------|
| Assets | | |
| Goodwill, AVIF and other intangibles | 1,467 | 12 |
| Property and equipment | 5 | _ |
| Investment property | _ | 48 |
| Loans | 6 | 75 |
| Financial investments | 8,306 | 10,706 |
| Reinsurance assets | 123 | 411 |
| Other assets | 225 | 1,521 |
| Cash and cash equivalents | 739 | 255 |
| Total assets | 10,871 | 13,028 |
| Liabilities | | |
| Insurance liabilities | (914) | (4,448) |
| Liability for investment contracts | (8,663) | (7,175) |
| Unallocated divisible surplus | (19) | (859) |
| Other liabilities | (277) | (12) |
| Total liabilities | (9,873) | (12,494) |
| Net assets | 998 | 534 |

Assets and liabilities of operations classified as held for sale as at 31 December 2017 relate to the expected disposal of two businesses in Italy, the international operations of Friends Life ('FPI'), Aviva Taiwan and the remaining life insurance businesses in Spain. See below for further details. Assets and liabilities of operations classified as held for sale during 2016 relate to Antarius (see note B4 (b)(i) for further details) disposed of during 2017.

B4 – Subsidiaries continued

(i) Italy

On 29 September 2017, Aviva announced that it had agreed the sale of its entire shareholding of Avipop Assicurazioni S.p.A and Avipop Vita S.p.A to Banco BPM for a consideration of €265 million (approximately £233 million) payable in cash upon completion. This agreement follows a notification received by Aviva on 29 June 2017 of Banco BPM's intention to not renew its distribution agreement with Aviva and Aviva's subsequent decision, announced on 25 August 2017, to exercise its put option. The transaction is subject to regulatory approval and is expected to complete in 2018. In accordance with IFRS 5, these businesses have been classified as held for sale from June 2017. These businesses are measured at their carrying amount and remain consolidated subsidiaries of Aviva at the balance sheet date.

(ii) FPI

On 19 July 2017, Aviva announced the sale of Friends Provident International Limited ('FPI') to RL360 Holding Company Limited, a subsidiary of International Financial Group Limited, for a total consideration of £340 million. The transaction is subject to regulatory approvals and is expected to complete in the first half of 2018. In accordance with IFRS 5, the subsidiary has been classified as held for sale from July 2017 and has been re-measured at fair value based on the expected sales price less costs to sell, calculated as £334 million, after deducting a £6 million reinsurance recapture fee between FPI and Aviva Re Limited which is embedded in the sale agreement. This resulted in a total loss on re-measurement of £118 million in 2017. The business remains a consolidated subsidiary of Aviva at the balance sheet date.

(iii) Taiwan

On 13 October 2017, Aviva announced that it has agreed to sell its entire 49% shareholding in its joint venture in Taiwan, First Aviva Life ('Aviva Taiwan') to Aviva's joint venture partner, First Financial Holding Co. Ltd. ('FFH'). In accordance with IFRS 5, the joint venture has been classified as held for sale from October 2017 and has been re-measured at fair value based on the expected sales prices less costs to sell resulting in a total loss on re-measurement of £7 million in the second half of 2017 following its classification as held for sale. The business remains a joint venture of Aviva at the balance sheet date and was subsequently disposed of on 19 January 2018 following completion of the transaction.

(iv) Spain

On 23 February 2018, Aviva announced that it has agreed to sell its entire shareholding in life insurance and pensions joint ventures Cajamurcia Vida and Caja Granada Vida to Bankia, for a total consideration of €202 million. The transaction is subject to regulatory and anti-trust approvals and is expected to complete in the second quarter of 2018. Following completion of the transaction, Aviva will retain a shareholding in a small life insurance operation, Pelayo Vida, and a residual support centre in Spain. In accordance with IFRS 5, these businesses have been classified as held for sale from December 2017, when management were committed to a plan to sell the businesses. The businesses are measured at their carrying amount and remain consolidated subsidiaries of Aviva at the balance sheet date.

(d) Subsequent events

On 13 February 2018, Aviva announced that it has completed the transaction to develop a digital insurance joint venture in Hong Kong with Hillhouse Capital Group ('Hillhouse') and Tencent Holdings Limited ('Tencent'). The joint venture has been approved by the Hong Kong Insurance Authority and is expected to start operating under its new corporate structure during the first half of 2018. This follows the announcement on 20 January 2017 by which Hillhouse and Tencent have acquired a combined 60% shareholding in Aviva Life Insurance Company Limited ('Aviva Hong Kong').

(e) Significant restrictions

In certain jurisdictions the ability of subsidiaries to transfer funds to the Group in the form of cash dividends or to repay loans and advances is subject to local corporate or insurance laws and regulations and solvency requirements. There are no protective rights of non-controlling interests which significantly restrict the Group's ability to access or use the assets and settle the liabilities of the Group.

B5 – Segmental information

The Group's results can be segmented either by activity or by geography. Our primary reporting format is along market reporting lines, with supplementary information being given by business activity. This note provides segmental information on the consolidated income statement and consolidated statement of financial position.

(a) Operating segments

Following the launch of UK Insurance which brings together the UK Life, UK General Insurance and UK Health businesses, the Group's operating segments were changed to align them with the new management structure (see note B2 for further details). The revised segments are set out below. Results for prior years have been restated to facilitate comparison with this new structure.

United Kingdom

United Kingdom comprises two operating segments – Life and General Insurance. The principal activities of our UK Life operations (including Friends Life) are life insurance, long-term health and accident insurance, savings, pensions and annuity business. UK General Insurance provides insurance cover to individuals and businesses, for risks associated mainly with motor vehicles, property and liability (such as employers' liability and professional indemnity liability) and medical expenses.

Canada

The principal activity of the Canadian operation is general insurance. In particular it provides personal and commercial lines insurance products principally distributed through insurance brokers. Canada includes the operations of RBC General Insurance Company following its acquisition on 1 July 2016.

France

The principal activities of our French operations are long-term business and general insurance. The long-term business offers a range of long-term insurance and savings products, primarily for individuals, with a focus on the unit-linked market. The general insurance business predominantly sells personal and small commercial lines insurance products through agents and a direct insurer. As set out in note B4(b), the results of Antarius are included up to the date of disposal on 5 April 2017.

Poland

Activities in Poland comprise long-term business and general insurance operations, including our long-term business in Lithuania.

Italy, Ireland, Spain and Other

These countries are not individually significant at a Group level, so have been aggregated into a single reporting segment in line with IFRS 8. The principal activities of our Italian and Irish operations are long-term business and general insurance. Ireland also includes the results of our Ireland Health business, up to the date of disposal on 1 August 2016. The principal activity of our Spanish operation is the sale of long-term business, accident and health insurance and a selection of savings products. Our 'Other' operations include our life operations in Turkey. As set out in note B4(b), the results of certain entities within our Spanish business are included up to the date of disposal on 15 September 2017 and as set out in note B4(c), certain entities within our Italian business and the remaining entities within our Spanish business are classified as held for sale as at 31 December 2017.

Asia

Our activities in Asia principally comprise our long-term business operations in China, India, Singapore, Hong Kong, Vietnam, Indonesia, Taiwan and the international operations of Friends Life. This segment also includes general insurance and health operations in Singapore and health operations in Indonesia. As set out in note B4(c), Taiwan and the international operations of Friends Life are classified as held for sale as at 31 December 2017.

Aviva Investors

Aviva Investors operates in most of the markets in which the Group operates, in particular the UK, France, North America, Asia Pacific and other international businesses, managing policyholders' and shareholders' invested funds, providing investment management services for institutional pension fund mandates and managing a range of retail investment products, including investment funds, unit trusts, OEICs and ISAs.

Other Group activities

Investment return on centrally held assets and head office expenses, such as Group treasury and finance functions, together with certain taxes and financing costs arising on central borrowings are included in 'Other Group activities', along with central core structural borrowings and certain tax balances in the segmental statement of financial position. The results of our internal reinsurance operations are also included in this segment, as are the elimination entries for certain inter-segment transactions.

B5 – Segmental information continued

Measurement basis

The accounting policies of the segments are the same as those for the Group as a whole. Any transactions between the business segments are subject to normal commercial terms and market conditions. The Group evaluates performance of operating segments on the basis of: (i) profit or loss from operations before tax attributable to shareholders

(ii) profit or loss from operations before tax attributable to shareholders, adjusted for items outside the segment management's control, including investment market performance and fiscal policy changes.

(a) (i) Segmental income statement for the year ended 31 December 2017

| | | United | | | | | | | | |
|---|----------|---------|--------------|--------------|--------------|--------------------|----------------|------------------------------|-------------------------------|-------------|
| | | Kingdom | - | | | Europe | | | | |
| | | | | | | Italy, Ireland, | | | Other | |
| | Life | GI | Canada | F | Deland | Spain and | A = i = | Aviva | Group | Tatal |
| | £m | £m | Canada £m | France £m | Poland £m | Other £m | Asia £m | Investors ² £m | activities ³ £m | Total £m |
| Gross written premiums | 6,872 | 4,355 | 3,138 | 5,692 | 594 | 5,923 | 1,032 | _ | _ | 27,606 |
| Premiums ceded to reinsurers | (1,531) | (271) | (110) | (78) | (11) | (101) | (127) | _ | _ | (2,229 |
| Internal reinsurance revenue | · · · · | (6) | · _ | `_ | `_' | (9) | (10) | _ | 25 | · – |
| Premiums written net of reinsurance | 5,341 | 4,078 | 3,028 | 5,614 | 583 | 5,813 | 895 | _ | 25 | 25,377 |
| Net change in provision for unearned premiums | | (63) | (84) | 23 | 3 | (21) | (11) | _ | _ | (153 |
| Net earned premiums | 5,341 | 4,015 | 2,944 | 5,637 | 586 | 5,792 | 884 | _ | 25 | 25,224 |
| Fee and commission income | 906 | 121 | 2,344 | 316 | 83 | 141 | 193 | 407 | (4) | 2,187 |
| | | | | | | | | | | - |
| Not in contra out in come | 6,247 | 4,136 | 2,968 | 5,953 | 669 | 5,933 | 1,077 | 407 | 21 | 27,411 |
| Net investment income | 16,202 | 138 | 86 | 2,613 | 292 | 811 | 1,465 | 136 | 323 | 22,066 |
| Inter-segment revenue Share of profit of joint ventures and associates | 72 | _ | _ | 14 | _ | | (57) | 239 | _ | 239 41 |
| Profit/(loss) on the disposal and remeasurement of | 12 | _ | _ | 14 | _ | 12 | (57) | - | _ | 41 |
| subsidiaries, joint ventures and associates | _ | _ | _ | 216 | 16 | 28 | (118) | _ | (7) | 135 |
| | | - | | | | | | | | |
| Segmental income ¹ | 22,521 | 4,274 | 3,054 | 8,796 | 977 | 6,784 | 2,367 | 782 | 337 | 49,892 |
| Claims and benefits paid, net of recoveries from reinsurers | (10,783) | (2,547) | (1,902) | (5,145) | (397) | (2,799) | (526) | — | (14) | (24,113 |
| Change in insurance liabilities, net of reinsurance | 1,380 | 78 | (221) | (804) | (134) | (928) | (450) | . — | 5 | (1,074 |
| Change in investment contract provisions | (9,041) | _ | _ | (1,591) | | (2,121) | (947) | (137) | _ | (13,837 |
| Change in unallocated divisible surplus | 195 | _ | | 153 | (2) | 85 | (137) | | | 294 |
| Fee and commission expense | (496) | (1,268) | (796) | (703) | (134) | (421) | (144) | (39) | (328) | (4,329 |
| Other expenses | (1,385) | (221) | (178) | (281) | (102) | (229) | (298) | (418) | (425) | (3,537 |
| Inter-segment expenses Finance costs | (207) | (8) | (6) (5) | 2 | (6) | (12) | — (2) | _ | (2) | (239) |
| | (233) | (1) | (5) | (1) | - | (7) | (3) | | (433) | (683) |
| Segmental expenses | (20,570) | (3,967) | (3,108) | (8,370) | (775) | (6,432) | (2,505) | (594) | (1,197) | (47,518) |
| Profit/(loss) before tax | 1,951 | 307 | (54) | 426 | 202 | 352 | (138) | 188 | (860) | 2,374 |
| Tax attributable to policyholders' returns | (330) | _ | _ | _ | — | (4) | (37) | — | — | (371 |
| Profit/(loss) before tax attributable to shareholders' | | | | | | | | | | |
| profits | 1,621 | 307 | (54) | 426 | 202 | 348 | (175) | 188 | (860) | 2,003 |
| Adjusting items: | | | | | | | | | | |
| Reclassification of corporate costs and unallocated interest | _ | (12) | 28 | 48 | _ | _ | _ | 5 | (69) | _ |
| Investment return variances and economic assumption | | | | | | | | | | |
| changes on long-term business | (323) | _ | _ | 249 | (7) | 12 | 38 | _ | (3) | (34 |
| Short-term fluctuation in return on investments backing | | | | | | | | | | |
| non-long-term business | _ | 56 | 7 | (26) | (3) | 27 | — | _ | 284 | 345 |
| Economic assumption changes on general insurance and | | | | | | | | | | _ |
| health business | — | 18 | (2) | (9) | _ | _ | _ | _ | _ | 7 |
| Impairment of goodwill, joint ventures and associates and | | | - | | | | | | | |
| other amounts expensed | | _ | 2 | _ | _ | _ | 47 | _ | _ | 49 |
| Amortisation and impairment of intangibles | 74 | 31 | 50 | 1 | 7 | 5 | 9 | 5 | 15 | 197 |
| Amortisation and impairment of AVIF | 327 | _ | _ | 2 | _ | 1 | 154 | _ | 11 | 495 |
| (Profit)/loss on the disposal and remeasurement of | | | | (210) | (10) | (20) | 110 | | - | (125 |
| subsidiaries, joint ventures and associates | _ | _ | _ | (216) | (16) | (28) | 118 | _ | 7 | (135 |
| Group adjusted operating profit before tax attributable | | | | | | | | | | |
| to shareholders' profits after integration and | 1 000 | 400 | 21 | 475 | 100 | 205 | 101 | 100 | (015) | 2 0 2 7 |
| restructuring costs | 1,699 | 400 | 31 | 475 | 183 | 365 | 191 | 198 | (615) | 2,927 |
| Integration and restructuring costs | 65 | 11 | 15 | 25 | | 11 | | 3 | 11 | 141 |
| Group adjusted operating profit/(loss) before tax | | 411 | 46 | 500 | 183 | | | | | |
| attributable to shareholders' profits | 1,764 | | | | | 376 | 191 | 201 | (604) | 3,068 |

1 Total reported income, excluding inter-segment revenue, includes £26,949 million from the United Kingdom (Aviva plc's country of domicile). Income is attributed on the basis of geographical origin which does not differ

materially from revenue by geographical destination, as most risks are located in the countries where the contracts were written Aviva Investors group adjusted operating profit includes £1 million profit relating to Aviva Investors Pooled Pensions business. Other Group activities include Group Reinsurance. 2

B5 – Segmental information continued

(a) (ii) Segmental income statement for the year ended 31 December 2016 - restated¹

| | | United Kingdom | | | | Europe | | | | |
|---|--------------------|-------------------|--------------|--------------------|--------------|--------------------------|------------------|---------------------------------------|--|---------------------|
| | | Kingdonn | - | | It | aly, Ireland, | | | Other | |
| | Life £m | GI £m | Canada £m | France £m | Poland £m | Spain and Other £m | Asia £m | Aviva Investors ³ £m | Group activities ⁴ £m | Total £m |
| Gross written premiums | 5,264 | 4,219 | 2,542 | 6,624 | 496 | 5,377 | 920 | _ | _ | 25,442 |
| Premiums ceded to reinsurers Internal reinsurance revenue | (1,469) | (394) (2) | (89) | (86) | (9) | (183) (10) | (134) (11) | _ | 23 | (2,364) |
| Premiums written net of reinsurance | 3,795 | 3,823 | 2,453 | 6,538 | 487 | 5,184 | 775 | | 23 | 23,078 |
| Net change in provision for unearned premiums | (2) | (109) | (33) | (8) | (16) | (34) | (8) | _ | | (210) |
| Net earned premiums | 3,793 | 3,714 | 2,420 | 6,530 | 471 | 5,150 | 767 | _ | 23 | 22,868 |
| Fee and commission income | 841 | 117 | 17 | 258 | 60 | 148 | 198 | 326 | (3) | 1,962 |
| N1-4 for the former of the second | 4,634 | 3,831 | 2,437 | 6,788 | 531 | 5,298 | 965 | 326 | 20 | 24,830 |
| Net investment income Inter-segment revenue | 24,661 | 242 | 50 | 2,951 | 141 | 816 | 1,240 | 83 234 | 73 | 30,257 234 |
| Share of profit of joint ventures and associates | 172 | _ | 1 | 16 | 7 | 3 | 17 | | _ | 216 |
| (Loss)/profit on the disposal and remeasurement of | (2) | | | | | (0) | | | | (11) |
| subsidiaries, joint ventures and associates | (3) | | | | | (8) | | | | (11) |
| Segmental income ² | 29,464 | 4,073 | 2,488 | 9,755 | 679 | 6,109 | 2,222 | 643 | 93 | 55,526 |
| Claims and benefits paid, net of recoveries from reinsurers Change in insurance liabilities, net of reinsurance | (10,996) | (2,409) | (1,521) | (5,397) | (315) | (2,705) | (399) | _ | (40) | (23,782) |
| Change in investment contract provisions | (3,362) (9,968) | (560) | (16) | (1,221) (1,636) | (79) | (1,312) (1,281) | (349) (1,069) | (85) | 6 | (6,893) (14,039) |
| Change in unallocated divisible surplus | (294) | _ | _ | (276) | 2 | 167 | 20 | (00) | _ | (381) |
| Fee and commission expense | (815) | (1,204) | (628) | (632) | (77) | (395) | (108) | (35) | 9 | (3,885) |
| Other expenses | (1,396) | (162) | (150) | (266) | (64) | (238) | (289) | (393) | (895) | (3,853) |
| Inter-segment expenses Finance costs | (204) (191) | (7) (2) | (5) (4) | (1) (1) | (5) | (9) (7) | (3) | _ | (3) (418) | (234) (626) |
| Segmental expenses | (27,226) | (4,344) | (2,324) | (9,430) | (538) | (5,780) | (2,197) | (513) | (1,341) | (53,693) |
| Profit/(loss) before tax | 2,238 | (1,311) | 164 | 325 | 141 | 329 | 25 | 130 | (1,248) | 1,833 |
| Tax attributable to policyholders' returns | (633) | (211) | | - | — | (5) | (2) | - | (1,210) | (640) |
| Profit/(loss) before tax attributable to shareholders' profits | 1,605 | (271) | 164 | 325 | 141 | 324 | 23 | 130 | (1,248) | 1,193 |
| Adjusting items: | | , , | | | | | | | , , , | |
| Reclassification of corporate costs and unallocated interest Investment return variances and economic assumption | — | (5) | 17 | 46 | — | — | _ | 5 | (63) | — |
| changes on long-term business | (497) | — | — | 86 | 1 | 21 | 10 | — | — | (379) |
| Short-term fluctuation in return on investments backing non-long-term business | (135) | (95) | 42 | (2) | (1) | 29 | _ | _ | 680 | 518 |
| Economic assumption changes on general insurance and health business | _ | 229 | _ | 13 | _ | _ | _ | _ | _ | 242 |
| Impairment of goodwill, joint ventures and associates and | | | | | | | | | | |
| other amounts expensed Amortisation and impairment of intangibles | 71 | 24 | 29 | 2 | 3 | 7 | 9 | 6 | 24 | 175 |
| Amortisation and impairment of AVIF | 387 | | | 3 | 2 | 2 | 142 | _ | 4 | 540 |
| Loss/(profit) on the disposal and remeasurement of | | | | | | | | | | |
| subsidiaries, joint ventures and associates | 3 | | _ | — | _ | 8 | _ | _ | _ | 11 |
| Other ⁵ | | 498 | | | | | | | | 498 |
| Group adjusted operating profit before tax attributable to shareholders' profits after integration and | | | | | | | | | | |
| restructuring costs | 1,434 | 380 | 252 | 473 | 146 | 391 | 184 | 141 | (603) | 2,798 |
| Integration and restructuring costs | 119 | 15 | 18 | 8 | _ | 1 | 17 | 19 | 15 | 212 |
| Group adjusted operating profit/(loss) before tax attributable to shareholders' profits | 1,553 | 395 | 270 | 481 | 146 | 392 | 201 | 160 | (588) | 3,010 |

Following the launch of UK Insurance which brings together UK Life, UK General Insurance and UK Health into a combined business, the Ireland Life and General Insurance businesses have been aligned to the new management structure and reported within Europe. As a result, comparative balances have been restated.
 Total reported income, excluding inter-segment revenue, includes £33,784 million from the United Kingdom (Aviva plc's country of domicile). Income is attributed on the basis of geographical origin which does not differ materially from revenue by geographical destination, as most risks are located in the countries where the contracts were written.
 Aviva Investors group adjusted operating profit includes £2 million profit relating to the Aviva Investors Pooled Pensions business.
 Other Group activities include Group Reinsurance.
 Other Intems include exceptional charge of £475 million relating to the change in the Ogden discount rate from 2.5% set in 2001 to minus 0.75% announced by the Lord Chancellor on 27 February 2017. Other items also include a loss upon the completion of an outwards reinsurance contract by the UK General Insurance business, which provides significant protection against claims volatility from mesothelioma, industrial deafness and other long tail risks. The £23 million loss comprises £107 million in premiums ceded less £78 million in reinsurance recoverables recognised and £6 million claims handling provisions.

| Overview | Income & expenses | IFRS | Capital & liquidity | Analysis of assets | VNB & Sales analysis | Other information |
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|

B5 – Segmental information continued (a) (iii) Segmental statement of financial position as at 31 December 2017

| Total equity and liabilities | | | | | | | | | | 442,685 |
|---|------------|-------------------|--------------|--------------|--------------|--------------------------------------|-------------|--------------------------|------------------------------------|-------------|
| Total equity | | | | | | | | | | 19,135 |
| Total liabilities | 249,672 | 7,082 | 5,998 | 83,839 | 3,717 | 31,847 | 13,939 | 1,622 | 25,834 | 423,550 |
| Liabilities of operations classified as held for sale | - | _ | _ | - | _ | 1,021 | 8,852 | _ | - | 9,873 |
| Other liabilities, including inter-segment liabilities | 14,234 | (294) | 971 | 4,927 | 253 | 869 | 618 | 392 | 1,376 | 23,346 |
| External borrowings | 1,566 | _ | _ | 1 | _ | 70 | _ | _ | 8,649 | 10,286 |
| Net asset value attributable to unitholders | 57 | _ | _ | 2,472 | _ | _ | _ | _ | 15,798 | 18,327 |
| Unallocated divisible surplus | 2,514 | _ | _ | 5,239 | 68 | 922 | 339 | _,0 | _ | 9,082 |
| Liability for investment contracts | 130,890 | _ | | 53,529 | 2 | 18,335 | _ | 1,230 | _ | 203,986 |
| Other insurance liabilities | 5 | 68 | 124 | 51 | | 520 | - | _ | 2 | 257 |
| Unearned premiums | 228 | 2,003 | 1,578 | 458 | 119 | 520 | 4,030 74 | _ | _ | 4,980 |
| Long-term business and outstanding claims provisions | 100,178 | 5,305 | 3,325 | 17,162 | 3,275 | 10,103 | 4,056 | _ | 9 | 143,413 |
| Insurance liabilities | | | | | | | | | | |
| Total assets | 261,931 | 11,476 | 6,890 | 86,363 | 4,255 | 33,512 | 15,531 | 2,218 | 20,509 | 442,685 |
| Assets of operations classified as held for sale | _ | _ | - | _ | _ | 1,685 | 9,186 | _ | _ | 10,871 |
| Other assets | 38,800 | 5,370 | 1,338 | 8,567 | 244 | 3,591 | 765 | 1,020 | 11,995 | 71,690 |
| Deferred acquisition costs | 1,364 | 487 | 383 | 322 | 118 | 222 | 8 | 2 | | 2,906 |
| Financial investments | 184,428 | 4,184 | 4,592 | 72,886 | 3,775 | 27,403 | 5,007 | 400 | 8,407 | 311,082 |
| Loans | 26,695 | 5 | 180 | 739 | 7 | 197 | 34 | — | — | 27,857 |
| Investment property | 6,242 | 324 | — | 3,322 | — | 215 | — | 788 | (94) | 10,797 |
| Property and equipment | 52 | 30 | 46 | 253 | 4 | 3 | 8 | 4 | 109 | 509 |
| Interests in, and loans to, joint ventures and associates | 936 | — | 9 | 184 | _ | 68 | 445 | _ | _ | 1,642 |
| assets | 2,751 | 152 | 258 | 90 | 78 | 4 | 26 | 4 | 92 | 3,455 |
| Acquired value of in-force business and intangible | | | | | | | | | | |
| Goodwill | 663 | 924 | 84 | _ | 29 | 124 | 52 | _ | _ | 1,876 |
| | Life £m | GI £m | Canada £m | France £m | Poland £m | Ireland, Spain and Other £m | Asia £m | Aviva Investors £m | Other Group activities £m | Total £m |
| | | Kiliguolii | - | | | Italy, | | | | |
| | | United Kingdom | | | | Europe | | | | |

| Overview | Income & expenses | IFRS | Capital & liquidity | Analysis of assets | VNB & Sales analysis | Other information |
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|
| | | | | | | |

B5 – Segmental information continued

(a) (iv) Segmental statement of financial position as at 31 December 2016 - restated¹

| | | United Kingdom | | | | Europe | | | | |
|--|------------|-------------------|--------------|--------------|--------------|---|------------|--------------------------|------------------------------------|-------------|
| | Life £m | GI | Canada £m | France £m | Poland £m | Italy, Ireland, Spain and Other £m | Asia £m | Aviva Investors £m | Other Group activities £m | Total £m |
| Goodwill | 663 | 924 | 88 | _ | 26 | 293 | 51 | _ | _ | 2,045 |
| Acquired value of in-force business and intangible | | | | | | | | | | |
| assets | 3,152 | 160 | 292 | 86 | 12 | 619 | 1,062 | 9 | 76 | 5,468 |
| Interests in, and loans to, joint ventures and | | | | | | | | | | |
| associates | 1,257 | - | 13 | 169 | 48 | 71 | 527 | - | _ | 2,085 |
| Property and equipment | 78 | 27 | 24 | 240 | 4 | 5 | 12 | 5 | 92 | 487 |
| Investment property | 6,304 | 208 | | 2,878 | _ | 201 | | 951 | 226 | 10,768 |
| Loans | 23,693 | 5 | 170 | 757 | | 122 | 37 | | | 24,784 |
| Financial investments | 168,273 | 3,961 | 4,670 | 68,427 | 3,015 | 29,267 | 11,460 | 574 | 10,188 | 299,835 |
| Deferred acquisition costs | 1,122 | 478 | 360 | 280 | 45 | 213 | 113 | 3 | | 2,614 |
| Other assets | 51,489 | 5,499 | 1,372 | 7,716 | 237 | 3,585 | 1,479 | 961 | 6,967 | 79,305 |
| Assets of operations classified as held for sale | | | - | 13,028 | - | | | | | 13,028 |
| Total assets | 256,031 | 11,262 | 6,989 | 93,581 | 3,387 | 34,376 | 14,741 | 2,503 | 17,549 | 440,419 |
| Insurance liabilities Long-term business and outstanding claims | | | | | | | | | | |
| provisions | 101,906 | 5,461 | 3,248 | 15,932 | 2,698 | 13,166 | 3,750 | _ | 12 | 146,173 |
| Unearned premiums | 227 | 1,925 | 1,527 | 463 | 68 | 492 | 64 | _ | _ | 4,766 |
| Other insurance liabilities | — | 66 | 118 | 51 | _ | 6 | _ | _ | 3 | 244 |
| Liability for investment contracts | 121,508 | _ | _ | 49,929 | 2 | 15,690 | 8,395 | 1,571 | _ | 197,095 |
| Unallocated divisible surplus | 2,709 | - | - | 5,151 | 60 | 1,223 | 206 | - | _ | 9,349 |
| Net asset value attributable to unitholders | 76 | - | - | 2,349 | - | 509 | - | - | 12,704 | 15,638 |
| External borrowings | 1,793 | _ | _ | 1 | - | 46 | - | - | 8,455 | 10,295 |
| Other liabilities, including inter-segment liabilities | 15,239 | (472) | 1,107 | 4,694 | 139 | 1,288 | 645 | 396 | 1,778 | 24,814 |
| Liabilities of operations classified as held for sale | - | - | _ | 12,494 | _ | _ | _ | _ | _ | 12,494 |
| Total liabilities | 243,458 | 6,980 | 6,000 | 91,064 | 2,967 | 32,420 | 13,060 | 1,967 | 22,952 | 420,868 |
| Total equity | | | | | | | | | | 19,551 |
| Total equity and liabilities | | | | | | | | | | 440,419 |

1 Following the launch of UK Insurance which brings together UK Life, UK General Insurance and UK Health into a combined business, the Ireland Life and General Insurance businesses have been aligned to the new management structure and reported within Europe. As a result, comparative balances have been restated.

(b) Further analysis by products and services

The Group's results can be further analysed by products and services which comprise long-term business, general insurance and health, fund management and other activities.

Long-term business

Our long-term business comprises life insurance, long-term health and accident insurance, savings, pensions and annuity business written by our life insurance subsidiaries, including managed pension fund business. Long-term business also includes our share of the other life and related business written in our associates and joint ventures, as well as lifetime mortgage business written in the UK.

General insurance and health

Our general insurance and health business provides insurance cover to individuals and to small and medium-sized businesses, for risks associated mainly with motor vehicles, property and liability, such as employers' liability and professional indemnity liability, and medical expenses.

Fund management

Our fund management business invests policyholders' and shareholders' funds and provides investment management services for institutional pension fund mandates. It manages a range of retail investment products, including investment funds, unit trusts, OEICs and ISAs. Clients include Aviva Group businesses and third-party financial institutions, pension funds, public sector organisations, investment professionals and private investors.

Other

Other includes service companies, head office expenses such as Group treasury and finance functions, and certain financing costs and taxes not allocated to business segments and elimination entries for certain inter-segment transactions.

| Overview | Income & expenses | IFRS | Capital & liquidity | Analysis of assets | VNB & Sales analysis | Other information |
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|

B5 – Segmental information continued (b) (i) Segmental income statement – products and services for the year ended 31 December 2017

| | Long-term business £m | General insurance and health ² £m | Fund management £m | Other £m | Total £m |
|--|-----------------------------|---|--------------------------|-------------|-------------|
| Gross written premiums ¹ | 17,083 | 10,523 | _ | - | 27,606 |
| Premiums ceded to reinsurers | (1,741) | (488) | _ | — | (2,229) |
| Premiums written net of reinsurance | 15,342 | 10,035 | _ | _ | 25,377 |
| Net change in provision for unearned premiums | _ | (153) | — | — | (153) |
| Net earned premiums | 15,342 | 9,882 | _ | _ | 25,224 |
| Fee and commission income | 1,334 | 23 | 369 | 461 | 2,187 |
| | 16,676 | 9,905 | 369 | 461 | 27,411 |
| Net investment income/(expense) | 21,468 | 331 | (1) | 268 | 22,066 |
| Inter-segment revenue | _ | _ | 244 | _ | 244 |
| Share of profit of joint ventures and associates | 41 | _ | _ | _ | 41 |
| Profit/(loss) on the disposal and remeasurement of subsidiaries, joint ventures and associates | 100 | 42 | _ | (7) | 135 |
| Segmental income | 38,285 | 10,278 | 612 | 722 | 49,897 |
| Claims and benefits paid, net of recoveries from reinsurers | (17,791) | (6,322) | _ | _ | (24,113) |
| Change in insurance liabilities, net of reinsurance | (863) | (211) | _ | _ | (1,074) |
| Change in investment contract provisions | (13,837) | _ | _ | _ | (13,837) |
| Change in unallocated divisible surplus | erat | _ | _ | _ | 294 |
| Fee and commission expense | (1,140) | (2,615) | (36) | (538) | (4,329) |
| Other expenses | (1,807) | (572) | (425) | (733) | (3,537) |
| Inter-segment expenses | (226) | (15) | — | (3) | (244) |
| Finance costs | (240) | (6) | — | (437) | (683) |
| Segmental expenses | (35,610) | (9,741) | (461) | (1,711) | (47,523) |
| Profit/(loss) before tax | 2,675 | 537 | 151 | (989) | 2,374 |
| Tax attributable to policyholders' returns | (371) | _ | _ | _ | (371) |
| Profit/(loss) before tax attributable to shareholders' profits | 2,304 | 537 | 151 | (989) | 2,003 |
| Adjusting items | 578 | 163 | 13 | 311 | 1,065 |
| Group adjusted operating profit/(loss) before tax attributable to shareholders' profits | 2,882 | 700 | 164 | (678) | 3,068 |

Gross written premiums include inward reinsurance premiums assumed from other companies amounting to £91 million, of which £73 million relates to property and liability insurance and £18 million relates to long-term business.
 General insurance and health business segment includes gross written premiums of £914 million relating to health business. The remaining business relates to property and liability insurance.

| Overview Income & expenses IFRS Capital & liquidity Analysis of assets VNB & Sales analysis Other informatio | | Overview | Income & expenses | IFRS | Capital & liquidity | Analysis of assets | VNB & Sales analysis | Other information | I |
|--|--|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|---|
|--|--|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|---|

B5 – Segmental information continued (b) (ii) Segmental income statement – products and services for the year ended 31 December 2016

| | Long-term business £m | General insurance and health ² £m | Fund management £m | Other £m | Total £m |
|--|-----------------------------|---|--------------------------|-------------|-----------------|
| Gross written premiums ¹ Premiums ceded to reinsurers | 15,748 (1,697) | 9,694 (667) | _ | _ | 25,442 |
| | () / | . , | _ | _ | (2,364) |
| Premiums written net of reinsurance Net change in provision for unearned premiums | 14,051 | 9,027 (210) | _ | _ | 23,078 (210) |
| Net earned premiums | 14,051 | 8,817 | _ | _ | 22,868 |
| Fee and commission income | 1,234 | 26 | 300 | 402 | 1,962 |
| | 15,285 | 8,843 | 300 | 402 | 24,830 |
| Net investment income/(expense) | 29,695 | 383 | (2) | 181 | 30,257 |
| Inter-segment revenue | — | _ | 239 | _ | 239 |
| Share of profit of joint ventures and associates | 213 | 3 | — | - | 216 |
| (Loss)/profit on the disposal and remeasurement of subsidiaries, joint ventures and associates | (3) | (8) | _ | - | (11) |
| Segmental income | 45,190 | 9,221 | 537 | 583 | 55,531 |
| Claims and benefits paid, net of recoveries from reinsurers | (18,026) | (5,756) | _ | _ | (23,782) |
| Change in insurance liabilities, net of reinsurance | (6,249) | (644) | _ | _ | (6,893) |
| Change in investment contract provisions | (14,039) | _ | _ | _ | (14,039) |
| Change in unallocated divisible surplus | (381) | _ | — | _ | (381) |
| Fee and commission expense | (1,369) | (2,299) | (33) | (184) | (3,885) |
| Other expenses | (1,887) | (521) | (396) | (1,049) | (3,853) |
| Inter-segment expenses | (222) | (12) | _ | (5) | (239) |
| Finance costs | (183) | (5) | _ | (438) | (626) |
| Segmental expenses | (42,356) | (9,237) | (429) | (1,676) | (53,698) |
| Profit/(loss) before tax | 2,834 | (16) | 108 | (1,093) | 1,833 |
| Tax attributable to policyholders' returns | (640) | _ | _ | _ | (640) |
| Profit/(loss) before tax attributable to shareholders' profits | 2,194 | (16) | 108 | (1,093) | 1,193 |
| Adjusting items | 448 | 849 | 30 | 490 | 1,817 |
| Group adjusted operating profit/(loss) before tax attributable to shareholders' profits | 2,642 | 833 | 138 | (603) | 3,010 |

Gross written premiums include inward reinsurance premiums assumed from other companies amounting to £138 million, of which £54 million relates to property and liability insurance and £84 million relates to long-term business.
 General insurance and health business segment includes gross written premiums of £1,030 million relating to health business. The remaining business relates to property and liability insurance

| Overview | Income & expenses | IFRS | Capital & liquidity | Analysis of assets | VNB & Sales analysis | Other information |
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|

B5 – Segmental information continued (b) (iii) Segmental statement of financial position – products and services as at 31 December 2017

| | Long-term business £m | | Fund management £m | Other £m | Total £m |
|---|-----------------------------|--------|--------------------------|-------------|-------------|
| Goodwill | 720 | 1,084 | 3 | 69 | 1,876 |
| Acquired value of in-force business and intangible assets | 2,922 | 439 | 4 | 90 | 3,455 |
| Interests in, and loans to, joint ventures and associates | 1,617 | 9 | _ | 16 | 1,642 |
| Property and equipment | 240 | 136 | 4 | 129 | 509 |
| Investment property | 10,392 | 499 | _ | (94) | 10,797 |
| Loans | 27,671 | 186 | _ | - | 27,857 |
| Financial investments | 290,840 | 11,934 | 54 | 8,254 | 311,082 |
| Deferred acquisition costs | 1,804 | 1,100 | 2 | _ | 2,906 |
| Other assets | 49,054 | 9,075 | 905 | 12,656 | 71,690 |
| Assets of operations classified as held for sale | 10,552 | 319 | _ | — | 10,871 |
| Total assets | 395,812 | 24,781 | 972 | 21,120 | 442,685 |
| Gross insurance liabilities | 131,987 | 16,663 | _ | _ | 148,650 |
| Gross liabilities for investment contracts | 203,986 | _ | _ | _ | 203,986 |
| Unallocated divisible surplus | 9,082 | _ | _ | _ | 9,082 |
| Net asset value attributable to unitholders | 2,529 | _ | _ | 15,798 | 18,327 |
| External borrowings | 1,601 | _ | _ | 8,685 | 10,286 |
| Other liabilities, including inter-segment liabilities | 18,740 | 1,369 | 376 | 2,861 | 23,346 |
| Liabilities of operations classified as held for sale | 9,694 | 179 | _ | - | 9,873 |
| Total liabilities | 377,619 | 18,211 | 376 | 27,344 | 423,550 |
| Total equity | | | | | 19,135 |
| Total equity and liabilities | | | | | 442,685 |

(b) (iv) Segmental statement of financial position - products and services as at 31 December 2016

| | Long-term business £m | General insurance and health £m | Fund management £m | Other £m | Total £m |
|---|-----------------------------|--|--------------------------|-------------|-------------|
| Goodwill | 889 | 1,086 | 3 | 67 | 2,045 |
| Acquired value of in-force business and intangible assets | 4,845 | 571 | 9 | 43 | 5,468 |
| Interests in, and loans to, joint ventures and associates | 2,030 | 42 | _ | 13 | 2,085 |
| Property and equipment | 264 | 109 | 5 | 109 | 487 |
| Investment property | 10,202 | 341 | _ | 225 | 10,768 |
| Loans | 24,607 | 177 | _ | - | 24,784 |
| Financial investments | 277,889 | 11,699 | 51 | 10,196 | 299,835 |
| Deferred acquisition costs | 1,574 | 1,037 | 3 | — | 2,614 |
| Other assets | 61,780 | 8,995 | 835 | 7,695 | 79,305 |
| Assets of operations classified as held for sale | 13,028 | _ | _ | — | 13,028 |
| Total assets | 397,108 | 24,057 | 906 | 18,348 | 440,419 |
| Gross insurance liabilities | 134,695 | 16,488 | _ | _ | 151,183 |
| Gross liabilities for investment contracts | 197,095 | — | — | _ | 197,095 |
| Unallocated divisible surplus | 9,349 | _ | — | | 9,349 |
| Net asset value attributable to unitholders | 2,934 | — | — | 12,704 | 15,638 |
| External borrowings | 1,718 | _ | — | 8,577 | 10,295 |
| Other liabilities, including inter-segment liabilities | 19,930 | 1,215 | 371 | 3,298 | 24,814 |
| Liabilities of operations classified as held for sale | 12,494 | - | _ | - | 12,494 |
| Total liabilities | 378,215 | 17,703 | 371 | 24,579 | 420,868 |
| Total equity | | | | | 19,551 |
| Total equity and liabilities | | | | | 440,419 |

| Overview | Income & expenses | IFRS | Capital & liquidity | Analysis of assets | VNB & Sales analysis | Other information |
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|
| | | | | | | |

B6 – Tax

This note analyses the tax charge for the year and explains the factors that affect it.

(a) Tax charged to the income statement

(i) The total tax charge comprises:

| | 2017 £m | 2016 £m |
|---|-------------------|--------------------|
| Current tax For the period Prior period adjustments | 651 (46) | 930 1 |
| Total current tax | 605 | 931 |
| Deferred tax Origination and reversal of temporary differences Changes in tax rates or tax laws Write down/(back) of deferred tax assets | 134 (8) (3) | 72 (14) (15) |
| Total deferred tax | 123 | 43 |
| Total tax charged to income statement | 728 | 974 |

(ii) The Group, as a proxy for policyholders in the UK, Ireland and Singapore, is required to record taxes on investment income and gains each year. Accordingly, the tax benefit or expense attributable to UK, Irish and Singapore life insurance policyholder returns is included in the tax charge. The tax charge attributable to policyholder returns included in the charge above is £371 million (2016: charge of £640 million).

(iii) The tax charge above, comprising current and deferred tax, can be analysed as follows:

| | 2017 £m | 2016 £m |
|--------------|------------|------------|
| UK tax | 528 | 688 |
| Overseas tax | 200 | 286 |
| | 728 | 974 |

(iv) Unrecognised tax losses and temporary differences of previous years were used to reduce the current tax expense and deferred tax expense by £13 million and £nil million (2016: £10 million and £8 million), respectively.

(v) Deferred tax charged/(credited) to the income statement represents movements on the following items:

| | 2017 £m | 2016 £m |
|---|------------|------------|
| Long-term business technical provisions and other insurance items | 37 | (147) |
| Deferred acquisition costs | (2) | (12) |
| Unrealised gains/(losses) on investments | (33) | 144 |
| Pensions and other post-retirement obligations | 19 | 21 |
| Unused losses and tax credits | 19 | 39 |
| Subsidiaries, associates and joint ventures | (4) | 4 |
| Intangibles and additional value of in-force long-term business | (85) | (99) |
| Provisions and other temporary differences | 172 | 93 |
| Total deferred tax charged /(credited) to income statement | 123 | 43 |

(b) Tax charged/(credited) to other comprehensive income

(i) The total tax charge/(credit) comprises:

| | 2017 £m | 2016 £m |
|--|-------------------|--------------|
| Current tax In respect of pensions and other post-retirement obligations In respect of foreign exchange movements | (45) 4 (41) | (25) 31 |
| Deferred tax In respect of pensions and other post-retirement obligations In respect of fair value (losses)/gains on owner-occupied properties In respect of unrealised (losses)/gains on investments | 42 (2) (9) | 94 1 3 |
| | 31 | 98 |
| Total tax (credited)/ charged to other comprehensive income | (10) | 104 |

(ii) The tax charge attributable to policyholders' returns included above is £nil (2016: £nil).

B6 – Tax continued

(c) Tax credited to equity

Tax credited directly to equity in the year in respect of coupon payments on the direct capital instrument and tier 1 notes amounted to £16 million (2016: £17 million).

(d) Tax reconciliation

The tax on the Group's profit before tax differs from the theoretical amount that would arise using the tax rate of the home country of the Company as follows:

| | Shareholder £m | Policyholder £m | 2017 £m | Shareholder £m | Policyholder £m | 2016 £m |
|---|-------------------|--------------------|------------|-------------------|--------------------|------------|
| Total profit before tax | 2,003 | 371 | 2,374 | 1,193 | 640 | 1,833 |
| Tax calculated at standard UK corporation tax rate of 19.25% (2016: 20.00%) | 386 | 71 | 457 | 239 | 128 | 367 |
| Reconciling items | | | | | | |
| Different basis of tax – policyholders | _ | 301 | 301 | _ | 513 | 513 |
| Adjustment to tax charge in respect of prior periods | (44) | _ | (44) | (34) | _ | (34) |
| Non-assessable income and items not taxed at the full statutory rate | (47) | _ | (47) | 39 | _ | 39 |
| Non-taxable (profit)/loss on sale of subsidiaries and associates | (27) | _ | (27) | 1 | _ | 1 |
| Disallowable expenses | 47 | _ | 47 | 49 | _ | 49 |
| Different local basis of tax on overseas profits | 82 | (1) | 81 | 97 | (1) | 96 |
| Change in future local statutory tax rates | (36) | _ | (36) | (36) | _ | (36) |
| Movement in deferred tax not recognised | (3) | _ | (3) | (13) | _ | (13) |
| Tax effect of profit from joint ventures and associates | (3) | _ | (3) | (6) | _ | (6) |
| Other | 2 | _ | 2 | (2) | _ | (2) |
| Total tax charged to income statement | 357 | 371 | 728 | 334 | 640 | 974 |

The tax charge/(credit) attributable to policyholder returns is removed from the Group's total profit before tax in arriving at the Group's profit before tax attributable to shareholders' profits. As the net of tax profits attributable to with-profits and unit-linked policyholders is zero, the Group's pre-tax profit attributable to policyholders is an amount equal and opposite to the tax charge/(credit) attributable to policyholders is policyholders included in the total tax charge.

Finance (No 2) Act 2015 introduced legislation reducing the UK rate of corporation tax from 20% at 1 April 2016 to 19% from 1 April 2017 and to 18% from 1 April 2020. Finance Act 2016 further reduced the corporation tax rate from 1 April 2020 to 17%. In addition, in France, the rate of corporation tax was reduced from 34.43% to 28.92% with effect from 1 January 2020. These reduced rates were used in the calculation of the Group's deferred tax assets and liabilities as at 31 December 2016.

In 2017 further changes were made in France to reduce the corporation tax rate to 32.02% from 1 January 2019 and to 27.37% from 1 January 2021 and 25.83% from 1 January 2022. These reduced rates have been incorporated in the calculation of France's deferred tax assets and liabilities as at 31 December 2017 and results in a reduction in the Group's net deferred tax liabilities of £15 million, comprising of a £8 million credit to the Income Statement and £7 million credit to the Statement of Comprehensive Income.

B7 – Earnings per share

This note shows how we calculate earnings per share on profit attributable to ordinary shareholders, based both on the present shares in issue (the basic earnings per share) and the potential future shares in issue, including conversion of share options granted to employees (the diluted earnings per share). We have also shown the same calculations based on our Group adjusted operating profit as we believe this gives a better indication of operating performance. Consideration of both these measures gives a full picture of the performance of the business in the period.

(a) Basic earnings per share

(i) The profit attributable to ordinary shareholders is:

| | 2017 | | | | | | |
|--|--|--------------------------|------------------------|--|--------------------------|----------------------|--|
| | Group adjusted operating profit £m | Adjusting items £m | Total £m | Group adjusted operating profit £m | Adjusting items £m | Total £m | |
| Profit before tax attributable to shareholders' profits Tax attributable to shareholders' profit | 3,068 (639) | (1,065) 282 | 2,003 (357) | 3,010 (706) | (1,817) 372 | 1,193 (334) | |
| Profit for the year Amount attributable to non-controlling interests Cumulative preference dividends for the year Coupon payments in respect of the direct capital instrument (DCI) and tier 1 notes (net | 2,429 (134) (17) | (783) (15) — | 1,646 (149) (17) | 2,304 (147) (17) | (1,445) (9) — | 859 (156) (17) | |
| of tax) | (65) | _ | (65) | (68) | _ | (68) | |
| Profit attributable to ordinary shareholders | 2,213 | (798) | 1,415 | 2,072 | (1,454) | 618 | |

(ii) Basic earnings per share is calculated as follows:

| | | | 2017 | | | 2016 |
|--|-----------------------|--|----------------|------------------|---|----------------|
| | d Before tax £m | Net of tax, non- controlling interests, preference ividends and DCI ¹ £m | Per share p | Before tax £m | Net of tax, non- controlling interests, preference dividends and DCl ¹ £m | Per share P |
| Group adjusted operating profit attributable to ordinary shareholders | 3,068 | 2,213 | 54.8 | 3,010 | 2,072 | 51.1 |
| Integration and restructuring costs | (141) | (111) | (2.8) | (212) | (170) | (4.2) |
| Group adjusted operating profit attributable to ordinary shareholders after integration and restructuring costs Adjusting items: Investment return variances and economic assumption changes on long-term | 2,927 | 2,102 | 52.0 | 2,798 | 1,902 | 46.9 |
| business | 34 | 86 | 2.1 | 379 | 313 | 7.8 |
| Short-term fluctuation in return on investments backing non-long-term business | (345) | (250) | (6.3) | (518) | (398) | (9.8) |
| Economic assumption changes on general insurance and health business | (7) | (6) | (0.1) | (242) | (193) | (4.8) |
| Impairment of goodwill, joint ventures and associates and other amounts expensed | (49) | (49) | (1.2) | _ | _ | _ |
| Amortisation and impairment of intangibles | (197) | (151) | (3.7) | (175) | (137) | (3.4) |
| Amortisation and impairment of acquired value of in-force business | (495) | (430) | (10.6) | (540) | (455) | (11.2) |
| Profit/(loss) on disposal and remeasurement of subsidiaries, joint ventures and | 125 | 112 | 20 | (11) | (10) | (0,4) |
| associates Other ² | 135 | 113 | 2.8 | (11) (498) | (16) | (0.4) |
| | _ | | | (498) | (398) | (9.8) |
| Profit attributable to ordinary shareholders | 2,003 | 1,415 | 35.0 | 1,193 | 618 | 15.3 |

DCI includes the direct capital instrument and tier 1 notes.
 Other items include an exceptional charge of £nil (2016: £475 million), £nil net of tax (2016: £380 million), relating to the impact of the change in the Ogden discount rate from 2.5% set in 2001 to minus 0.75% announced by the Lord Chancellor on 27 February 2017.

(iii) The calculation of basic earnings per share uses a weighted average of 4,041 million (*2016: 4,051 million*) ordinary shares in issue, after deducting treasury shares. The actual number of shares in issue at 31 December 2017 was 4,013 million (*2016: 4,062 million*) and 4,010 million (*2016: 4,058 million*) excluding treasury shares.

(iv) On 25 May 2017 Aviva announced a share buy-back of ordinary shares for an aggregate purchase price of up to £300 million, which was carried out in full during the period from 25 May 2017 to 19 September 2017. The number of shares in issue has reduced by 58 million as at 31 December 2017 in respect of shares acquired and cancelled under the buy-back programme. Net of new shares issued during the period, the number of shares in issue reduced by 49 million.

| Overview | Income & expenses | IFRS | Capital & liquidity | Analysis of assets | VNB & Sales analysis | Other information |
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|

B7 – Earnings per share continued

(b) Diluted earnings per share

(i) Diluted earnings per share is calculated as follows:

| | | | 2017 | | | 2016 |
|--|-------|----------------------|-----------|-------|----------------------|-----------|
| | | Weighted | | | Weighted | |
| | | average number of | | | average number of | |
| | Total | shares | Per share | Total | shares | Per share |
| | £m | million | р | £m | million | р |
| Profit attributable to ordinary shareholders | 1,415 | 4,041 | 35.0 | 618 | 4,051 | 15.3 |
| Dilutive effect of share awards and options | _ | 48 | (0.4) | _ | 38 | (0.2) |
| Diluted earnings per share | 1,415 | 4,089 | 34.6 | 618 | 4,089 | 15.1 |

(ii) Diluted earnings per share on Group adjusted operating profit attributable to ordinary shareholders is calculated as follows:

| | | | 2016 | | | |
|--|-------------|---|----------------|-------------|---|----------------|
| | Total £m | Weighted average number of shares million | Per share P | Total £m | Weighted average number of shares million | Per share P |
| Group adjusted operating profit attributable to ordinary shareholders Dilutive effect of share awards and options | 2,213 | 4,041 48 | 54.8 (0.7) | 2,072 | 4,051 38 | 51.1 (0.4) |
| Diluted Group adjusted operating profit per share | 2,213 | 4,089 | 54.1 | 2,072 | 4,089 | 50.7 |

B8 – Dividends and appropriations

This note analyses the total dividends and other appropriations we paid during the year. The table below does not include the final dividend proposed after the year end because it is not accrued in these financial statements.

| | 2017 £m | 2016 £m |
|---|------------|------------|
| Ordinary dividends declared and charged to equity in the year | | |
| Final 2016 – 15.88 pence per share, paid on 17 May 2017 | 646 | _ |
| Final 2015 – 14.05 pence per share, paid on 17 May 2016 | _ | 570 |
| Interim 2017 – 8.40 pence per share, paid on 17 November 2017 | 337 | _ |
| Interim 2016 – 7.42 pence per share, paid on 17 November 2016 | - | 301 |
| | 983 | 871 |
| Preference dividends declared and charged to equity in the year | 17 | 17 |
| Coupon payments on direct capital instrument and tier 1 notes | 81 | 85 |
| | 1,081 | 973 |

Subsequent to 31 December 2017, the directors proposed a final dividend for 2017 of 19.00 pence per ordinary share (*2016: 15.88 pence*), amounting to £763 million (*2016: £646 million*) in total. Subject to approval by shareholders at the AGM, the dividend will be paid on 17 May 2018 and will be accounted for as an appropriation of retained earnings in the year ending 31 December 2018.

Interest on the direct capital instrument and tier 1 notes is treated as an appropriation of retained profits and, accordingly, is accounted for when paid. Tax relief is obtained at a rate of 19.25% (2016: 20.00%).

B9 – Insurance liabilities

This note analyses the Group insurance contract liabilities by type of product and describes how the Group calculates these liabilities and the assumptions used.

(a) Carrying amount

(i) Insurance liabilities (gross of reinsurance) at 31 December comprised:

| | | | 2017 | | | 2016 |
|---|-----------------------------|--|------------------|-----------------------------|--|------------------|
| | Long-term business £m | General insurance and health £m | Total £m | Long-term business £m | General insurance and health £m | Total £m |
| Long-term business provisions | | | | | | |
| Participating Unit-linked non-participating | 49,928 16,040 | _ | 49,928 16,040 | 56,760 16,026 | — | 56,760 16,026 |
| Other non-participating | 65,004 | _ | 65,004 | 64,432 | | 64,432 |
| | 130,972 | _ | 130,972 | 137,218 | — | 137,218 |
| Outstanding claims provisions Provision for claims incurred but not reported | 1,798 | 8,964 2,837 | 10,762 2,837 | 1,925 | 8,749 2,960 | 10,674 2,960 |
| | 1,798 | 11,801 | 13,599 | 1,925 | 11,709 | 13,634 |
| Provision for unearned premiums Provision arising from liability adequacy tests ¹ | | 4,980 13 | 4,980 13 | | 4,766 13 | 4,766 13 |
| Total | 132,770 | 16,794 | 149,564 | 139,143 | 16,488 | 155,631 |
| Less: Amounts classified as held for sale | (783) | (131) | (914) | (4,448) | _ | (4,448) |
| | 131,987 | 16,663 | 148,650 | 134,695 | 16,488 | 151,183 |

1 Provision arising from liability adequacy tests relates to general insurance business only. Liability adequacy test provisions for life operations are included in other line items.

(ii) Change in insurance liabilities recognised as an expense

The purpose of the following table is to reconcile the change in insurance liabilities, net of reinsurance, shown on the income statement, to the change in insurance liabilities recognised as an expense in the relevant movement tables in this note. The components of the reconciliation are the change in provision for outstanding claims on long-term business (which is not included in a separate movement table), and the unwind of discounting on general insurance reserves (which is included within finance costs in the income statement). For general insurance and health business, the change in the provision for unearned premiums is not included in the reconciliation as, within the income statement, this is included within earned premiums.

| 2017 | Gross £m | Reinsurance £m | Net £m |
|---|-------------|-------------------|-----------|
| Long-term business | | | |
| Change in long-term business provisions | 624 | 315 | 939 |
| Change in provision for outstanding claims | (65) | (11) | (76) |
| | 559 | 304 | 863 |
| General insurance and health | | | |
| Change in insurance liabilities | 73 | 138 | 211 |
| Less: Unwind of discount on GI reserves and other | (9) | 9 | _ |
| | 64 | 147 | 211 |
| Total change in insurance liabilities (note 6) | 623 | 451 | 1,074 |

| | | Net |
|-------|-----------------------------------|---|
| £m | £m | £m |
| | | |
| 7,164 | (993) | 6,171 |
| 91 | (13) | 78 |
| 7,255 | (1,006) | 6,249 |
| | | |
| 867 | (222) | 645 |
| (11) | 10 | (1) |
| 856 | (212) | 644 |
| 8,111 | (1,218) | 6,893 |
| - | 91 7,255 867 (11) 856 | 91 (13) 7,255 (1,006) 867 (222) (11) 10 856 (212) |

1 Reinsurance assets at 31 December 2016 for General Insurance and health business include the impact of the £78 million reinsurance asset relating to an outwards reinsurance contract completed by the UK General Insurance

Includes £475 million in the UK General Insurance business relating to the impact of the change in the Ogden discount rate.

B9 – Insurance liabilities continued

(b) Long-term business liabilities

(i) Business description

The Group underwrites long-term business in a number of countries as follows:

- In the UK, in Aviva Life & Pensions UK (UKLAP) mainly in:
 - New With-Profits Sub-Fund (NWPSF) where the with-profits policyholders are entitled to at least 90% of the distributed profits, with the shareholders receiving the balance. Any surplus or deficit emerging in NWPSF that is not distributed as bonus will be transferred from this sub-fund to the Reattributed Inherited Estate External Support Account (RIEESA) (see below).
 - Old With-Profits Sub-Fund (OWPSF), UKLAP With-Profits Sub-Fund (UKLAP WPSF) and Provident Mutual Sub-Fund (PMSF) of UKLAP, where the with-profits policyholders are entitled to at least 90% of the distributed profits, with the shareholders receiving the balance.
 - The FP With-Profits Sub-Fund (FP WPSF), which was formally closed to new business during 2017 and where shareholders are entitled to 10% of the distributed profits, plus 60% of the surplus arising on pre-demutualisation non-profit and unitised business and noninvestment sources of surplus on policies held by post-demutualisation policyholders. The Friends Provident demutualisation occurred in 2001.
 - The FLC New With-Profits Sub-Fund (FLC New WPSF), the FLC Old With-Profits Sub-Fund (FLC Old WPSF), the WL With-Profits Sub-Fund (WL WPSF) and FLAS With-Profits Sub-Fund (FLAS WPSF) which are closed to new business and where policyholders are entitled to 90% of the distributed profits aside from certain policies in the FLC New WPSF and the FLC Old WPSF with guaranteed bonus rates, and certain policies in the WL WPSF which are reinsured into the fund where the shareholders do not receive one-ninth of the bonus.
 - FPLAL With-Profits Sub-Fund (FPLAL WPSF) and Secure Growth Fund (SGF), which are closed to new business and where policyholders
 are entitled to 100% of the distributed profits.
 - The 'Non-profit' fund, where shareholders are entitled to 100% of the distributed profits. Shareholder profits on unitised with-profits business written in UKLAP WPSF and on stakeholder unitised with-profits business written in NWPSF and OWPSF are derived from management fees and policy charges, and emerge in the non-profit funds.
 - RIEESA is a non-profit fund where shareholders are entitled to 100% of the distributed profits, but these cannot be distributed until the 'lock-in' criteria set by the Reattribution Scheme have been met. RIEESA is used to provide capital support to NWPSF, and has been used in the past to write non-participating business.
- In France, the majority of policyholders' benefits are determined by investment performance, subject to certain guarantees, and shareholders' profits are derived largely from management fees. In addition, a substantial number of policies participate in investment returns, with the balance being attributable to shareholders.
- In other operations in Europe and Asia, a range of long-term insurance and savings products are written.

(ii) Group practice

The long-term business provision is calculated separately for each of the Group's life operations. The provisions for overseas subsidiaries have generally been included on the basis of local regulatory requirements, modified where necessary to reflect the requirements of the Companies Act 2006.

Material judgement is required in calculating the provisions and is exercised particularly through the choice of assumptions where discretion is permitted. In turn, the assumptions used depend on the circumstances prevailing in each of the life operations. Provisions are most sensitive to assumptions regarding discount rates and mortality/morbidity rates. Where discount rate assumptions are based on current market yields on fixed interest securities, allowance is made for default risk implicit in the yields on the underlying assets.

Bonuses paid during the year are reflected in claims paid, whereas those allocated as part of the bonus declaration are included in the movements in the long-term business provision.

For UK with-profits life funds falling within the scope of FRS 27, which was grandfathered from UK regulatory requirements under IFRS 4 prior to the adoption of Solvency II, an amount may be recognised for the present value of future profits (PVFP) on non-participating business written in a with-profits fund where the determination of the realistic value of liabilities in that with-profits fund takes account, directly or indirectly, of this value. For NWPSF, OWPSF, UKLAP WPSF and PMSF no adjustment for this value is made to the participating insurance and investment contract liabilities or the unallocated divisible surplus. For FP WPSF, FPLAL WPSF, FLC New WPSF, FLC Old WPSF, FLAS WPSF, WL WPSF and SGF the non-participating liabilities are measured on a realistic basis with implicit recognition of the present value of future profits and hence no additional explicit adjustment is required for this value.

(iii) Methodology and assumptions

The main method of actuarial valuation of liabilities arising under long-term insurance contracts is the gross premium method which involves the discounting of projected premiums and claims.

The gross premium method uses the amount of contractual premiums payable and includes explicit assumptions for interest and discount rates, mortality and morbidity, persistency and future expenses. These assumptions can vary by contract type and reflect current and expected future experience.

B9 – Insurance liabilities continued

(a) UK

With-profits business

The Group's UK with-profit liabilities are evaluated by reference to FRS27, which was grandfathered under IFRS 4, prior to the adoption of Solvency II. Under these rules, provision for guarantees and options within realistic liabilities are measure at fair value, using market-consistent stochastic models. A stochastic approach includes measuring the time value of guarantees and options, which represents the additional cost arising from uncertainty surrounding future economic conditions.

The key elements of the realistic liabilities are the with-profits benefit reserve (WPBR) and the present value of the expected cost of any payments in excess of the WPBR (referred to as the cost of future policy-related liabilities). The realistic liability for any contract is equal to the sum of the WPBR and the cost of future policy-related liabilities, which includes the value of any 'planned enhancements' to benefits agreed by the Company.

The WPBR for an individual contract is generally calculated on a retrospective basis, and represents the accumulation of the premiums paid on the contract, allowing for investment return, taxation, expenses and any other charges levied on the contract. For a small proportion of business, a prospective valuation approach is used, including allowance for anticipated future regular and final bonuses. The cost of future policy-related liabilities include:

- Maturity Guarantees;
- Guarantees on surrender, including no-MVR (Market Value Reduction) Guarantees and Guarantees linked to inflation;
- Guaranteed Annuity Options;
- GMP (Guaranteed Minimum Pension) underpin on Section 32 transfers; and
- Expected payments under Mortgage Endowment Promise.

The cost of future policy-related liabilities is determined using a market-consistent approach and, in the main, this is based on a stochastic model calibrated to market conditions at the end of the reporting period. Non-market-related assumptions (for example, persistency, mortality and expenses) are assessed on a best estimate basis with reference to Company and wider industry experience, adjusted to take into account future trends.

On 1 January 2016 the Solvency I Pillar 1 regulatory regime was replaced with Solvency II, under which realistic liabilities were replaced with Best Estimate Liabilities (BEL). Key differences between the realistic liabilities and the Solvency II BEL are that BEL excludes the shareholder's share of future bonuses, excludes certain planned and approved enhancements to benefits (part of Solvency II surplus funds) and uses a higher yield (EIOPA specified) for future investment returns and discounting. Adjusting the yield used in the calculation of the BEL by removing the volatility and credit risk adjustments, including planned enhancements that are part of Solvency II surplus funds and making other less significant adjustments, results in a valuation in accordance with FRS 27.

For periods subsequent to 31 December 2015, the with-profits business is valued based on an adjusted Solvency II BEL assessment. The principal assumptions underlying the cost of future policy-related liabilities are as follows:

Future investment return

A 'risk-free' rate equal to the spot yield on UK swaps is used for the valuation of with-profits business. The rates vary according to the outstanding term of the policy, with a typical rate as at 31 December 2017 of 1.29% (2016: 1.25%) for a policy with ten years outstanding.

Volatility of investment return

Volatility assumptions are set with reference to implied volatility data on traded market instruments, where available, or on a best estimate basis where not.

| Volatility | 2017 | 2016 |
|------------------|-------|-------|
| Equity returns | 20.9% | 23.9% |
| Property returns | 16.4% | 16.4% |

The equity volatility used depends on term, money-ness and region. The figure shown is for a sample UK equity, at the money, with a tenyear term.

Future regular bonuses

Annual bonus assumptions for 2018 have been set consistently with the year-end 2017 declaration. Future annual bonus rates reflect the principles and practices of each fund. In particular, the level is set with regard to the projected margin for final bonus and the change from one year to the next is limited to a level consistent with past practice.

Mortality

Mortality assumptions for with-profits business are set with regard to recent Company experience and general industry trends. The mortality tables used in the valuation are summarised below:

| Mortality table used | 2017 | 2016 |
|---|--|--|
| Assurances, pure endowments and deferred annuities before vesting | Nil or Axx00 adjusted | Nil or Axx00 adjusted |
| Pensions business after vesting and pensions annuities in payment | PCMA00/PCFA00 adjusted plus allowance for future mortality improvement | PCMA00/PCFA00 adjusted plus allowance for future mortality improvement |

Allowance for future mortality improvement is in line with the rates shown for non-profit business below.

B9 – Insurance liabilities continued

Expenses

Maintenance charge assumptions for with-profits business are generally expressed as a fixed 'per policy' charge in line with agreements between Aviva Life Services UK (UKLS) and Aviva Life & Pensions UK (UKLAP). The assumptions increase by future charge inflation over the lifetime of each contract, which is 50% RPI, 100% RPI or 100% RPI + 1% depending on product type. Any excess of expenses charged by UKLS to UKLAP over the charges specified by the agreements is borne by the non-profits business.

Non-profit business

The valuation of non-profit business is based on grandfathered regulatory requirements under IFRS 4 prior to the adoption of Solvency II, adjusted to remove certain regulatory reserves and margins in assumptions, notably for annuity business. Conventional non-profit contracts, including those written in the with-profits funds, are valued using gross premium methods which discount projected future cash flows. The cash flows are calculated using the amount of contractual premiums payable, together with explicit assumptions for investment returns, inflation, discount rates, mortality, morbidity, persistency and future expenses. These assumptions vary by contract type and reflect current and expected future experience with an allowance for prudence. For FP WPSF, FPLAL WPSF, FLC New WPSF, FLC Old WPSF, FLAS WPSF, WL WPSF and SGF the non-participating liabilities are measured on a realistic basis with implicit recognition of the present value of future profits.

For unit-linked and some unitised with-profits business, the provisions are valued by adding a prospective non-unit reserve to the bid value of units. The prospective non-unit reserve is calculated by projecting the future non-unit cash flows using prudent assumptions and on the assumption that future premiums cease, unless it is more onerous to assume that they continue. Where appropriate, allowance for persistency is based on actual experience.

Valuation discount rate assumptions are set with regard to yields on the supporting assets and the general level of long-term interest rates as measured by gilt yields. An explicit allowance for risk is included by making an explicit deduction from the yields on corporate bonds, mortgages and deposits, based on historical default experience of each asset class. A further margin for risk is then deducted for all asset classes.

The provisions held in respect of guaranteed annuity options are a prudent assessment of the additional liability incurred under the option on a basis and method consistent with that used to value basic policy liabilities, and includes a prudent assessment of the proportion of policyholders who will choose to exercise the option.

Maintenance expense assumptions for non-profit business are generally expressed as a 'per policy' charge set with regards to an allocation of current year expense levels by broad category of business and using the policy counts for in-force business. The assumptions also include an allowance for prudence and increase by future expense inflation over the lifetime of each contract. Expense inflation is assumed to be in line with RPI. An additional liability is held if projected per-policy expenses in future years are expected to exceed current assumptions. Further, explicit project expense liabilities are held for non-discretionary project costs that typically relate to mandatory regulatory requirements. Expense-related liabilities are only held where expenses are not covered by anticipated future profits in the liability methodology, notably for unit-linked contracts.

Valuation discount rates for business in the non-profit funds are as follows:

| Valuation discount rates (Gross of investment expenses) | 2017 | 2016 |
|--|--------------|----------------|
| Assurances | | |
| Life conventional non-profit | 0.8% to 2.5% | 0.5% to 2.6% |
| Pensions conventional non-profit | 1.0% to 2.4% | 0.8% to 2.1% |
| Annuities | | |
| Conventional immediate and deferred annuities | 1.0% to 2.8% | 0.6% to 2.8% |
| Non-unit reserves on Unit Linked business | | |
| Life | 0.8% to 1.2% | 0.7% to 1.3% |
| Pensions | 0.8% to 1.5% | 0.7% to 1.6% |
| Income Protection ¹ | | |
| Active lives | 1.0% to 2.5% | 1.0 to 2.6% |
| Claims in payment (level and index linked) | 1.0% to 1.5% | (0.2)% to 1.6% |

1 Income protection business (pre-existing UKLAP) now uses a nominal swaps curve for all sub-classes and has been shown as an equivalent flat rate in the table above. Previously, a real interest rate was used for the index linked claims in payment.

The above valuation discount rates are after reduction for risk, but before allowance for investment expenses. For conventional immediate annuity business the allowance for risk comprises long-term assumptions for defaults or (in the case of equity release assets) expected losses arising from the No-Negative-Equity guarantee. These allowances vary by asset category and for some asset classes by rating. The risk allowances made for corporate bonds, mortgages (including healthcare mortgages, commercial mortgages and infrastructure assets), and Equity Release for business transferred in from Aviva Annuity UK Ltd in 2017 equated to 48 bps, 40 bps, and 102 bps respectively at 31 December 2017 (*2016: 47 bps, 48 bps, and 102 bps respectively*). The risk allowances made for corporate bonds and mortgages for business transferred in from Friends Life Limited in 2017 equated to 47 bps and 33 bps respectively at 31 December 2017 (*2016: 37 bps and 42 bps respectively*).

For corporate bonds, the allowance represented approximately 37% and 39% respectively of the average credit spread for the portfolios transferred in from Aviva Annuity UK Limited and from Friends Life Limited (2016: 31% and 31% respectively)

The total valuation allowance for business transferred from Aviva Annuity UK Limited in respect of corporate bonds and mortgages, including healthcare mortgages but excluding equity release, was £1.3 billion (*2016: £1.3 billion*) over the remaining term of the portfolio while for Friends Life Limited it was £0.5 billion (*2016: £0.5 billion*). The total valuation allowance for business transferred from Aviva Annuity UK Limited in respect of equity release assets was £1.2 billion (*2016: £1.1 billion*). Total liabilities for the annuity business were £52 billion at 31 December 2017 (*2016: £50 billion*).

| Overview | Income & expenses | IFRS | Capital & liquidity | Analysis of assets | VNB & Sales analysis | Other information |
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|
| | | | | - | - | |

B9 – Insurance liabilities continued

Mortality assumptions for non-profit business are set with regard to recent Company experience and general industry trends. The mortality tables used in the valuation are summarised below:

| Mortality tables used | 2017 | 2016 |
|---|---------------------------------------|---------------------------------------|
| Assurances | | |
| Non-profit | AM00/AF00 or TM08/TF08 | AM00/AF00 or TM00/TF00 |
| | adjusted for smoker status | adjusted for smoker status and |
| | and age/sex specific factors | age/sex specific factors |
| Pure endowments and deferred annuities before vesting | AM00/AF00 adjusted | AM00/AF00 adjusted |
| Annuities in payment | · · · · · · · · · · · · · · · · · · · | · · · · · · · · · · · · · · · · · · · |
| Pensions business and general annuity business | PCMA00/PCFA00 adjusted plus | PCMA00/PCFA00 adjusted plus |
| | allowance for future | allowance for future mortality |
| | mortality improvement | improvement |

For the largest portfolio of pensions annuity business transferred from Aviva Annuity UK Limited, the underlying mortality assumptions for Males are 104.0% of PCMA00 (2016: 98.0% of PCMA00) with base year 2000; for Females the underlying mortality assumptions are 94.5% of PCFA00 (2016: 91.0% of PCFA00) with base year 2000. A negative provision of £0.1billion is also held to allow for higher mortality at old ages being experienced in our portfolio relative to the above assumptions. For the largest portfolio of pensions annuity business transferred from Friends Life Limited, the underlying mortality assumptions for Males are 103.4% of PCMA00 (2016: 98.5% of PCMA00) with base year 2000; for Females the underlying mortality assumptions are 104.4% of PCFA00 (2016: 98.5% of PCFA00) with base year 2000.

For all the main portfolios of annuities, improvements are based on 'CMI_2016 (S=7.5) Advanced with adjustments' (2016: CMI_2015) with a long-term improvement rate of 1.75% (2016: 1.75%) for males and 1.5% (2016: 1.5%) for females, both with an addition for prudence of 0.5% (2016: 0.5%) to all future annual improvement adjustments. The CMI_2016 tables have been adjusted by adding 0.25% and 0.35% to the initial rate of mortality improvements for males and females respectively (to allow for greater mortality improvements in the annuitant population relative to the general population on which CMI_2016 is based), and uses the advanced parameters to taper the long-term improvement rates to zero between ages 90 and 115 (the 'core' parameters taper the long-term improvement rates to zero between ages 85 and 110). For pension annuity business transferred in from Aviva Annuity UK limited, year-specific adjustments are made to allow for potential selection effects due to the development of the Enhanced Annuity market and covering possible selection effects from pension freedom reforms.

(b) France

The majority of reserves arise from single premium savings products and are based on the accumulated fund values, adjusted to maintain consistency with the value of the assets backing the policyholder liabilities. For traditional business, the net premium method is used for prospective valuations, in accordance with local regulation, where the valuation assumptions depend on the date of issue of the contract. The valuation discount rate also depends on the original duration of the contract and mortality rates are based on industry tables.

| | Valu | ation discount rates | Mortality tables used | |
|------------------------------|------------------------|--------------------------|--|--|
| | 2017 | 2016 | 2017 and 2016 | |
| | | | TD73-77,TD88-90,TH00-02 TF00- 02,H_AVDBS,F_AVDBS | |
| Life assurances Annuities | 0% to 4.5% 0% to 2% | 0% to 4.5% 0% to 4.5% | H_SSDBS, F_SSDBS TGF05/TGH05 | |

(c) Other countries

In all other countries, local generally accepted interest rates and published standard mortality tables are used for different categories of business as appropriate. The tables are based on relevant experience and show mortality rates, by age, for specific groupings of people.

(iv) Movements

The following movements have occurred in the gross long-term business provisions during the year

| | 2017 £m | 2016 £m |
|--|------------|------------|
| Carrying amount at 1 January | 137,218 | 125,348 |
| Provisions in respect of new business | 5,731 | 5,224 |
| Expected change in existing business provisions | (7,747) | (8,235) |
| Variance between actual and expected experience | 1,520 | 4,752 |
| Impact of non-economic assumption changes | (1,175) | (536) |
| Impact of economic assumption changes | 2,115 | 5,930 |
| Other movements recognised as an expense ¹ | 180 | 29 |
| Change in liability recognised as an expense | 624 | 7,164 |
| Effect of portfolio transfers, acquisitions and disposals ² | (8,124) | _ |
| Foreign exchange rate movements | 1,252 | 4,761 |
| Other movements | 2 | (55) |
| Carrying amount at 31 December | 130,972 | 137,218 |

1 Other movements during 2017 primarily relates to a special bonus distribution to with-profits policyholders (UK Life)

2 The movement during 2017 primarily relates to the disposal of Antarius in France and a major share of the business in Spain offset by the consolidation of the Poland and Vietnam joint ventures.

B9 – Insurance liabilities continued

For many types of long-term business, including unit-linked and participating funds, movements in asset values are offset by corresponding changes in liabilities, limiting the net impact on profit.

The £1.5 billion impact of variance between actual and expected experience in 2017 is mainly due to higher than expected equity returns in the UK increasing with-profits and unit-linked liabilities.

The impact of non-economic assumption changes of $\pounds(1.2)$ billion in 2017 reduces the carrying value of insurance liabilities and relates mainly to release of reserves for longevity which is partially offset by increase in expense and persistency reserves for the UK business (with the impact on profit partially offset by a corresponding reduction in reinsurance assets).

The £2.1 billion impact of economic assumption changes in 2017 reflects a decrease in valuation interest rates in response to increasing interest rates and narrowing spreads, primarily in respect of immediate annuity and participating insurance contracts in the UK.

For participating business, a movement in liabilities is generally offset by a corresponding adjustment to the unallocated divisible surplus and does not impact on profit. Where assumption changes do impact on profit, these are included in the effect of changes in assumptions and estimates during the year, together with the impact of movements in related non-financial assets.

(c) General insurance and health liabilities

(i) Provisions for outstanding claims

Delays occur in the notification and settlement of claims and a substantial measure of experience and judgement is involved in assessing outstanding liabilities, the ultimate cost of which cannot be known with certainty at the statement of financial position date. The reserves for general insurance and health business are based on information currently available. However, it is inherent in the nature of the business written that the ultimate liabilities may vary as a result of subsequent developments.

Provisions for outstanding claims are established to cover the outstanding expected ultimate liability for losses and loss adjustment expenses (LAE) in respect of all claims that have already occurred. The provisions established cover reported claims and associated LAE, as well as claims incurred but not yet reported and associated LAE.

The Group only establishes loss reserves for losses that have already occurred. The Group therefore does not establish catastrophe equalisation reserves that defer a share of income in respect of certain lines of business from years in which a catastrophe does not occur to future periods in which catastrophes may occur. When calculating reserves, the Group takes into account estimated future recoveries from salvage and subrogation, and a separate asset is recorded for expected future recoveries from reinsurers after considering their collectability.

The table below shows the split of total general insurance and health outstanding claim provisions and IBNR provisions, gross of reinsurance, by major line of business.

| | | As at 31 December 2017 As at 31 December 201 | | | | | |
|-----------|--|--|---------------------------------|--|-----------------------|---------------------------------|--|
| | Outstanding claim provisions £m | IBNR provisions £m | Total claim provisions £m | Outstanding claim provisions £m | IBNR provisions £m | Total claim provisions £m | |
| Motor | 5,039 | 1,339 | 6,378 | 4,690 | 1,623 | 6,313 | |
| Property | 1,734 | 114 | 1,848 | 1,711 | 57 | 1,768 | |
| Liability | 1,814 | 1,270 | 3,084 | 1,907 | 1,257 | 3,164 | |
| Creditor | 24 | 11 | 35 | 23 | 20 | 43 | |
| Other | 353 | 103 | 456 | 418 | 3 | 421 | |
| | 8,964 | 2,837 | 11,801 | 8,749 | 2,960 | 11,709 | |

(ii) Discounting

Outstanding claims provisions are based on undiscounted estimates of future claim payments, except for the following classes of business for which discounted provisions are held:

| | | Rate | | Mean term of liabilities |
|----------------------------------|--------------|----------------|---------------|--------------------------|
| Class | 2017 | 2016 | 2017 | 2016 |
| Reinsured London Market business | 0.7% to 2.6% | 2.0% | 9 years | 9 years |
| Latent claims | 0.7% to 1.9% | 0.00% to 2.31% | 8 to 17 years | 6 to 15 years |
| Structured settlements | 0.5% to 3.0% | 0.15% to 2.98% | 7 to 39 years | 13 to 39 years |

The gross outstanding claims provision before discounting was £11,346 million (*2016: £12,196 million*). The period of time which will elapse before the liabilities are settled has been estimated by modelling the settlement patterns of the underlying claims.

The discount rate that has been applied to latent claims reserves and reinsured London Market business is based on the relevant swap curve in the relevant currency having regard to the expected settlement dates of the claims. The range of discount rates used depends on the duration of the claims and is given in the table above. The duration of the claims span over 35 years, with the average duration being between 6 and 15 years depending on the geographical region.

Any change in discount rates between the start and the end of the accounting period is reflected outside of Group adjusted Operating profit as an economic assumption change.

IFRS

Notes to the consolidated financial statements continued

B9 – Insurance liabilities continued

(iii) Assumptions

Outstanding claims provisions are estimated based on known facts at the date of estimation. Case estimates are set by skilled claims technicians and established case setting procedures. Claims technicians apply their experience and knowledge to the circumstances of individual claims. They take into account all available information and correspondence regarding the circumstances of the claim, such as medical reports, investigations and inspections. Claims technicians set case estimates according to documented claims department policies and specialise in setting estimates for certain lines of business or types of claim. Claims above certain limits are referred to senior claims handlers for estimate authorisation.

No adjustments are made to the claims technicians' case estimates included in booked claim provisions, except for rare occasions when the estimated ultimate cost of individual large or unusual claims may be adjusted, subject to internal reserve committee approval, to allow for uncertainty regarding, for example, the outcome of a court case. The ultimate cost of outstanding claims is then estimated by using a range of standard actuarial claims projection techniques, such as the Chain Ladder and Bornhuetter-Ferguson methods. The main assumption underlying these techniques is that a company's past claims development experience can be used to project future claims development and hence ultimate claims costs. As such, these methods extrapolate the development of paid and incurred losses, average costs per claim and claim numbers based on the observed development of earlier years and expected loss ratios. Historical claims development is mainly analysed by accident period, although underwriting or notification period is also used where this is considered appropriate.

Claim development is separately analysed for each geographic area, as well as by each line of business. Certain lines of business are also further analysed by claim type or type of coverage. In addition, large claims are usually separately addressed, either by being reserved at the face value of loss adjuster estimates or separately projected in order to reflect their future development.

The assumptions used in most non-life actuarial projection techniques, including future rates of claims inflation or loss ratio assumptions, are implicit in the historical claims development data on which the projections are based. Additional qualitative judgement is used to assess the extent to which past trends may not apply in the future, for example, to reflect one-off occurrences, changes in external or market factors such as public attitudes to claiming, economic conditions, levels of claims inflation, judicial decisions and legislation, as well as internal factors such as portfolio mix, policy conditions and claims handling procedures in order to arrive at a point estimate for the ultimate cost of claims that represents the likely outcome, from a range of possible outcomes, taking account of all the uncertainties involved. The range of possible outcomes does not, however, result in the quantification of a reserve range. The following explicit assumptions are made which could materially impact the level of booked net reserves:

(a) UK mesothelioma claims

The level of uncertainty associated with latent claims is considerable due to the relatively small number of claims and the long-tail nature of the liabilities. UK mesothelioma claims account for a large proportion of the Group's latent claims. The key assumptions underlying the estimation of these claims include claim numbers, the base average cost per claim, future inflation in the average cost of claims and legal fees.

The best estimate of the liabilities reflects the latest available market information and studies. Many different scenarios can be derived by flexing these key assumptions and applying different combinations of the different assumptions. An upper and lower scenario can be derived by making reasonably likely changes to these assumptions, resulting in an estimate £35 million (2016: £25 million) greater than the best estimate, or £40 million (2016: £45 million) lower than the best estimate. These scenarios do not, however, constitute an upper or lower bound on these liabilities.

(b) Interest rates used to discount latent claim liabilities and structured settlements

The discount rates used in determining our latent claim liabilities and structured settlements are based on the relevant swap curve in the relevant currency at the reporting date, having regard to the duration of the expected settlement of claims. The range of discount rates used is shown in section (ii) above and depends on the duration of the claim and the reporting date. At 31 December 2017, it is estimated that a 1% fall in the discount rates used would increase net claim reserves by approximately £110 million (2016: £220 million), excluding the offsetting effect on asset values as assets are not hypothecated across classes of business. The impact has fallen during 2017 due to a reduction in bodily injury claims in the UK settled by periodic payment orders (PPOs) or structured settlements as a result of a reduction in the Ogden rate from 2.5% to -0.75% making them less attractive compared to a lump sum settlement.

(c) Allowance for risk and uncertainty

The uncertainties involved in estimating loss reserves are allowed for in the reserving process and by the estimation of explicit reserve uncertainty distributions. The reserve estimation basis for non-life claims requires all non-life businesses to calculate booked claim provisions as the best estimate of the cost of future claim payments, plus an explicit allowance for risk and uncertainty. The allowance for risk and uncertainty is calculated by each business unit in accordance with the requirements of the Group non-life reserving policy, taking into account the risks and uncertainties specific to each line of business and type of claim in that territory. The requirements of the Group non-life reserving policy also seek to ensure that the allowance for risk and uncertainty is set consistently across both business units and reporting periods.

Changes to claims development patterns can materially impact the results of actuarial projection techniques. However, allowance for the inherent uncertainty in the assumptions underlying reserving projections is automatically allowed for in the explicit allowance for risk and uncertainty included when setting booked reserves.

Lump sum payments in settlement of bodily injury claims decided by the UK courts are calculated in accordance with the Ogden Tables and discount rate. The Ogden discount rate is set by the Lord Chancellor in accordance with the Damages Act 1996 and is applied when calculating the present value of future care costs and loss of earnings for claims settlement purposes.

B9 – Insurance liabilities continued

Due to the uncertainty around the Ogden discount rate, the claim reserves in the UK have been calculated using the current Ogden discount rate of -0.75%, as this is the enacted legislative rate that was announced by the Lord Chancellor last year. However, the discount rate used in the Ogden Tables is currently being reviewed by the Lord Chancellor and draft legislation has been proposed (but not yet enacted) which, at the time it was published, indicated a discount rate in the range of 0% to 1%. By way of illustration, should the Ogden discount rate increase in the future by 1%, then this would be expected to reduce reserves by approximately £250 million with an equivalent impact on profit before tax.

(iv) Movements

The following changes have occurred in the general insurance and health claims provisions during the year:

| | 2017 £m | 2016 £m |
|---|------------|------------|
| Carrying amount at 1 January | 11,709 | 9,446 |
| Impact of changes in assumptions | (7) | 324 |
| Claim losses and expenses incurred in the current year | 6,890 | 6,703 |
| Decrease in estimated claim losses and expenses incurred in prior periods | (172) | (7) |
| Incurred claims losses and expenses | 6,711 | 7,020 |
| Less: | | |
| Payments made on claims incurred in the current year | (3,642) | (3,505) |
| Payments made on claims incurred in prior periods | (3,283) | (2,893) |
| Recoveries on claim payments | 278 | 234 |
| Claims payments made in the period, net of recoveries | (6,647) | (6,164) |
| Unwind of discounting | 9 | 11 |
| Changes in claims reserve recognised as an expense | 73 | 867 |
| Effect of portfolio transfers, acquisitions and disposals | 3 | 430 |
| Foreign exchange rate movements | 16 | 966 |
| Carrying amount at 31 December | 11,801 | 11,709 |

The effect of changes in the main assumptions is given in note B12.

(d) Loss development tables

(i) Description of tables

The tables that follow present the development of claim payments and the estimated ultimate cost of claims for the accident years 2008 to 2017. The upper half of the tables shows the cumulative amounts paid during successive years related to each accident year. For example, with respect to the accident year 2008, by the end of 2017 £9,033 million had actually been paid in settlement of claims. In addition, as reflected in the lower section of the table, the original estimated ultimate cost of claims of £9,508 million was re-estimated to be £9,195 million at 31 December 2017.

The original estimates will be increased or decreased, as more information becomes known about the individual claims and overall claim frequency and severity.

The Group aims to maintain reserves in respect of its general insurance and health business that protect against adverse future claims experience and development. The Group establishes reserves in respect of the current accident year (2017), where the development of claims is less mature, that allow for the greater uncertainty attaching to the ultimate cost of current accident year claims. As claims develop and the ultimate cost of claims become more certain, the absence of adverse claims experience will result in a release of reserves from earlier accident years, as shown in the loss development tables and movements table (c)(iv) above. Releases from prior accident year reserves are also due to an improvement in the estimated cost of claims.

Key elements of the release from prior accident year general insurance and health net provisions during 2017 were:

- £107 million release from UK due to favourable claims experience in Personal Motor offset by the less favourable experience in 2017 of Commercial Liability claims and large claims in Personal and Commercial Property.
- £2 million strengthening from Canada due to the better than expected claims experience following the 2010 Ontario auto reforms tailing off, unfavourable development in the Ontario Accident Benefits coverage in the RBC book in 2017, deterioration of experience in Alberta Auto Bodily Injury and Newfoundland Auto Bodily Injury.
- £79 million release from Europe (including Ireland) mainly due to continued favourable development in France and Italy.

Key elements of the release from prior accident year general insurance and health net provisions during 2016 were:

- £208 million strengthening from UK & Ireland due to the impact of the change in the Ogden discount rate in the UK partly offset by other favourable developments on personal motor and commercial liability claims.
- £154 million release from Canada mainly due to continued favourable experience on motor, following the legislative changes in Ontario.
- £90 million release from Europe mainly due to favourable development in France and Italy.

| Overview | Income & expenses | IFRS | Capital & liquidity | Analysis of assets | VNB & Sales analysis | Other information |
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|
| | | | | | | |

B9 – Insurance liabilities continued

There was also a £78 million reduction in net claim reserves relating to an outwards reinsurance contract completed by the UK General Insurance business.

(ii) Gross figures Before the effect of reinsurance, the loss development table is:

| Accident year | All prior years £m | 2008 £m | 2009 £m | 2010 £m | 2011 £m | 2012 £m | 2013 £m | 2014 £m | 2015 £m | 2016 £m | 2017 £m | Total £m |
|---------------------------------------|--------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|
| Gross cumulative claim payments | 2111 | 200 | 2111 | 2111 | 2111 | 200 | 200 | 2111 | 2111 | 2111 | 2111 | 2 |
| At end of accident year | | (4,915) | (3,780) | (3,502) | (3,420) | (3,055) | (3,068) | (3,102) | (2,991) | (3,534) | (3,517) | |
| One year later | | (7,350) | (5,464) | (5,466) | (4,765) | (4,373) | (4,476) | (4,295) | (4,285) | (4,972) | (0,011) | |
| Two years later | | (7,828) | (6,102) | (5,875) | (5,150) | (4,812) | (4,916) | (4,681) | (4,710) | (.,=.=) | | |
| Three years later | | (8,304) | (6,393) | (6,163) | (5,457) | (5,118) | (5,221) | (4,974) | (.,) | | | |
| Four years later | | (8,607) | (6,672) | (6,405) | (5,712) | (5,376) | (5,467) | ()- / | | | | |
| Five years later | | (8,781) | (6,836) | (6,564) | (5,864) | (5,556) | (, , | | | | | |
| Six years later | | (8,906) | (6,958) | (6,649) | (5,978) | , | | | | | | |
| Seven years later | | (8,986) | (7,043) | (6,690) | , | | | | | | | |
| Eight years later | | (9,012) | (7,078) | | | | | | | | | |
| Nine years later | | (9,033) | | | | | | | | | | |
| Estimate of gross ultimate claims | | | | | | | | | | | | |
| At end of accident year | | 9,508 | 7,364 | 6,911 | 6,428 | 6,201 | 6,122 | 5,896 | 5,851 | 6,947 | 6,894 | |
| One year later | | 9,322 | 7,297 | 7,006 | 6,330 | 6,028 | 6,039 | 5,833 | 5,930 | 6,931 | | |
| Two years later | | 9,277 | 7,281 | 6,950 | 6,315 | 6,002 | 6,029 | 5,865 | 5,912 | | | |
| Three years later | | 9,272 | 7,215 | 6,914 | 6,292 | 5,952 | 6,067 | 5,842 | | | | |
| Four years later | | 9,235 | 7,204 | 6,912 | 6,262 | 6,002 | 6,034 | | | | | |
| Five years later | | 9,252 | 7,239 | 6,906 | 6,265 | 5,979 | | | | | | |
| Six years later | | 9,213 | 7,217 | 6,926 | 6,265 | | | | | | | |
| Seven years later | | 9,207 | 7,256 | 6,913 | | | | | | | | |
| Eight years later | | 9,202 | 7,228 | | | | | | | | | |
| Nine years later | | 9,195 | | | | | | | | | | |
| Estimate of gross ultimate claims | | 9,195 | 7,228 | 6,913 | 6,265 | 5,979 | 6,034 | 5,842 | 5,912 | 6,931 | 6,894 | |
| Cumulative payments | | (9,033) | (7,078) | (6,690) | (5,978) | (5,556) | (5,467) | (4,974) | (4,710) | (4,972) | (3,517) | |
| | 2,516 | 162 | 150 | 223 | 287 | 423 | 567 | 868 | 1,202 | 1,959 | 3,377 | 11,734 |
| Effect of discounting | (397) | (14) | (14) | (25) | (2) | — | (1) | — | _ | _ | _ | (453) |
| Present value | 2,119 | 148 | 136 | 198 | 285 | 423 | 566 | 868 | 1,202 | 1,959 | 3,377 | 11,281 |
| Cumulative effect of foreign exchange | | | | | | | | | | | | • |
| movements | _ | (4) | _ | (1) | 3 | 8 | 18 | 48 | 145 | 2 | _ | 219 |
| Effect of acquisitions | 13 | 1 | 3 | 5 | 19 | 22 | 31 | 55 | 78 | 74 | _ | 301 |
| Present value recognised in the | | | | | | | | | | | | |
| statement of financial position | 2,132 | 145 | 139 | 202 | 307 | 453 | 615 | 971 | 1,425 | 2,035 | 3,377 | 11,801 |

| Overview Income & expenses IFRS Capital & liquidity Analysis of assets VNB & Sales analysis Other information | Overview | Income & expenses | IFRS | Capital & liquidity | Analysis of assets | VNB & Sales analysis | Other information |
|---|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|
|---|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|

B9 – Insurance liabilities continued

(iii) Net of reinsurance

After the effect of reinsurance, the loss development table is:

| Accident year | All prior years £m | 2008 £m | 2009 £m | 2010 £m | 2011 £m | 2012 £m | 2013 £m | 2014 £m | 2015 £m | 2016 £m | 2017 £m | Total £m |
|---------------------------------------|--------------------------|------------|------------|------------|------------|------------|---|------------|------------|------------|------------|-------------|
| Net cumulative claim payments | | | | | | | | | | | | |
| At end of accident year | | (4,808) | (3,650) | (3,386) | (3,300) | (2,925) | (2,905) | (2,972) | (2,867) | (3,309) | (3,483) | |
| One year later | | (7,165) | (5,286) | (5,242) | (4,578) | (4,166) | (4,240) | (4,079) | (4,061) | (4,591) | (-)) | |
| Two years later | | (7,638) | (5,885) | (5,637) | (4,963) | (4,575) | (4,649) | (4,432) | (4,452) | (, , | | |
| Three years later | | (8,094) | (6,177) | (5,905) | (5,263) | (4,870) | (4,918) | (4,720) | ()) | | | |
| Four years later | | (8,356) | (6,410) | (6,137) | (5,485) | (5,110) | (5,159) | ()) | | | | |
| Five years later | | (8,515) | (6,568) | (6,278) | (5,626) | (5,289) | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | | |
| Six years later | | (8,626) | (6,657) | (6,361) | (5,740) | , | | | | | | |
| Seven years later | | (8,682) | (6,708) | (6,411) | , | | | | | | | |
| Eight years later | | (8,714) | (6,744) | | | | | | | | | |
| Nine years later | | (8,735) | , | | | | | | | | | |
| Estimate of net ultimate claims | | | | | | | | | | | | |
| At end of accident year | | 9,262 | 7,115 | 6,650 | 6,202 | 5,941 | 5,838 | 5,613 | 5,548 | 6,489 | 6,714 | |
| One year later | | 9,104 | 7,067 | 6,751 | 6,103 | 5,765 | 5,745 | 5,575 | 5,635 | 6,458 | | |
| Two years later | | 9,028 | 7,036 | 6,685 | 6,095 | 5,728 | 5,752 | 5,591 | 5,608 | | | |
| Three years later | | 9,007 | 6,978 | 6,644 | 6,077 | 5,683 | 5,733 | 5,559 | | | | |
| Four years later | | 8,962 | 6,940 | 6,634 | 6,034 | 5,717 | 5,689 | | | | | |
| Five years later | | 8,949 | 6,977 | 6,614 | 6,005 | 5,680 | | | | | | |
| Six years later | | 8,926 | 6,908 | 6,624 | 6,003 | | | | | | | |
| Seven years later | | 8,894 | 6,897 | 6,615 | | | | | | | | |
| Eight years later | | 8,898 | 6,896 | | | | | | | | | |
| Nine years later | | 8,886 | | | | | | | | | | |
| Estimate of net ultimate claims | | 8,886 | 6,896 | 6,615 | 6,003 | 5,680 | 5,689 | 5,559 | 5,608 | 6,458 | 6,714 | |
| Cumulative payments | | (8,735) | (6,744) | (6,411) | (5,740) | (5,289) | (5,159) | (4,720) | (4,452) | (4,591) | (3,483) | |
| | 954 | 151 | 152 | 204 | 263 | 391 | 530 | 839 | 1,156 | 1,867 | 3,231 | 9,738 |
| Effect of discounting | (150) | (10) | (12) | (21) | 3 | _ | 5 | _ | _ | _ | _ | (185) |
| Present value | 804 | 141 | 140 | 183 | 266 | 391 | 535 | 839 | 1,156 | 1,867 | 3,231 | 9,553 |
| Cumulative effect of foreign exchange | | | | | | | | | | | - | |
| movements | _ | (4) | _ | (1) | 2 | 7 | 18 | 47 | 141 | 3 | _ | 213 |
| Effect of acquisitions | 17 | 1 | 3 | 5 | 19 | 22 | 31 | 56 | 79 | 73 | _ | 306 |
| Present value recognised in the | | | | | | | | | | | | |
| statement of financial position | 821 | 138 | 143 | 187 | 287 | 420 | 584 | 942 | 1,376 | 1,943 | 3,231 | 10,072 |

In the loss development tables shown above, the cumulative claim payments and estimates of cumulative claims for each accident year are translated into sterling at the exchange rates that applied at the end of that accident year. The impact of using varying exchange rates is shown at the bottom of each table. Disposals are dealt with by treating all outstanding and IBNR claims of the disposed entity as 'paid' at the date of disposal.

The loss development tables above include information on asbestos and environmental pollution claims provisions from business written before 2008. The undiscounted claim provisions, net of reinsurance, in respect of this business at 31 December 2017 were £95 million (*2016: £134 million*). The movement in the year reflects a reduction of £14 million due to favourable claims development, claim payments net of reinsurance recoveries and foreign exchange rate movements.

(e) Provision for unearned premiums

Movements

The following changes have occurred in the provision for unearned premiums (UPR) during the year:

| | 2017 £m | 2016 £m |
|---|--------------------|------------------|
| Carrying amount at 1 January | 4,766 | 4,048 |
| Premiums written during the year Less: Premiums earned during the year | 10,523 (10,365) | 9,694 (9,503) |
| Changes in UPR recognised as an (income)/expense Gross portfolio transfers and acquisitions ¹ | 158 46 | 191 124 |
| Foreign exchange rate movements Carrying amount at 31 December | <u>10</u> 4,980 | 403 4,766 |

1 The £46 million in respect of 2017 relates to the full consolidation of the Poland Joint Venture. The £124 million in respect of 2016 relates to the acquisition of Royal Bank of Canada General Insurance Company.

| Overview | Income & expenses | IFRS | Capital & liquidity | Analysis of assets | VNB & Sales analysis | Other information |
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|

B10 – Liability for investment contracts

This note analyses our investment contract liabilities by type of product and describes how the Group calculates these liabilities and the assumptions used.

(a) Carrying amount

The liability for investment contracts (gross of reinsurance) at 31 December comprised:

| | 2017 £m | 2016 £m |
|---|------------|------------|
| Long-term business | | |
| Participating contracts | 87,654 | 89,739 |
| Non-participating contracts at fair value | 124,995 | 114,531 |
| Total | 212,649 | 204,270 |
| Less: Amounts classified as held for sale | (8,663) | (7,175) |
| | 203,986 | 197,095 |

(b) Long-term business investment liabilities

Investment contracts are those that do not transfer significant insurance risk from the contract holder to the issuer, and are therefore treated as financial instruments under IFRS.

Many investment contracts contain a discretionary participation feature in which the contract holder has a contractual right to receive additional benefits as a supplement to guaranteed benefits. These are referred to as participating contracts and are measured according to the methodology and Group practice for long-term business liabilities. They are not measured at fair value as there is currently no agreed definition of fair valuation for discretionary participation features under IFRS. In the absence of such a definition, it is not possible to provide a range of estimates within which a fair value is likely to fall. The IASB deferred consideration of participating contracts to Phase II of its insurance contracts project. This is addressed in the insurance contract standard (i.e. IFRS 17).

For participating business, the discretionary participation feature is recognised separately from the guaranteed element and is classified as a liability, referred to as unallocated divisible surplus.

Investment contracts that do not contain a discretionary participation feature are referred to as non-participating contracts and the liability is measured at either fair value or amortised cost. We currently have no non-participating investment contracts measured at amortised cost.

Of the non-participating investment contracts measured at fair value, £123,916 million in 2017 are unit-linked in structure and the fair value liability is equal to the current unit fund value, including any unfunded units, plus if required, additional non-unit reserves based on a discounted cash flow analysis. These contracts are generally classified as 'Level 1' in the fair value hierarchy, as the unit reserve is calculated as the publicly quoted unit price multiplied by the number of units in issue, and any non-unit reserve is insignificant.

For unit-linked business, a deferred acquisition cost asset and deferred income reserve liability are recognised in respect of transaction costs and front-end fees respectively, that relate to the provision of investment management services, and which are amortised on a systematic basis over the contract term.

For non-participating investment contracts acquired in a business combination, an acquired value of in-force business asset is recognised in respect of the fair value of the investment management services component of the contracts, which is amortised on a systematic basis over the useful lifetime of the related contracts.

For non-participating investment contracts, deposits collected and amounts withdrawn are not shown on the income statement. but are accounted for directly through the statement of financial position as an adjustment to the gross liabilities for investment contracts. The associated change in investment contract provisions shown on the income statement consists of the attributed investment return. Participating investment contracts are treated consistently with insurance contracts with the change in investment contract provisions primarily consisting of the movement in participating investment contract liabilities (net of reinsurance) over the reporting period.

(c) Movements in the year

The following movements have occurred in the gross provisions for investment contracts in the year:

(i) Participating investment contracts

| | 2017 £m | 2016 £m |
|--|------------|------------|
| Carrying amount at 1 January | 89,739 | 78,048 |
| Provisions in respect of new business | 5,193 | 4,584 |
| Expected change in existing business provisions | (4,986) | (4,893) |
| Variance between actual and expected experience | 2,072 | 3,084 |
| Impact of non-economic assumption changes | 10 | 36 |
| Impact of economic assumption changes | 411 | 450 |
| Other movements recognised as an expense ¹ | (16) | (347) |
| Change in liability recognised as an expense ² | 2,684 | 2,914 |
| Effect of portfolio transfers, acquisitions and disposals ³ | (7,243) | _ |
| Foreign exchange rate movements | 2,452 | 8,721 |
| Other movements | 22 | 56 |
| Carrying amount at 31 December | 87,654 | 89,739 |

Other movements during 2017 primarily relates to a special bonus distribution to UK with-profits policyholders

Total interest expense for participating investment contracts recognised in profit or loss is £2,489 million (2016: £3,111 million). The movement during 2017 relates to the disposal of Antarius in France.

| Overview | Income & expenses | IFRS | Capital & liquidity | Analysis of assets | VNB & Sales analysis | Other information |
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|
| | | | | | | |

B10 - Liability for investment contracts continued

For many types of long-term business, including unit-linked and participating funds, movements in asset values are offset by corresponding changes in liabilities, limiting the net impact on profit.

The variance between actual and expected experience in 2017 of £2.1 billion is primarily driven by favourable equity returns in the UK. The impact of assumption changes in the analysis shows the resulting movement in the carrying value of participating investment contract liabilities. For participating business, a movement in liabilities is generally offset by a corresponding adjustment to the unallocated

divisible surplus and does not impact profit.

(ii) Non-participating investment contracts

| | 2017 £m | 2016 £m |
|--|------------|------------|
| Carrying amount at 1 January | 114,531 | 103,034 |
| Provisions in respect of new business | 4,484 | 3,222 |
| Expected change in existing business provisions | (4,427) | (3,481) |
| Variance between actual and expected experience | 10,115 | 11,105 |
| Impact of non-economic assumption changes | 2 | 17 |
| Impact of economic assumption changes | (1) | 2 |
| Other changes in liabilities | 10 | 334 |
| Change in liability | 10,183 | 11,199 |
| Effect of portfolio transfers, acquisitions and disposals ¹ | (4) | (757) |
| Foreign exchange rate movements | 277 | 1,065 |
| Other movements | 8 | (10) |
| Carrying amount at 31 December | 124,995 | 114,531 |

1 The movement during 2017 relates to the disposal of Antarius in France. The movement during 2016 relates to the disposal of a closed book of offshore bonds business.

For unit-linked investment contracts, movements in asset values are offset by corresponding changes in liabilities, limiting the net impact on profit. The variance between actual and expected experience in 2017 of £10 billion is primarily driven by the impact of positive equity returns in the UK.

The impact of assumption changes in the above analysis shows the resulting movement in the carrying value of non-participating investment contract liabilities. The impacts of assumption changes on profit are included in the effect of changes in assumptions and estimates during the year, which combines participating and non-participating investment contracts together with the impact of movements in related non-financial assets.

B11 – Reinsurance assets

This note details the reinsurance recoverables on our insurance and investment contract liabilities.

(a) Carrying amounts

The reinsurance assets at 31 December comprised:

| | 2017 £m | 2016 £m |
|--|--|------------|
| Long-term business | | |
| Insurance contracts | 5,469 | 6,186 |
| Participating investment contracts | 2 | 2 |
| Non-participating investment contracts ¹ | 6,094 | 18,366 |
| | 11,565 | 24,554 |
| Outstanding claims provisions | 64 | 65 |
| | 11,629 | 24,619 |
| General insurance and health | | |
| Outstanding claims provisions ² | 845 | 1,090 |
| Provisions for claims incurred but not reported ² | 884 | 795 |
| | 1,729 | 1,885 |
| Provisions for unearned premiums | s 5,46 hent contracts vestment contracts ¹ 6,09 11,56 provisions 6 11,62 and health provisions ² 84 incurred but not reported ³ 84 incurred but not reporte | 250 |
| | 1,986 | 2,135 |
| | 13,615 | 26,754 |
| Less: Amounts classified as held for sale | (123) | (411) |
| Total | 13,492 | 26,343 |

Balances in respect of all reinsurance treaties are included under reinsurance assets, regardless of whether they transfer significant insurance risk. The reinsurance assets classified as non-participating investment contracts are financial instruments measured at fair value through profit or loss. During 2017, £14,353 million of reinsurance assets (UK Life) have been reclassified as collective investments in unit-linked funds following a restructure of a reinsurance treaty. 1

Reinsurance assets at 31 December 2016 for General insurance and health business include the impact of the £78 million reinsurance asset relating to an outwards reinsurance contract completed by the UK General Insurance business and the re ng recoveries expected in respect of the Alberta fires in Canada

Of the above total, £12,302 million (2016: £22,919 million) is expected to be recovered more than one year after the statement of financial position date.

(b) Assumptions

The assumptions, including discount rates, used for reinsurance contracts follow those used for insurance contracts. Reinsurance assets are valued net of an allowance for their recoverability.

(c) Movements

The following movements have occurred in the reinsurance assets during the year:

(i) In respect of long-term business provisions

| | 2017 £m | 2016 £m |
|--|--|--------------|
| Carrying amount at 1 January | 24,554 | 18,996 |
| Assets in respect of new business | 1,004 | 941 |
| Expected change in existing business assets | (786) | 300 |
| Variance between actual and expected experience | 2,264 | 3,149 |
| Impact of non-economic assumption changes | (634) | (182) |
| Impact of economic assumption changes | 94 | 171 |
| Other movements ¹ | (14,529) | 1,003 |
| Change in assets ² | (12,587) | 5,382 |
| Effect of portfolio transfers, acquisitions and disposals ³ | (410) | 8 |
| Foreign exchange rate movements | 8 | 168 |
| Carrying amount at 31 December | 11,565 | 24,554 |
| The movement during 2016 includes the reclassification of UK Life investments in certain life insurance funds from unit trusts and other | investment vehicles (financial instruments) to reinsurance assets. The mov | omont during |

2017 includes £14,353 million of reinsurance assets (UK Life) being reclassified as collective investments in unit-linked funds following a restructure of a reinsurance treaty. Change in assets does not reconcile with values in note B9(a)(ii) due to the inclusion of reinsurance assets classified as non-participating investment contracts, where, for such contracts, deposit accounting is applied on the

2 income statement.

3 The movement during 2016 relates to the recognition of a reinsurance asset following disposal of a closed book of offshore bonds business. The movement during 2017 primarily relates to Antarius in France.

The impact of assumption changes in the above analysis shows the resulting movement in the carrying value of reinsurance assets and mainly relates to business in the UK, with corresponding movements in gross insurance contract liabilities. For participating businesses, a movement in reinsurance assets is generally offset by a corresponding adjustment to the unallocated divisible surplus and does not impact profit.

| Overview | Income & expenses | IFRS | Capital & liquidity | Analysis of assets | VNB & Sales analysis | Other information |
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|
| | | | | | | |

B11 – Reinsurance assets continued (ii) In respect of general insurance and health outstanding claims provisions and IBNR

| | 2017 £m | 2016 £m |
|---|------------|------------|
| Carrying amount at 1 January | 1,885 | 1,595 |
| Impact of changes in assumptions | (15) | 80 |
| Reinsurers' share of claim losses and expenses | | |
| Incurred in current year | 179 | 433 |
| Incurred in prior years ¹ | 15 | 109 |
| Reinsurers' share of incurred claim losses and expenses | 194 | 542 |
| Less: | | |
| Reinsurance recoveries received on claims | | |
| Incurred in current year | (32) | (195) |
| Incurred in prior years | (293) | (214) |
| Reinsurance recoveries received in the year | (325) | (409) |
| Unwind of discounting | 8 | 9 |
| Change in reinsurance asset recognised as income (note B9(a)(ii)) | (138) | 222 |
| Effect of portfolio transfers, acquisitions and disposals | _ | (25) |
| Foreign exchange rate movements | (18) | 97 |
| Other movements | _ | (4) |
| Carrying amount at 31 December | 1,729 | 1,885 |

1 The change in reinsurance assets for 2016 includes the impact of the £78 million reinsurance asset relating to an outwards reinsurance contract completed by the UK General Insurance business.

(iii) Reinsurers' share of the provision for UPR

| | 2017 £m | 2016 £m |
|---|------------|------------|
| Carrying amount at 1 January | 250 | 289 |
| Premiums ceded to reinsurers in the year ¹ | 489 | 668 |
| Less: Reinsurers' share of premiums earned during the year ¹ | (484) | (687) |
| Changes in reinsurance asset recognised as income | 5 | (19) |
| Reinsurers' share of portfolio transfers and acquisitions | _ | (38) |
| Foreign exchange rate movements | 2 | 18 |
| Other movements | _ | _ |
| Carrying amount at 31 December | 257 | 250 |

1 For 2016 includes £107 million of ceded premiums relating to an outwards reinsurance contract completed by the UK General Insurance business.

| Overview | Income & expenses | IFRS | Capital & liquidity | Analysis of assets | VNB & Sales analysis | Other information |
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|

B12 – Effect of changes in assumptions and estimates during the year

Certain estimates and assumptions used in determining our liabilities for insurance and investment contract business were changed from 2016 to 2017, affecting the profit recognised for the year with an equivalent effect on liabilities. This note analyses the effect of the changes. This note only allows for the impact on liabilities and related assets, such as unallocated divisible surplus, reinsurance, deferred acquisition costs and AVIF, and does not allow for offsetting movements in the value of backing financial assets.

| | Effect on profit 2017 | Effect on profit 2016 |
|---|--------------------------|--------------------------|
| | £m | £m |
| Assumptions | | |
| Long-term insurance business | | |
| Interest rates | (1,720) | (4,490) |
| Expenses | (128) | 48 |
| Persistency rates | (79) | (80) |
| Mortality and morbidity for assurance contracts | 113 | (11) |
| Mortality for annuity contracts | 779 | 294 |
| Tax and other assumptions | 2 | 97 |
| Investment contracts | | |
| Expenses | _ | _ |
| General insurance and health business | | |
| Change in discount rate assumptions | (7) | (242) |
| Change in expense ratio and other assumptions | <u> </u> | |
| Total | (1,040) | (4,384) |

The impact of interest rates on long-term business relates primarily to annuities in the UK (including any change in credit default and reinvestment risk provisions), where a decrease in the valuation interest rate, in response to narrowing of credit spreads is partially offset by increasing risk-free rates, has increased liabilities. Within the UK there were also two modelling changes which resulted in a reduction in reserves: an alignment of approach in calculating the valuation interest rate across the Life portfolios of £153 million and a refinement to the approach to calculating the valuation interest rate for certain deferred annuity business of £136 million. Outside of the UK, there was a one-off impact in France due to an increase in life annuity pension reserves, resulting from a reduction to the discount rate cap used in the calculation of these reserves of £138 million. The overall impact on profit also depends on movements in the value of assets backing the liabilities, which is not included in this disclosure.

The impact of expenses on long-term business has resulted in an increase in reserves, following a review of recent experience. In the UK this includes a strengthening of maintenance expense reserves from harmonising the UK expense basis following the Friends Life Part VII transfer in 2017 of £89 million (2016: £nil); recognition of future project expense reserves of £125 million (*2016: £nil*); partly offset by a release due to updating the charging structure in place with Aviva Investors following the Friends Life integration of £70million (*2016: £42 million*) (*and other less significant adverse movements of £13 million in 2016*). Across Europe and Asia, expense reserves have reduced by £16 million (*2016: £19 million*).

The impact of persistency rates on long-term business has resulted in an increase in reserves following a review of recent experience in the UK.

The impact of mortality and morbidity for assurance contracts on long-term business has resulted in a reduction in reserves following a review of recent experience, most notably for critical illness in the UK.

The impact of mortality for annuitant contracts on long-term business relates primarily to the UK. In 2017, this has resulted in a reduction in reserves due to recognition of benefits from changes in longevity assumptions including: the impact of completing our review of the allowance for anti-selection risk of £170 million, updates reflecting our recent experience of £200 million, updates to the rate of historic and future mortality improvements, including the adoption of CMI 2016, of £340 million, and other less significant movements of £31 million. In Ireland there was a reduction of £38 million following a review of recent experience.

In 2016 there was a release of annuitant reserves in the UK following a review of recent experience (including the exposure to antiselection risk) of £130 million, the adoption of CMI 2015 mortality improvement assumptions of £153 million and other less significant movements of £11 million.

In the general insurance and health business, an adverse impact of £7 million (2016: £242 million adverse) mainly arises as a result of a slight decrease in the estimated future inflation rate used to value periodic payment orders, offset by a slight decrease in the interest rates used to discount claim reserves for periodic payment orders and latent claims. During 2016 market interest rates used to discount periodic payment orders and latent claims reduced and the estimated future inflation rate used to value periodic payment orders was increased to be consistent with market expectations. This was, in part, offset by a change in estimate for the interest rate used to discount periodic payment orders to allow for the illiquid nature of these liabilities.

| Overview | Income & expenses | IFRS | Capital & liquidity | Analysis of assets | VNB & Sales analysis | Other information |
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|
| | | | | | | |

B13 – Unallocated divisible surplus

An unallocated divisible surplus (UDS) is established where the nature of policy benefits is such that the division between shareholder reserves and policyholder liabilities is uncertain at the reporting date. Therefore the expected duration for settlement of the UDS is not defined.

This note shows the movements in the UDS during the year.

| | 2017 £m | 2016 £m |
|---|------------|------------|
| Carrying amount at 1 January | 10,208 | 8,811 |
| Change in participating fund assets | 406 | 4,977 |
| Change in participating fund liabilities | (710) | (4,596) |
| Other movements | 10 | — |
| Change in liability recognised as an expense | (294) | 381 |
| Effect of portfolio transfers, acquisition and disposals ¹ | (1,076) | _ |
| Foreign exchange rate movements | 263 | 1,016 |
| Carrying amount at 31 December | 9,101 | 10,208 |
| Less: Amounts classified as held for sale | (19) | (859) |
| | 9,082 | 9,349 |

1 The movement during 2017 relates to the disposal of Antarius (£832 million) and majority of Spanish business (£244 million).

The amount of UDS at 31 December 2017 has decreased to £9.1 billion (20*16: £10.2 billion*) including amounts classified as held for sale, and £9.1 billion (*2016: £9.3 billion*) excluding amounts classified as held for sale. The decrease is mainly due to the sale of both Antarius and the majority of Spanish business and a distribution of assets out of UK Life's UDS in anticipation of a special bonus to policyholders, partly offset by the weakening of sterling against the euro.

The participating assets and liabilities have offsetting impacts across the UK and Europe in 2017. In Europe they have increased mainly driven by an increase in new business and in the UK they have reduced, mainly driven by an increase in bond yields and the distribution of assets. In 2016, the impacts did not offset. The participating assets and liabilities increased across all the markets mainly driven by an increase in new business in Europe and a decrease in bond yields in the UK.

Where the aggregate amount of participating assets is less than the participating liabilities within a fund then the shortfall may be held as negative UDS, subject to recoverability testing as part of the liability adequacy requirements of IFRS 4. There are no material negative UDS balances at the participating fund-level within each life entity in the current and comparative periods, with the exception of one fund in UK Life in the comparative period (*2016: a negative UDS of £16 million*). This negative UDS balance was tested for recoverability and considered to be recoverable by comparing the excess of IFRS participating liabilities over the adjusted Solvency II best estimate liabilities for the relevant contracts. The Solvency II best estimate liabilities were adjusted where Solvency II does not represent a best estimate of shareholders' interests consistent with the impairment test for goodwill for long-term business and for AVIF on insurance contracts.

B14 – Borrowings

Our borrowings are classified as either core structural borrowings, which are included within the Group's capital employed, or operational borrowings drawn by operating subsidiaries. This note shows the carrying values and contractual maturity amounts of each type, and explains their main features and movements during the year.

(a) Analysis of total borrowings

Total borrowings comprise:

| | 2017 £m | 2016 £m |
|---|------------|------------|
| Core structural borrowings, at amortised cost | 8,640 | 8,577 |
| Operational borrowings, at amortised cost | 466 | 608 |
| Operational borrowings, at fair value | 1,180 | 1,110 |
| | 1,646 | 1,718 |
| | 10,286 | 10,295 |

(b) Movements during the year

Movements in borrowings during the year were:

| | | 2017 | | | | |
|--|--------------------------|---|---|--------------------------------|---------------------------------------|------------------------------------|
| | Core Structural £m | Operational £m | Total £m | Core Structural £m | Operational £m | Total £m |
| New borrowings drawn down, excluding commercial paper, net of expenses Repayment of borrowings, excluding commercial paper ¹ Movement in commercial paper ² | (488) | 55 (151) — | 55 (639) — | 1,372 (320) 42 | 148 (56) | 1,520 (376) 42 |
| Net cash inflow/(outflow) Foreign exchange rate movements Borrowings reclassified/(loans repaid) for non-cash consideration ¹ Fair value movements Amortisation of discounts and other non-cash items Movements in debt held by Group companies ³ | (488) 104 484 | (96) (17) (13) 108 (16) (38) | (584) 87 471 108 (53) (38) | 1,094 574 (34) 31 | 92 33 (220) (16) (29) | 1,186 607 (220) (50) 2 |
| Movements in the year Balance at 1 January | 63 8,577 | (72) 1,718 | (9) 10,295 | 1,665 6,912 | (140) 1,858 | 1,525 8,770 |
| Balance at 31 December | 8,640 | 1,646 | 10,286 | 8,577 | 1,718 | 10,295 |

1 On 28 September 2017, notification was given that the Group would redeem the \$650 million fixed rate tier 1 notes. At that date, the instrument was reclassified as a financial liability of £484 million, representing its fair value on translation into sterling at that date. On 3 November 2017 the instrument was redeemed in full at a cost of £488 million. See note B18 for further details.

Gross issuances of commercial paper were £1,265 million in 2017 (2016: £2,006 million), offset by repayments of £1,265 million (2016: £1,964 million).
 Certain subsidiary companies have purchased issued subordinated notes and securitised loan notes as part of their investment portfolios. In the consolidated statement of financial position, borrowings are shown net of these holdings but movements in such holdings over the year are reflected in the tables above.

All movements in fair value in 2016 and 2017 on securitised mortgage loan notes designated as fair value through profit or loss were attributable to changes in market conditions.

| Overview Income & expenses IFRS Capital & liquidity Analysis of assets VNB & Sales analysis Other informatio | | Overview | Income & expenses | IFRS | Capital & liquidity | Analysis of assets | VNB & Sales analysis | Other information | I |
|--|--|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|---|
|--|--|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|---|

B15 – Pension obligations

The Group operates a number of defined benefit and defined contribution pension schemes. The material defined benefit schemes are in the UK, Ireland and Canada with the main UK scheme being the largest. The assets and liabilities of these defined benefit schemes as at 31 December 2017 are shown below.

| | | | | 2017 | | | | 2016 |
|--|--------------------|---------------|--------------|--------------------|--------------------|---------------|--------------|--------------------|
| | UK £m | Ireland £m | Canada £m | Total £m | UK £m | Ireland £m | Canada £m | Total £m |
| Total fair value of scheme assets Present value of defined benefit obligation | 17,744 (14,824) | 658 (847) | 276 (372) | 18,678 (16,043) | 18,803 (16,131) | 610 (848) | 281 (368) | 19,694 (17,347) |
| Net IAS 19 surpluses/(deficits) in the schemes | 2,920 | (189) | (96) | 2,635 | 2,672 | (238) | (87) | 2,347 |
| Surpluses included in other assets Deficits included in provisions | 3,399 (479) | (189) | (96) | 3,399 (764) | 3,190 (518) | (238) | (87) | 3,190 (843) |
| Net IAS 19 surpluses/(deficits) in the schemes | 2,920 | (189) | (96) | 2,635 | 2,672 | (238) | (87) | 2,347 |

| Overview | Income & expenses | IFRS | Capital & liquidity | Analysis of assets | VNB & Sales analysis | Other information |
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|
| | | | | | | |

B15 – Pension obligations continued Movements in the scheme surpluses and deficits Movements in the pension schemes' surpluses and deficits comprise:

| 2017 | Fair Value of Scheme Assets £m | Present Value of defined benefit obligation £m | IAS 19 Pensions net surplus/ (deficits) £m |
|--|---|--|--|
| Net IAS 19 surplus in the schemes at 1 January | 19,694 | (17,347) | 2,347 |
| Past service costs - amendments | _ | (1) | (1) |
| Administrative expenses ¹ | - | (18) | (18) |
| Total pension cost charged to net operating expenses | _ | (19) | (19) |
| Net interest credited/(charged) to investment income /(finance costs) ² | 470 | (407) | 63 |
| Total recognised in income | 470 | (426) | 44 |
| Remeasurements: | | | |
| Actual return on these assets | 740 | _ | 740 |
| Less: Interest income on scheme assets | (470) | _ | (470) |
| Return on scheme assets excluding amounts in interest income | 270 | _ | 270 |
| Losses from change in financial assumptions | - | (182) | (182) |
| Losses from change in demographic assumptions | - | (30) | (30) |
| Experience losses | _ | (63) | (63) |
| Total recognised in other comprehensive income | 270 | (275) | (5) |
| Employer contributions | 259 | _ | 259 |
| Plan participant contributions | 9 | (9) | _ |
| Benefits paid | (2,021) | 2,021 | - |
| Administrative expenses paid from scheme assets ¹ | (21) | 18 | (3) |
| Foreign exchange rate movements | 18 | (25) | (7) |
| Net IAS 19 surplus in the schemes at 31 December | 18,678 | (16,043) | 2,635 |
| 1 Administrative evonesses are evonesed as incurred | | | |

Administrative expenses are expensed as incurred.
 Net interest income of £87 million has been credited to investment income and net interest expense of £24 million has been charged to finance costs.

The increase in the net surplus during the period is primarily due to employer contributions paid into the schemes.

| 2016 | Fair Value of Scheme Assets £m | Present Value of defined benefit obligation £m | IAS 19 Pensions net surplus/ (deficits) £m |
|---|---|--|--|
| Net IAS 19 surplus in the schemes at 1 January Past service costs - amendments Administrative expenses ¹ | 16,161 — — | (14,324) (1) (13) | 1,837 (1) (13) |
| Total pension cost charged to net operating expenses Net interest credited/(charged) to investment income /(finance costs) ² | 590 | (14) (517) | (14) 73 |
| Total recognised in income | 590 | (531) | 59 |
| Remeasurements: Actual return on these assets Less: Interest income on scheme assets | 4,044 (590) | | 4,044 (590) |
| Return on scheme assets excluding amounts in interest income Losses from change in financial assumptions Gains from change in demographic assumptions Experience gains | 3,454 | (3,944) 363 438 | 3,454 (3,944) 363 438 |
| Total recognised in other comprehensive income | 3,454 | (3,143) | 311 |
| Employer contributions Plan participant contributions Benefits paid Administrative expenses paid from scheme assets ¹ Foreign exchange rate movements | 190 6 (825) (15) 133 | — (6) 825 13 (181) | 190 — (2) (48) |
| Net IAS 19 surplus in the schemes at 31 December | 19,694 | (17,347) | 2,347 |

Administrative expenses are expensed as incurred.
 Net interest income of £102 million has been credited to investment income and net interest expense of £29 million has been charged to finance costs.

| Overview Income & expenses IFRS Capital & liquidity Analysis of assets VNB & Sales analysis Other information | IFRS Capital & liquidity Analysis of assets VNB & Sales analysis Other in | Analysis of assets | Capital & liquidity | IFRS | Income & expenses | Overview |
|---|---|--------------------|---------------------|------|-------------------|----------|
|---|---|--------------------|---------------------|------|-------------------|----------|

B16 – Related party transactions

This note gives details of the transactions between Group companies and related parties which comprise our joint ventures, associates and staff pension schemes.

The Group undertakes transactions with related parties in the normal course of business. Loans to related parties are made on normal arm's-length commercial terms.

Services provided to, and by related parties

| | | | | 2017 £m | | | | 2016 £m |
|--------------------------|------------------------------------|---|------------------------------|---------------------------------|------------------------------------|-----|------------------------------|---------------------------------|
| | Income earned in the year £m | Expenses incurred in the year £m | Payable at year end £m | Receivable at year end £m | Income earned in the year £m | | Payable at year end £m | Receivable at year end £m |
| Associates | 4 | (4) | _ | _ | 4 | (3) | — | _ |
| Joint ventures | 49 | _ | _ | 2 | 46 | _ | — | 2 |
| Employee pension schemes | 12 | _ | _ | 14 | 16 | _ | _ | 5 |
| | 65 | (4) | _ | 16 | 66 | (3) | | 7 |

Transactions with joint ventures in the UK relate to the property management undertakings. The Group has equity interests in these joint ventures, together with the provision of administration services and financial management to many of them. Our fund management companies also charge fees to these joint ventures for administration services and for arranging external finance.

Key management personnel of the Company may from time to time purchase insurance, savings, asset management or annuity products marketed by group companies on equivalent terms to those available to all employees of the Group. In 2017, other transactions with key management personnel were not deemed to be significant either by size or in the context of their individual financial positions.

Our UK fund management companies manage most of the assets held by the Group's main UK staff pension scheme, for which they charge fees based on the level of funds under management. The main UK scheme holds investments in Group-managed funds and insurance policies with other group companies. As at 31 December 2017, the Friends Provident Pension Scheme ('FPPS'), acquired in 2015 as part of the acquisition of the Friends Life business, held an insurance policy of £630 million (2016: £633 million) issued by a group company, which eliminates on consolidation.

The related parties' receivables are not secured and no guarantees were received in respect thereof. The receivables will be settled in accordance with normal credit terms.

B17 – Risk management

This note sets out the major risks our businesses and our shareholders face and describes the Group's approach to managing these. It also gives sensitivity analyses around the major economic and non-economic assumptions that can cause volatility in the Group's earnings and capital position.

(a) Risk management framework

The risk management framework in Aviva forms an integral part of the management and Board processes and decision-making framework across the Group. The key elements of our risk management framework comprise risk appetite; risk governance, including risk policies and business standards, risk oversight committees and roles and responsibilities; and the processes we use to identify, measure, manage, monitor and report risks, including the use of our risk models and stress and scenario testing.

For the purposes of risk identification and measurement, and aligned to Aviva's risk policies, risks are usually grouped by risk type: credit, market, liquidity, life insurance (including long-term health), general insurance (including short-term health), asset management and operational risk. Risks falling within these types may affect a number of metrics including those relating to balance sheet strength, liquidity and profit. They may also affect the performance of the products we deliver to our customers and the service to our customers and distributors, which can be categorised as risks to our brand and reputation or as conduct risk.

To promote a consistent and rigorous approach to risk management across all businesses we have a set of risk policies and business standards which set out the risk strategy, appetite, framework and minimum requirements for the Group's worldwide operations. The business chief executive officers make an annual declaration supported by an opinion from the business chief risk officers that the system of governance and internal controls was effective and fit for purpose for their business throughout the year.

A regular top-down key risk identification and assessment process is carried out by the risk function. This includes the consideration of emerging risks and is supported by deeper thematic reviews. This process is replicated at the business unit level. The risk assessment processes are used to generate risk reports which are shared with the relevant risk committees.

Risk models are an important tool in our measurement of risks and are used to support the monitoring and reporting of the risk profile and in the consideration of the risk management actions available. We carry out a range of stress (where one risk factor, such as equity returns, is assumed to vary) and scenario (where combinations of risk factors are assumed to vary) tests to evaluate their impact on the business and the management actions available to respond to the conditions envisaged. For those risk types managed through the holding of capital, being our principal risk types except for liquidity risk, we measure and monitor our risk profile on the basis of the Solvency II solvency capital requirement.

Roles and responsibilities for risk management in Aviva are based around the 'three lines of defence model' where ownership for risk is taken at all levels in the Group. Line management in the business is accountable for risk management, including the implementation of the risk management framework and embedding of the risk culture. The risk function is accountable for quantitative and qualitative oversight and challenge of the risk identification, measurement, monitoring, management and reporting processes and for developing the risk management framework. Internal Audit provides an independent assessment of the risk framework and internal control processes.

B17 - Risk management continued

Board oversight of risk and risk management across the Group is maintained on a regular basis through its Risk Committee and Governance Committee. The Board has overall responsibility for determining risk appetite, which is an expression of the risk the business is willing to take. Risk appetites are set relative to capital and liquidity at Group and in the business units.

Risk appetites, requiring management action if breached, are also set for interest rate and foreign exchange risk (calculated on the basis of the Solvency II solvency capital requirement), and liquidity risk (based on stressing forecast central liquid assets and cash inflows and outflows over a specified time horizon). For other risk types the Group sets Solvency II capital tolerances. The Group's position against risk appetite and capital tolerances is monitored and reported to the Board on a regular basis. Long-term sustainability depends upon the protection of franchise value and good customer relationships. As such, Aviva has a risk preference that we will not accept risks that materially impair the reputation of the Group and requires that customers are always treated with integrity. The oversight of risk and risk management at the Group level is supported by the Asset Liability Committee, which focuses on business and financial risks, and the Operational Risk Committee which focuses on operational and reputational risks. Similar committee structures with equivalent terms of reference exist in the business units.

The risk management framework of a small number of our joint ventures and strategic equity holdings differs from the Aviva framework outlined in this note. We work with these entities to understand how their risks are managed and to align them, where possible, with Aviva's framework.

Further information on the types and management of specific risk types is given in sections (b) to (j) below.

(b) Credit risk

Credit risk is the risk of financial loss as a result of the default or failure of third parties to meet their payment obligations to Aviva, or variations in market values as a result of changes in expectations related to these risks. Credit risk is taken so that we can provide the returns required to satisfy policyholder liabilities and to generate returns for our shareholders. In general we prefer to take credit risk over equity and property risks, due to the better expected risk adjusted return, our credit risk analysis capability and the structural investment advantages conferred to insurers with long-dated, relatively illiquid liabilities.

Our approach to managing credit risk recognises that there is a risk of adverse financial impact resulting from fluctuations in credit quality of third parties including default, rating transition and credit spread movements. Our credit risks arise principally through exposures to debt security investments, structured asset investments, bank deposits, derivative counterparties, mortgage lending and reinsurance counterparties.

The Group manages its credit risk at business unit and Group level. All business units are required to implement credit risk management processes (including limits frameworks), operate specific risk management committees, and ensure detailed reporting and monitoring of their exposures against pre-established risk criteria. At Group level, we manage and monitor all exposures across our business units on a consolidated basis, and operate a Group limit framework that must be adhered to by all.

A detailed breakdown of the Group's current credit exposure by credit quality is shown below.

(i) Financial exposures by credit ratings

Financial assets are graded according to current external credit ratings issued. AAA is the highest possible rating. Investment grade financial assets are classified within the range of AAA to BBB ratings. Financial assets which fall outside this range are classified as sub-investment grade. The following table provides information regarding the aggregated credit risk exposure of the Group for financial assets with external credit ratings. 'Not rated' assets capture assets not rated by external ratings agencies.

| As at 31 December 2017 | AAA | AA | A | BBB | Below BBB | Not rated | including held for sale | Less: Amounts classified as held for sale £m | Carrying value £m |
|------------------------|-------|-------|-------|-------|-----------|-----------|----------------------------|---|----------------------|
| Debt securities | 10.6% | 32.5% | 20.0% | 23.3% | 7.8% | 5.8% | 175,948 | (1,140) | 174,808 |
| Reinsurance assets | _ | 87.3% | 8.2% | 1.9% | _ | 2.6% | 13,615 | (123) | 13,492 |
| Other investments | _ | 0.2% | 0.3% | 0.1% | _ | 99.4% | 53,277 | (6,971) | 46,306 |
| Loans | _ | 7.1% | — | _ | _ | 92.9% | 27,863 | (6) | 27,857 |
| Total | | | | | | | 270,703 | (8,240) | 262,463 |
| | | | | | | | Carrying value | Less: Amounts | |
| | | | | | | | including held for sale | classified as held for sale | Carrying value |

| As at 31 December 2016 ¹ | AAA | AA | A | BBB | Below BBB | Not rated | including held for sale £m | classified as held for sale £m | Carrying value £m |
|-------------------------------------|-------|-------|-------|-------|-----------|-----------|----------------------------------|--------------------------------------|----------------------|
| | | | | | | | | | |
| Debt securities | 11.8% | 33.4% | 19.0% | 23.9% | 6.0% | 5.9% | 186,708 | (7,738) | 178,970 |
| Reinsurance assets | _ | 92.0% | 6.3% | 0.1% | _ | 1.6% | 26,754 | (411) | 26,343 |
| Other investments | — | 0.2% | 0.6% | _ | — | 99.2% | 51,127 | (2,304) | 48,823 |
| Loans | _ | 8.0% | _ | 0.1% | _ | 91.9% | 24,859 | (75) | 24,784 |
| Total | | | | | | | 289,448 | (10,528) | 278,920 |

1 Following a review of the Group's investment classifications, comparative amounts in respect of unit trusts and other investment vehicles and equity and debt securities have been amended from those previously reported. Refer to note 26 for further details of this adjustment and the financial statement impact arising.

The majority of non-rated debt securities within shareholder assets are held by our businesses in the UK. Of these securities most are allocated an internal rating using a methodology largely consistent with that adopted by an external rating agency, and are considered to be of investment grade credit quality; these include £2.0 billion (*2016; £2.3 billion*) of debt securities held in our UK Life business, predominantly made up of private placements and other corporate bonds, which have been internally rated as investment grade.

B17 – Risk management continued

The Group continues to hold a series of macro credit hedges to reduce the overall credit risk exposure. The Group's maximum exposure to credit risk of financial assets, without taking collateral or these hedges into account, is represented by the carrying value of the financial instruments in the statement of financial position. These comprise debt securities, reinsurance assets, derivative assets, loans and receivables.

To the extent that collateral held is greater than the amount receivable that it is securing, the table above shows only an amount equal to the latter. In the event of default, any over-collateralised security would be returned to the relevant counterparty.

(ii) Financial exposures to peripheral European countries and worldwide banks

Included in our debt securities and other financial assets are exposures to peripheral European countries and worldwide banks. We continued in 2017 to limit our direct shareholder and participating assets exposure to the governments (including local authorities and agencies) and banks of Greece, Portugal, Italy and Spain. We continue to review whether the restrictions on investment in place since late 2009 can be relaxed, given the improved economic situation in these economies.

(iii) Other investments

Other investments (including assets of operations classified as held for sale) include unit trusts and other investment vehicles; derivative financial instruments, representing positions to mitigate the impact of adverse market movements; and other assets includes deposits with credit institutions and minority holdings in property management undertakings.

The credit quality of the underlying debt securities within investment vehicles is managed by the safeguards built into the investment mandates for these funds which determine the funds' risk profiles. At the Group level, we also monitor the asset quality of unit trusts and other investment vehicles against Group set limits.

A proportion of the assets underlying these investments are represented by equities and so credit ratings are not generally applicable. Equity exposures are managed against agreed benchmarks that are set with reference to overall appetite for market risk.

(iv) Loans

- The Group loan portfolio principally comprises:
- Policy loans which are generally collateralised by a lien or charge over the underlying policy;
- Loans and advances to banks which primarily relate to loans of cash collateral received in stock lending transactions. These loans are fully collateralised by other securities;
- Healthcare, infrastructure and PFI loans secured against healthcare, education, social housing and emergency services related premises; and
- Mortgage loans collateralised by property assets.

We use loan to value; interest and debt service cover; and diversity and quality of the tenant base metrics to internally monitor our exposures to mortgage loans. We use credit quality, based on dynamic market measures, and collateralisation rules to manage our stock lending activities. Policy loans are loans and advances made to policyholders, and are collateralised by the underlying policies.

(v) Credit concentration risk

The long-term and general insurance businesses are generally not individually exposed to significant concentrations of credit risk due to the regulations applicable in most markets and the Group credit policy and limits framework, which limit investments in individual assets and asset classes. Credit concentrations are monitored as part of the regular credit monitoring process and are reported to Group ALCO. With the exception of government bonds the largest aggregated counterparty exposure within shareholder assets (i.e. excluding potential exposures arising from reinsurance of unit-linked funds) is to the Swiss Reinsurance Company Limited (including subsidiaries), representing approximately 2.3% of the total shareholder assets.

(vi) Reinsurance credit exposures

The Group is exposed to concentrations of risk with individual reinsurers due to the nature of the reinsurance market and the restricted range of reinsurers that have acceptable credit ratings. The Group operates a policy to manage its reinsurance counterparty exposures, by limiting the reinsurers that may be used and applying strict limits to each reinsurer. Reinsurance exposures are aggregated with other exposures to ensure that the overall risk is within appetite. The Group Capital and Group Risk teams have an active monitoring role with escalation to the Chief Financial Officer (CFO), Chief Risk Officer (CRO), Group ALCO and the Board Risk Committee as appropriate.

The Group's largest reinsurance counterparty is BlackRock Life Ltd (including subsidiaries) as a result of the BlackRock funds offered to UK Life customers via unit-linked contracts. At 31 December 2017, the reinsurance asset recoverable, including debtor balances, from BlackRock Life Ltd was £5,307 million (*2016: £17,087 million*), a significant reduction in exposure as a result of action taken to restructure the agreements with BlackRock Life Ltd, and will be further significantly reduced during 2018.

(vii) Securities finance

The Group has significant securities financing operations within the UK and smaller operations in some other businesses. The risks within this activity are mitigated by collateralisation and minimum counterparty credit quality requirements.

B17 – Risk management continued

(viii) Derivative credit exposures

The Group is exposed to counterparty credit risk through derivative trades. This risk is generally mitigated through holding collateral for most trades. Residual exposures are captured within the Group's credit management framework.

(ix) Unit-linked business

In unit-linked business the policyholder bears the direct market risk and credit risk on investment assets in the unit funds and the shareholders' exposure to credit risk is limited to the extent of the income arising from asset management charges based on the value of assets in the fund.

(x) Impairment of financial assets

The following table provides information regarding the carrying value of financial assets subject to impairment testing that have been impaired and the ageing of those assets that are past due but not impaired. The table excludes assets carried at fair value through profit or loss and held for sale.

| | | Financial assets that are past due but not impaired | | | | | |
|--|--|---|------------------|--------------------------|------------------------------|---|----------------|
| At 31 December 2017 | Neither past due nor impaired 0- £m | 0–3 months £m | 3–6 months £m | 6 months–1 year £m | Greater than 1 year £m | Financial assets that have been impaired C £m | Carrying value |
| Debt securities | 1,726 | _ | _ | _ | _ | _ | 1,726 |
| Reinsurance assets | 7,521 | _ | _ | _ | _ | _ | 7,521 |
| Other investments | 1 | _ | _ | _ | _ | _ | 1 |
| Loans | 3,465 | _ | _ | _ | _ | _ | 3,465 |
| Receivables and other financial assets | 8,185 | 78 | 12 | 5 | 5 | _ | 8,285 |

| | | Financial assets that are past due but not impaired | | | | | | | |
|--|---|---|------------------|--------------------------|------------------------------|--|----------------------|--|--|
| At 31 December 2016 | Neither past due nor impaired 0-3 £m | 0–3 months £m | 3–6 months £m | 6 months–1 year £m | Greater than 1 year £m | Financial assets that have been impaired £m | Carrying value £m | | |
| Debt securities | 1,092 | _ | _ | _ | _ | _ | 1,092 | | |
| Reinsurance assets | 8,388 | _ | _ | _ | _ | _ | 8,388 | | |
| Other investments | 1 | _ | _ | _ | _ | _ | 1 | | |
| Loans | 3,501 | — | — | _ | _ | _ | 3,501 | | |
| Receivables and other financial assets | 7,717 | 61 | 7 | 8 | 1 | _ | 7,794 | | |

Excluded from the tables above are financial and reinsurance assets carried at fair value through profit or loss that are not subject to impairment testing, as follows: £174.2 billion of debt securities (2016: £185.6 billion), £53.3 billion of other investments (2016: £51.1 billion), £24.4 billion of loans (2016: £21.3 billion) and £6.1 billion of reinsurance assets (2016: £18.4 billion).

Where assets have been classed as 'past due and impaired', an analysis is made of the risk of default and a decision is made whether to seek to mitigate the risk. There were no material financial assets that would have been past due or impaired had the terms not been renegotiated.

(c) Market risk

Market risk is the risk of adverse financial impact resulting, directly or indirectly from fluctuations in interest rates, inflation, foreign currency exchange rates, equity and property prices. Market risk arises in business units due to fluctuations in both the value of liabilities and the value of investments held. At Group level, it also arises in relation to the overall portfolio of international businesses and in the value of investment assets owned directly by the shareholders. We actively seek some market risks as part of our investment and product strategy. However, we have limited appetite for interest rate risk as we do not believe it is adequately rewarded.

The management of market risk is undertaken at business unit and at Group level. Businesses manage market risks locally using the Group market risk framework and within local regulatory constraints. Group Capital is responsible for monitoring and managing market risk at Group level and has established criteria for matching assets and liabilities to limit the impact of mismatches due to market movements.

In addition, where the Group's long-term savings businesses have written insurance and investment products where the majority of investment risks are borne by its policyholders, these risks are managed in line with local regulations and marketing literature, in order to satisfy the policyholders' risk and reward objectives. The Group writes unit-linked business in a number of its operations. The shareholders' exposure to market risk on this business is limited to the extent that income arising from asset management charges is based on the value of assets in the fund.

B17 – Risk management continued

The most material types of market risk that the Group is exposed to are described below.

(i) Equity price risk

The Group is subject to direct equity price risk arising from changes in the market values of its equity securities portfolio. Our most material indirect equity price risk exposures are to policyholder unit-linked funds, which are exposed to a fall in the value of the fund thereby reducing the fees we earn on those funds, and participating contracts, which are exposed to a fall in the value of the funds thereby increasing our costs for policyholder guarantees. We also have some equity exposure in shareholder funds through equities held to match inflation-linked liabilities.

We continue to limit our direct equity exposure in line with our risk preferences. At a business unit level, investment limits and local investment regulations require that business units hold diversified portfolios of assets thereby reducing exposure to individual equities. The Group does not have material holdings of unquoted equity securities.

Equity risk is also managed using a variety of derivative instruments, including futures and options. Businesses actively model the performance of equities through the use of risk models, in particular to understand the impact of equity performance on guarantees, options and bonus rates. An equity hedging strategy remains in place to help control the Group's overall direct and indirect exposure to equities. At 31 December 2017 the Group continues to hold a series of macro equity hedges to reduce the overall shareholder equity risk exposure.

Sensitivity to changes in equity prices is given in section '(j) risk and capital management' below.

(ii) Property price risk

The Group is subject to property price risk directly due to holdings of investment properties in a variety of locations worldwide and indirectly through investments in mortgages and mortgage backed securities. Investment in property is managed at business unit level, and is subject to local regulations on investments, liquidity requirements and the expectations of policyholders.

As at 31 December 2017, no material derivative contracts had been entered into to mitigate the effects of changes in property prices. Sensitivity to changes in property prices is given in section '(j) risk and capital management' below.

(iii) Interest rate risk

Interest rate risk arises primarily from the Group's investments in long-term debt and fixed income securities and their movement relative to the value placed on the insurance liabilities. A number of policyholder product features have an influence on the Group's interest rate risk. The major features include guaranteed surrender values, guaranteed annuity options, and minimum surrender and maturity values.

Exposure to interest rate risk is monitored through several measures that include duration, capital modelling, sensitivity testing and stress and scenario testing. The impact of exposure to sustained low interest rates is considered within our scenario testing.

The Group typically manages interest rate risk by investing in fixed interest securities which closely match the interest rate sensitivity of the liabilities where such investments are available. In particular, a key objective is to at least match the duration of our annuity liabilities with assets of the same duration, and in some cases where appropriate cash flow matching has been used. These assets include corporate bonds, residential mortgages and commercial mortgages. Should they default before maturity, it is assumed that the Group can reinvest in assets of a similar risk and return profile, which is subject to market conditions. Interest rate risk is also managed in some business units using a variety of derivative instruments, including futures, options, swaps, caps and floors.

Some of the Group's products, principally participating contracts, expose us to the risk that changes in interest rates will impact on profits through a change in the interest spread (the difference between the amounts that we are required to pay under the contracts and the investment income we are able to earn on the investments supporting our obligations under those contracts). The primary markets where Aviva is exposed to this risk are the UK, France and Italy.

Despite a pick up in market interest rates from the historical lows experienced in 2016, the continued low interest rate environment in a number of markets around the world has resulted in our current reinvestment yields being lower than the overall current portfolio yield, primarily for our investments in fixed income securities and commercial mortgage loans. As long as market yields remain below the current portfolio level, the portfolio yield, and as a result net investment income, will continue to decline. While we anticipate interest rates may remain below historical averages before the 2008 financial crisis for some time to come, it is also possible that further future increases in interest rates or market anticipation of such increases, if larger and more rapid than expected, could adversely impact market values of our portfolio of fixed income securities and increase the risk of credit defaults and downgrades.

Other product lines of the Group, such as protection, are not significantly sensitive to interest rate or market movements. For unitlinked business, the shareholder margins emerging are typically a mixture of annual management fees and risk/expense charges. Risk and expense margins will be largely unaffected by low interest rates. Annual management fees may increase in the short term as the move towards low interest rates increases the value of unit funds. However, in the medium term, unit funds will grow at a lower rate which will reduce fund charges. For the UK annuities business interest rate exposure is mitigated by closely matching the duration of liabilities with assets of the same duration.

The UK participating business includes contracts with features such as guaranteed surrender values, guaranteed annuity options, and minimum surrender and maturity values. These liabilities are managed through duration matching of assets and liabilities and the use of derivatives, including swaptions. As a result, the Group's exposure to sustained low interest rates on this portfolio is not material. The Group's key exposure to low interest rates arises through its other participating contracts, principally in Italy and France. Some of these contracts also include features such as guaranteed minimum bonuses, guaranteed investment returns and guaranteed surrender values. In a low interest rate environment there is a risk that the yield on assets might not be sufficient to cover these obligations. For certain of its participating contracts the Group is able to amend guaranteed crediting rates. Our ability to lower crediting rates may be limited by competition, bonus mechanisms and contractual arrangements.

| Overview | Income & expenses | IFRS | Capital & liquidity | Analysis of assets | VNB & Sales analysis | Other information |
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|
| | | | | | | |

B17 – Risk management continued

The following table summarises the weighted average minimum guaranteed crediting rates and weighted average book value yields on assets as at 31 December 2017 for our Italian and French participating contracts, where the Group's key exposure to sustained low interest rates arises.

| | Weighted average minimum guaranteed crediting rate | Weighted average book value yield on | Participating contract liabilities £m |
|-----------------------------|--|--|--|
| France | 0.64% | 3.02% | 67,689 |
| Italy Other ¹ | 0.69% | 3.56% | 15,237 |
| | N/A | N/A | 54,656 |
| Total | N/A | N/A | 137,582 |

1 'Other' includes UK participating business

Profit before tax on General Insurance and Health Insurance business is generally a mixture of insurance, expense and investment returns. The asset portfolio is invested primarily in fixed income securities and the reduction in interest rates in recent years has reduced the investment component of profit. The portfolio investment yield and average total invested assets in our general insurance and health business are set out in the table below.

| | Portfolio investment yield ¹ | Average assets £m |
|------|---|-------------------------|
| 2015 | 2.58% | 15,268 |
| 2016 | 2.47% | 14,369 |
| 2017 | 2.07% | 14,770 |

1 Before realised and unrealised gains and losses and investment expenses

The nature of the business means that prices in certain circumstances can be increased to maintain overall profitability. This is subject to the competitive environment in each market. To the extent that there are further falls in interest rates the investment yield would be expected to decrease further in future periods.

Sensitivity to changes in interest rates is given in section '(j) risk and capital management' below.

(iv) Inflation risk

Inflation risk arises primarily from the Group's exposure to general insurance claims inflation, to inflation linked benefits within the defined benefit staff pension schemes and within the UK annuity portfolio and to expense inflation. Increases in long-term inflation expectations are closely linked to long-term interest rates and so are frequently considered with interest rate risk. Exposure to inflation risk is monitored through capital modelling, sensitivity testing and stress and scenario testing. The Group typically manages inflation risk through its investment strategy and, in particular, by investing in inflation linked securities and through a variety of derivative instruments, including inflation linked swaps.

(v) Currency risk

The Group has minimal exposure to currency risk from financial instruments held by business units in currencies other than their functional currencies, as nearly all such holdings are backing either unit-linked or with-profits contract liabilities or hedging. As a result the foreign exchange and losses on investments are largely offset by changes in unit-linked and with-profits liabilities and fair value changes in derivatives attributable to changes in foreign exchange rates recognised in the income statement.

The Group operates internationally and as a result is exposed to foreign currency exchange risk arising from fluctuations in exchange rates of various currencies. Approximately 59% of the Group's premium income arises in currencies other than sterling and the Group's net assets are denominated in a variety of currencies, of which the largest are sterling, euro and Canadian dollars. The Group does not hedge foreign currency revenues as these are substantially retained locally to support the growth of the Group's business and meet local regulatory and market requirements. However, the Group does use foreign currency forward contracts to hedge planned dividends from its subsidiaries.

B17 – Risk management continued

Businesses aim to maintain sufficient assets in local currency to meet local currency liabilities, however movements may impact the value of the Group's consolidated shareholders' equity which is expressed in sterling. This aspect of foreign exchange risk is monitored and managed centrally, against pre-determined limits. These exposures are managed by aligning the deployment of regulatory capital by currency with the Group's regulatory capital requirements by currency. Currency borrowings and derivatives are used to manage exposures within the limits that have been set. Except where the Group has applied net investment hedge accounting, foreign exchange gains and losses on foreign currency borrowings (see note 6) are recognised in the income statement, whereas foreign exchange gains and losses arising on consolidation from the translation of assets and liabilities of foreign subsidiaries are recognised in other comprehensive income. At 31 December 2017 and 2016, the Group's total equity deployment by currency including assets 'held for sale' was:

| | Sterling £m | Euro £m | CAD\$ £m | Other £m | Total £m |
|--------------------------|----------------|------------|-------------|-------------|-------------|
| Capital 31 December 2017 | 16,776 | 444 | 309 | 1,606 | 19,135 |
| Capital 31 December 2016 | 15,813 | 923 | 627 | 2,188 | 19,551 |

A 10% change in sterling to euro/Canada\$ (CAD\$) period-end foreign exchange rates would have had the following impact on total equity.

| | 10% increase in sterling / euro rate £m | | sterling / CAD\$ | |
|--------------------------------|--|-----------|------------------|-----------|
| Net assets at 31 December 2017 | (44) | 44 | (31) | 31 |
| Net assets at 31 December 2016 | (92) | 92 | (63) | 20 |

A 10% change in sterling to euro/Canada\$ (CAD\$) average foreign exchange rates applied to translate foreign currency profits would have had the following impact on profit before tax, including resulting gains and losses on foreign exchange hedges.

| | 10% increase in sterling/euro rate £m | 10% decrease in sterling/ euro rate £m | | 10% decrease in sterling/ CAD\$ rate £m |
|--|--|---|----------|--|
| Impact on profit before tax 31 December 2017 | (78) | 95 | 6 | (7) |
| Impact on profit before tax 31 December 2016 | (55) | 67 | (15) | (9) |

The balance sheet changes arise from retranslation of business unit statements of financial position from their functional currencies into sterling, with above movements being taken through the currency translation reserve. These balance sheet movements in exchange rates therefore have no impact on profit. Net asset and profit before tax figures are stated after taking account of the effect of currency hedging activities.

(vi) Derivatives risk

Derivatives are used by a number of the businesses. Derivatives are primarily used for efficient investment management, risk hedging purposes, or to structure specific retail savings products. Activity is overseen by the Group Capital and Group Risk teams, which monitor exposure levels and approve large or complex transactions.

The Group applies strict requirements to the administration and valuation processes it uses, and has a control framework that is consistent with market and industry practice for the activity that is undertaken.

(vii) Correlation risk

The Group recognises that lapse behaviour and potential increases in consumer expectations are sensitive to and interdependent with market movements and interest rates. These interdependencies are taken into consideration in the internal capital model and in scenario analysis.

(d) Liquidity risk

Liquidity risk is the risk of not being able to make payments as they become due because there are insufficient assets in cash form. The relatively illiquid nature of insurance liabilities is a potential source of additional investment return by allowing us to invest in higher yielding, but less liquid assets such as commercial mortgages. The Group seeks to ensure that it maintains sufficient financial resources to meet its obligations as they fall due through the application of a Group liquidity risk policy and business standard and through the development of its liquidity risk management plan. At Group and business unit level, there is a liquidity risk appetite which requires that sufficient liquid resources be maintained to cover net outflows in a stress scenario. In addition to the existing liquid resources and expected inflows, the Group maintains significant undrawn committed borrowing facilities (£1,650 million) from a range of leading international banks to further mitigate this risk.

B17 – Risk management continued

Maturity analyses

The following tables show the maturities of our insurance and investment contract liabilities, and of the financial and reinsurance assets held to meet them.

(i) Analysis of maturity of insurance and investment contract liabilities

For non-linked insurance business, the following table shows the gross liability at 31 December 2017 and 2016 analysed by remaining duration. The total liability is split by remaining duration in proportion to the cash-flows expected to arise during that period, as permitted under IFRS 4, Insurance Contracts.

Almost all linked business and non-linked investment contracts may be surrendered or transferred on demand. For such contracts, the earliest contractual maturity date is therefore the current statement of financial position date, for a surrender amount approximately equal to the current statement of financial position liability. However, we expect surrenders, transfers and maturities to occur over many years, and therefore the tables below reflect the expected cash flows for these contracts, rather than their contractual maturity date. This table includes assets held for sale.

| | Total £m | On demand or within 1 year £m | 1-5 years £m | 5-15 years £m | Over 15 years £m |
|-----------------------------------|-------------|-------------------------------------|-----------------|------------------|---------------------|
| Long-term business | LIII | 2111 | 2111 | 2111 | 2 |
| Insurance contracts – non-linked | 109,900 | 10,105 | 27,278 | 41,720 | 30,797 |
| Investment contracts – non-linked | 71,948 | 5,370 | 17,088 | 26,300 | 23,190 |
| Linked business | 163,571 | 17,609 | 27,632 | 55,519 | 62,811 |
| General insurance and health | 16,794 | 6,877 | 6,838 | 2,462 | 617 |
| Total contract liabilities | 362,213 | 39,961 | 78,836 | 126,001 | 117,415 |
| | | | | | |
| | | On demand or | | | |
| At 31 December 2016 | Total £m | within 1 year £m | 1-5 years £m | 5-15 years £m | Over 15 years £m |
| Long-term business | | | | | |
| Insurance contracts – non-linked | 116,400 | 9,757 | 31,423 | 44,791 | 30,429 |
| Investment contracts – non-linked | 73,112 | 5,358 | 17,050 | 27,568 | 23,136 |
| Linked business | 153,901 | 17,374 | 27,234 | 51,454 | 57,839 |
| General insurance and health | 16,488 | 6,761 | 6,594 | 2,448 | 685 |
| Total contract liabilities | 359,901 | 39,250 | 82,301 | 126,261 | 112,089 |

(ii) Analysis of maturity of financial assets

Cash and cash equivalents

The following table provides an analysis, by maturity date of the principal, of the carrying value of financial assets which are available to fund the repayment of liabilities as they crystallise. This table excludes assets held for sale.

| At 31 December 2017 | Total £m | On demand or within 1 year £m | 1-5 years £m | Over 5 years £m | No fixed term (perpetual) £m |
|----------------------------------|-------------|-------------------------------------|-----------------|--------------------|------------------------------------|
| Debt securities | 174,808 | 28,037 | 47,289 | 99,078 | 404 |
| Equity securities | 89,968 | _ | _ | - | 89,968 |
| Other investments | 46,306 | 40,500 | 364 | 4,680 | 762 |
| Loans | 27,857 | 1,651 | 5,053 | 21,149 | 4 |
| Cash and cash equivalents | 43,347 | 43,347 | _ | _ | _ |
| | 382,286 | 113,535 | 52,706 | 124,907 | 91,138 |
| | | On demand or | | | No fixed term |
| At 31 December 2016 ¹ | Total £m | within 1 year £m | 1-5 years £m | Over 5 years £m | (perpetual) £m |
| Debt securities | 178,970 | 24,293 | 49,061 | 105,448 | 168 |
| Equity securities | 72,042 | _ | _ | - | 72,042 |
| Other investments | 48,823 | 45,889 | 1,112 | 275 | 1,547 |
| Loans | 24,784 | 1,352 | 5,609 | 17,819 | 4 |

Following a review of the Group's investment classifications, comparative amounts in respect of unit trusts and other investment vehicles and equity and debt securities have been amended from those previously reported Refer to note 26 for further details of this adjustment and the financial statement impact arising. 1

55,782

123,542

73,761

38,708

110,242

38 708 363,327

B17 – Risk management continued

The assets above are analysed in accordance with the earliest possible redemption date of the instrument at the initiation of the Group. Where an instrument is transferable back to the issuer on demand, such as most unit trusts or similar types of investment vehicle, it is included in the 'On demand or within 1 year' column. Debt securities with no fixed contractual maturity date are generally callable at the option of the issuer at the date the coupon rate is reset under the contractual terms of the instrument. The terms for resetting the coupon are such that we expect the securities to be redeemed at this date, as it would be uneconomic for the issuer not to do so, and for liquidity management purposes we manage these securities on this basis. The first repricing and call date is normally ten years or more after the date of issuance. Most of the Group's investments in equity securities and fixed maturity securities are market traded and therefore, if required, can be liquidated for cash at short notice.

(e) Life and health insurance risk

Life insurance risk in the Group arises through its exposure to mortality risk and exposure to worse than anticipated operating experience on factors such as persistency levels, exercising of policy holder options and management and administration expenses. The Group's health insurance business (including private health insurance, critical illness cover, income protection and personal accident insurance, as well as a range of corporate healthcare products) exposes the Group to morbidity risk (the proportion of our customers falling sick) and medical expense inflation. The Group chooses to take measured amounts of life and health insurance risk provided that the relevant business has the appropriate core skills to assess and price the risk and adequate returns are available. The Group's underwriting strategy and appetite is communicated via specific policy statements, related business standards and guidelines. Life insurance risk is managed primarily at business unit level with oversight at the Group level.

The underlying risk profile of our life and health insurance risks, primarily persistency, longevity, mortality and expense risk, has remained stable during 2017, although the current continued relatively low levels of interest rates have increased our sensitivity to longevity shocks compared to historical norms. We are also exposed to longevity risk through the Aviva Staff Pension Scheme, to which our economic exposure has been reduced since 2014 by entering into a longevity swap covering approximately £5 billion of pensioner in payment scheme liabilities. Longevity risk remains the Group's most significant life insurance risk, while persistency risk remains significant and continues to have a volatile outlook with underlying performance linked to some degree to economic conditions. However, businesses across the Group have continued to make progress with a range of customer retention activities. The Group has continued to write considerable volumes of life protection business, and to utilise reinsurance to reduce exposure to potential losses. More generally, life insurance risks are believed to provide a significant diversification against other risks in the portfolio. Life insurance risks are modelled within the internal capital model and subject to sensitivity and stress and scenario testing. The assumption and management of life and health insurance risks is governed by the Group-wide business standards covering underwriting, pricing, product design and management, in-force management, claims handling, and reinsurance. The individual life and health insurance risks are managed as follows:

- Mortality and morbidity risks are mitigated by use of reinsurance. The Group allows businesses to select reinsurers, from those approved by the Group, based on local factors, but retains oversight of the overall exposures and monitors that the aggregation of risk ceded is within credit risk appetite.
- Longevity risk and internal experience analysis are monitored against the latest external industry data and emerging trends. Whilst individual businesses are responsible for reserving and pricing for annuity business, the Group monitors the exposure to this risk and any associated capital implications. The Group has used reinsurance solutions to reduce the risks from longevity and continually monitors and evaluates emerging market solutions to mitigate this risk further.
- Persistency risk is managed at a business unit level through frequent monitoring of company experience, and benchmarked against local market information. Generally, persistency risk arises from customers lapsing their policies earlier than has been assumed. Where possible the financial impact of lapses is reduced through appropriate product design. Businesses also implement specific initiatives to improve the retention of policies which may otherwise lapse. The Group has developed guidelines on persistency management.
- Expense risk is primarily managed by the business units through the assessment of business unit profitability and frequent monitoring of expense levels.

Embedded derivatives

The Group is exposed to the risk of changes in policyholder behaviour due to the exercise of options, guarantees and other product features embedded in its long-term savings products. These product features offer policyholders varying degrees of guaranteed benefits at maturity or on early surrender, along with options to convert their benefits into different products on pre-agreed terms. The extent of the impact of these embedded derivatives differs considerably between business units and exposes Aviva to changes in policyholder behaviour in the exercise of options as well as market risk.

Examples of each type of embedded derivative affecting the Group are:

- Options: call, put, surrender and maturity options, guaranteed annuity options, options to cease premium payment, options for withdrawals free of market value adjustment, annuity options, and guaranteed insurability options.
- Guarantees: embedded floor (guaranteed return), maturity guarantee, guaranteed death benefit, and guaranteed minimum rate of annuity payment.
- Other: indexed interest or principal payments, maturity value, loyalty bonus.

The impact of these is reflected in the capital model and managed as part of the asset liability framework.

B17 – Risk management continued

(f) General insurance risk Types of risk

General insurance risk in the Group arises from:

- Fluctuations in the timing, frequency and severity of claims and claim settlements relative to expectations;
- Unexpected claims arising from a single source or cause;
- Inaccurate pricing of risks or inappropriate underwriting of risks when underwritten; and
- Inadequate reinsurance protection or other risk transfer techniques.

Aviva has a preference for general insurance risk in measured amounts for explicit reward, in line with our core skills in underwriting and pricing. The majority of the general insurance business underwritten by the Group continues to be short tail in nature such as motor, household and commercial property insurances. The Group's underwriting strategy and appetite is communicated via specific policy statements, related business standards and guidelines. General insurance risk is managed primarily at business unit level with oversight at the Group level. Claims reserving is undertaken by local actuaries in the various general insurance businesses and is also subject to periodic external reviews.

The vast majority of the Group's general insurance business is managed and priced in the same country as the domicile of the customer.

Management of general insurance risks

Significant insurance risks will be reported under the risk management framework. Additionally, the capital model is used to assess the risks that each general insurance business unit, and the Group as a whole, is exposed to, quantifying their impact and calculating appropriate capital requirements.

Business units have developed mechanisms that identify, quantify and manage accumulated exposures to contain them within the limits of the appetite of the Group. The business units are assisted by the General Insurance Council which provides technical input for major decisions which fall outside individual delegated limits or escalations outside group risk preferences, group risk accumulation, concentration and profitability limits.

Reinsurance strategy

Significant reinsurance purchases are reviewed annually at both business unit and Group level to verify that the levels of protection being bought reflect any developments in exposure and the risk appetite of the Group. The basis of these purchases is underpinned by analysis of capital, earnings and capital volatility, cash flow and liquidity and the Group's franchise value.

Detailed actuarial analysis is used to calculate the Group's extreme risk profile and then design cost and capital efficient reinsurance programmes to mitigate these risks to within agreed appetites. For businesses writing general insurance we analyse the natural catastrophe exposure using our own internal probabilistic catastrophe model which is benchmarked against external catastrophe models widely used by the rest of the (re)insurance industry.

The Group cedes much of its worldwide catastrophe risk to third-party reinsurers through excess of loss and aggregate excess of loss structures. The Group purchases a group-wide catastrophe reinsurance programme to protect against catastrophe losses exceeding a 1 in 200 year return period. The total Group potential retained loss from its most concentrated catastrophe exposure peril (Northern Europe Windstorm) is approximately £150 million on a per occurrence basis and £175 million on an annual aggregate basis. Any losses above these levels are covered by the group-wide catastrophe reinsurance programme to a level in excess of a 1 in 200 year return period. In addition the Group purchases a number of GI business line specific reinsurance programmes with various retention levels to protect both capital and earnings, and has reinsured 100% of its latent exposures to its historic UK employers' liability and public liability business written prior to 31 December 2000.

(g) Asset management risk

Aviva is directly exposed to the risks associated with operating an asset management business through its ownership of Aviva Investors. The underlying risk profile of our asset management risk is derived from investment performance, specialist investment professionals and leadership, product development capabilities, fund liquidity, margin, client retention, regulatory developments, fiduciary and contractual responsibilities. Funds invested in illiquid assets such as commercial property are particularly exposed to liquidity risk. The risk profile is regularly monitored.

A client relationship team is in place to manage client retention risk, while all new asset management products undergo a review and approval process at each stage of the product development process, including approvals from legal, compliance and risk functions. Investment performance against client objectives relative to agreed benchmarks is monitored as part of our investment performance and risk management process, and subject to further independent oversight and challenge by a specialist risk team, reporting directly to the Aviva Investors' Chief Risk Officer.

(h) Operational risk

Operational risk is the risk of direct or indirect loss, arising from inadequate or failed internal processes, people and systems, or external events including changes in the regulatory environment. We have limited appetite for operational risk and aim to reduce these risks as far as is commercially sensible.

Our business units are primarily responsible for identifying and managing operational risks within their businesses, within the groupwide operational risk framework including the risk and control self-assessment process. Businesses must be satisfied that all material risks falling outside our risk tolerances are being mitigated, monitored and reported to an appropriate level. Any risks with a high potential impact are monitored centrally on a regular basis. Businesses use key indicator data to help monitor the status of the risk and control environment. They also identify and capture loss events, taking appropriate action to address actual control breakdowns and promote internal learning.

B17 – Risk management continued

(i) Brand and reputation risk

We are exposed to the risk that litigation, employee misconduct, operational failures, the outcome of regulatory investigations, media speculation and negative publicity, disclosure of confidential client information, inadequate services, whether or not founded, could impact our brands or reputation. Any of our brands or our reputation could also be affected if products or services recommended by us (or any of our intermediaries) do not perform as expected (whether or not the expectations are founded) or customers' expectations for the product change. We seek to reduce this risk to as low a level as commercially sensible.

The FCA regularly considers whether we are meeting the requirement to treat our customers fairly and we make use of various metrics to assess our own performance, including customer advocacy, retention and complaints. Failure to meet these requirements could also impact our brands or reputation.

If we do not manage the perception of our brands and reputation successfully, it could cause existing customers or agents to withdraw from our business and potential customers or agents to choose not to do business with us.

(j) Risk and capital management

(i) Sensitivity test analysis

The Group uses a number of sensitivity tests to understand the volatility of earnings, the volatility of its capital requirements, and to manage its capital more efficiently. Sensitivities to economic and operating experience are regularly produced on the Group's key financial performance metrics to inform the Group's decision making and planning processes, and as part of the framework for identifying and quantifying the risks to which each of its business units, and the Group as a whole, are exposed.

(ii) Life insurance and investment contracts

The nature of long-term business is such that a number of assumptions are made in compiling these financial statements. Assumptions are made about investment returns, expenses, mortality rates and persistency in connection with the in-force policies for each business unit. Assumptions are best estimates based on historic and expected experience of the business. A number of the key assumptions for the Group's central scenario are disclosed elsewhere in these statements.

(iii) General insurance and health business

General insurance and health claim liabilities are estimated by using standard actuarial claims projection techniques. These methods extrapolate the claims development for each accident year based on the observed development of earlier years. In most cases, no explicit assumptions are made as projections are based on assumptions implicit in the historic claims.

(iv) Sensitivity test results

Illustrative results of sensitivity testing for long-term business, general insurance and health business and the fund management and noninsurance business are set out below. For each sensitivity test the impact of a reasonably possible change in a single factor is shown, with other assumptions left unchanged.

| Sensitivity factor | Description of sensitivity factor applied |
|---|--|
| Interest rate and investment return | The impact of a change in market interest rates by a 1% increase or decrease. The test allows consistently for similar changes to investment returns and movements in the market value of backing fixed interest securities. |
| Credit spreads | The impact of a 0.5% increase in credit spreads over risk-free interest rates on corporate bonds and other non-sovereign credit assets. The test allows for any consequential impact on liability valuations. |
| Equity/property market values | The impact of a change in equity/property market values by \pm 10%. |
| Expenses | The impact of an increase in maintenance expenses by 10%. |
| Assurance mortality/morbidity (life insurance only) | The impact of an increase in mortality/morbidity rates for assurance contracts by 5%. |
| Annuitant mortality (long-term insurance only) | The impact of a reduction in mortality rates for annuity contracts by 5%. |
| Gross loss ratios (non-long-term insurance only) | The impact of an increase in gross loss ratios for general insurance and health business by 5%. |

Long-term business sensitivities as at 31 December 2017

| 31 December 2017 Impact on profit before tax £m | Interest rates +1% | Interest rates -1% | Credit spreads +0.5% | Equity/ property +10% | Equity/ property -10% | Expenses +10% | Assurance mortality +5% | Annuitant mortality -5% |
|---|-----------------------|------------------------|-------------------------|-----------------------------|-------------------------------------|-----------------------|-------------------------------|-------------------------------|
| Insurance participating | (45) | 25 | (15) | (20) | (40) | (25) | (5) | (10) |
| Insurance non-participating | (475) | 485 | (790) | (135) | 115 | (215) | (105) | (905) |
| Investment participating | _ | 10 | (5) | (5) | _ | (15) | — | _ |
| Investment non-participating | — | (10) | (5) | 10 | (10) | (30) | — | _ |
| Assets backing life shareholders' funds | (90) | 115 | (25) | 20 | (20) | _ | _ | _ |
| Total | (610) | 625 | (840) | (130) | 45 | (285) | (110) | (915) |
| | | | | | | | | |
| | | | | Equity/ | Equity/ | | Assurance | Annuitant |
| 31 December 2017 Impact on shareholders' equity before tax £m | Interest rates +1% | Interest rates -1% | Credit spreads +0.5% | Equity/ property +10% | Equity/ property -10% | Expenses +10% | Assurance mortality +5% | Annuitant mortality -5% |
| | | | | property | property | | mortality | mortality |
| £m | +1% | -1% | +0.5% | property +10% | property -10% | +10% | mortality +5% | mortality -5% |
| <u>£m</u> Insurance participating | +1% (45) | -1% 25 | +0.5% (15) | property +10% (20) | property -10% (40) | (25) | mortality +5% | mortality -5% (10) |
| <u>Em</u> Insurance participating Insurance non-participating | +1% (45) | -1% 25 485 | (15) (790) (5) | (20) (135) | property -10% (40) | (25) (215) | mortality +5% | mortality -5% (10) |
| <u>Em</u> Insurance participating Insurance non-participating Investment participating | +1% (45) | -1% 25 485 10 | (15) (790) (5) | (20) (135) (5) | property -10% (40) 115 | (25) (215) (15) | mortality +5% | mortality -5% (10) |

| o . | | 1550 | | | | |
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|
| Overview | Income & expenses | IFRS | Capital & liquidity | Analysis of assets | VNB & Sales analysis | Other information |
| | | | | | | |

B17 – Risk management continued Sensitivities as at 31 December 2016

| 31 December 2016 Impact on profit before tax £m | Interest rates +1% | Interest rates -1% | Credit spreads +0.5% | Equity/ property +10% | Equity/ property -10% | Expenses +10% | Assurance mortality +5% | Annuitant mortality -5% |
|--|-----------------------|-----------------------|-------------------------|-----------------------------|-----------------------------|------------------|-------------------------------|-------------------------------|
| Insurance Participating | (50) | 30 | (10) | (130) | 65 | (30) | (5) | (15) |
| Insurance non-participating | (190) | 20 | (775) | (35) | 10 | (190) | (90) | (920) |
| Investment participating | (10) | 5 | (5) | _ | _ | (5) | — | _ |
| Investment non-participating | 10 | (15) | — | 50 | (70) | (65) | — | _ |
| Assets backing life shareholders' funds | (115) | 190 | 10 | (85) | 85 | — | _ | - |
| Total | (355) | 230 | (780) | (200) | 90 | (290) | (95) | (935) |
| 31 December 2016 Impact on shareholders' equity before tax fm | Interest rates +1% | Interest rates -1% | Credit spreads +0.5% | Equity/ property +10% | Equity/ property -10% | Expensed +10% | Assurance mortality +5% | Annuitant mortality -5% |
| Insurance Participating | (50) | 30 | (10) | (130) | 65 | (30) | (5) | (15) |
| Insurance non-participating | (190) | 20 | (775) | (35) | 10 | (190) | (90) | (920) |
| Investment participating | (10) | 5 | (5) | _ | _ | (5) | _ | _ |
| Investment non-participating | 10 | (15) | _ | 50 | (70) | (65) | _ | _ |
| Assets backing life shareholders' funds | (155) | 230 | 5 | (85) | 85 | _ | _ | _ |
| Total | (395) | 270 | (785) | (200) | 90 | (290) | (95) | (935) |

Changes in sensitivities between 2017 and 2016 reflect underlying movements in the value of assets and liabilities, the relative duration of assets and liabilities and asset liability management actions. The sensitivities to economic and demographic movements relate mainly to business in the UK.

General insurance and health business sensitivities as at 31 December 2017

| 31 December 2017 Impact on profit before tax £m | Interest rates +1% | Interest rates -1% | Credit spreads +0.5% | Equity/ property +10% | Equity/ property -10% | Expenses +10% | Gross loss ratios +5% |
|--|-----------------------|-----------------------|-------------------------|-----------------------------|-----------------------------|------------------|-----------------------------|
| Gross of reinsurance | (285) | 300 | (130) | 165 | (165) | (120) | (335) |
| Net of reinsurance | (345) | 355 | (130) | 165 | (165) | (120) | (325) |
| | | | | | | | |
| 31 December 2017 Impact on shareholders' equity before tax £m | Interest rates +1% | Interest rates -1% | Credit spreads +0.5% | Equity/ property +10% | Equity/ property -10% | Expenses +10% | Gross loss ratios +5% |
| | | | | property | property | | ratios |

Sensitivities as at 31 December 2016

| 31 December 2016 Impact on profit before tax £m | Interest rates +1% | Interest rates -1% | Credit spreads +0.5% | Equity/ property +10% | Equity/ property -10% | Expenses +10% | Gross loss ratios +5% |
|--|-----------------------|-----------------------|-------------------------|-----------------------------|-----------------------------|------------------|-----------------------------|
| Gross of reinsurance | (315) | 320 | (145) | 85 | (85) | (115) | (340) |
| Net of reinsurance | (385) | 375 | (145) | 85 | (85) | (115) | (320) |
| | | | | | | | |
| 31 December 2016 Impact on shareholders' equity before tax £m | Interest rates +1% | Interest rates -1% | Credit spreads +0.5% | Equity/ property +10% | Equity/ property -10% | Expenses +10% | Gross loss ratios +5% |
| Gross of reinsurance | (315) | 320 | (145) | 85 | (85) | (25) | (340) |
| | | | | 85 | (85) | (25) | (320) |

For general insurance and health, the impact of the expense sensitivity on profit also includes the increase in ongoing administration expenses, in addition to the increase in the claims handling expense provision.

B17 – Risk management continued

Fund management and non-insurance business sensitivities as at 31 December 2017

| 31 December 2017 Impact on profit before tax £m | Interest rates +1% | Interest rates -1% | Credit spreads +0.5% | Equity/ property +10% | Equity/ property -10% |
|--|-----------------------|-----------------------|-------------------------|-----------------------------|-----------------------------|
| Total | (30) | 30 | 80 | (10) | 20 |
| 31 December 2017 Impact on shareholders' equity before tax £m | Interest rates +1% | Interest rates -1% | Credit spreads +0.5% | Equity/ property +10% | Equity/ property -10% |
| Total | (25) | 25 | 80 | (10) | 15 |

Sensitivities as at 31 December 2016

| 31 December 2016 Impact on profit before tax £m | Interest rates +1% | Interest rates -1% | Credit spreads +0.5% ¹ | Equity/ property +10% | Equity/ property -10% |
|---|-----------------------|-----------------------|--------------------------------------|-----------------------------|-----------------------------|
| Total | - | _ | 30 | (10) | 15 |
| 1 Revised from £10 million to £30 million to include Aviva International Insurance. | | | | | |

| 31 December 2016 Impact on shareholders' equity before tax £m | Interest rates +1% | Interest rates -1% | Credit spreads +0.5% ¹ | Equity/ property +10% | Equity/ property -10% |
|--|-----------------------|-----------------------|--------------------------------------|-----------------------------|-----------------------------|
| Total | _ | — | 30 | (10) | 15 |

1 Revised from £10 million to £30 million to include Aviva International Insurance.

Limitations of sensitivity analysis

The above tables demonstrate the effect of a change in a key assumption while other assumptions remain unchanged. In reality, there is a correlation between the assumptions and other factors. It should also be noted that these sensitivities are non-linear, and larger or smaller impacts should not be interpolated or extrapolated from these results.

The sensitivity analyses do not take into consideration that the Group's assets and liabilities are actively managed. Additionally, the financial position of the Group may vary at the time that any actual market movement occurs. For example, the Group's financial risk management strategy aims to manage the exposure to market fluctuations.

As investment markets move past various trigger levels, management actions could include selling investments, changing investment portfolio allocation, adjusting bonuses credited to policyholders, and taking other protective action.

A number of the business units use passive assumptions to calculate their long-term business liabilities. Consequently, a change in the underlying assumptions may not have any impact on the liabilities, whereas assets held at market value in the statement of financial position will be affected. In these circumstances, the different measurement bases for liabilities and assets may lead to volatility in shareholder equity. Similarly, for general insurance liabilities, the interest rate sensitivities only affect profit and equity where explicit assumptions are made regarding interest (discount) rates or future inflation.

Other limitations in the above sensitivity analyses include the use of hypothetical market movements to demonstrate potential risk that only represent the Group's view of possible near-term market changes that cannot be predicted with any certainty, and the assumption that all interest rates move in an identical fashion.

B18 – Direct capital instrument and tier 1 notes

| Notional amount | 2017 £m | 2016 £m |
|---|------------|------------|
| 5.9021% £500 million direct capital instrument - Issued November 2004 | 500 | 500 |
| 8.25% \$650 million fixed rate tier 1 notes - Issued May 2012 | _ | 392 |
| 6.875% £210 million STICS - Issued November 2003 | 231 | 231 |
| Total | 731 | 1,123 |

The direct capital instrument (the DCI) was issued on 25 November 2004. The DCI has no fixed redemption date but the Company may, at its sole option, redeem all (but not part) of the principal amount on 27 July 2020, at which date the interest rate changes to a variable rate, or on any respective coupon payment date thereafter. The variable rate will be the six month sterling deposit rate plus margin.

The \$650 million fixed rate tier 1 notes (the FxdRNs) were issued on 3 May 2012. On 28 September 2017 notification was given that the Group would redeem the FxdRNs at first call date on 3 November 2017. At the notification date the instrument was reclassified as a financial liability of £484 million, representing its fair value on translation into sterling at that date. The resulting foreign exchange loss of £92 million has been charged to retained earnings. The FxdRNs were redeemed in full on 3 November 2017 at a cost of £488 million, including an additional £4 million of exchange losses subsequent to the reclassification which are included within other expenses within the income statement.

The Step-up Tier one Insurance Capital Securities ('STICS') were issued on 21 November 2003 by Friends Life Holdings plc, substituted as issuer by Aviva plc on 1 October 2015. The STICS are irrevocably guaranteed on a subordinated basis by Aviva Life & Pensions Limited. Prior to the Part VII transfer of the Friends Life business into UK Life on 1 October 2017 the guarantor for the STICS was Friends Life Limited. The STICS have no fixed redemption date but the Company may, at its sole option, redeem the instrument (in whole or in part) on 21 November 2019, or on the coupon payment date falling on successive fifth anniversaries from this date. For each coupon period beginning 21 November 2019, the STICS will bear interest reset every five years at the rate per annum which is the aggregate of 2.97% and the Gross Redemption Yield of the Benchmark Gilt.

The Company has the option to defer coupon payments on the DCI and the STICS on any relevant payment date.

In relation to the DCI, deferred coupons shall only be satisfied should the Company exercise its sole option to redeem the instruments. In relation to the STICS, deferred coupons may be satisfied at any time, at the sole option of the Company. The Company is required to satisfy deferred coupons upon the earliest of the following:

• Resumption of payment of coupons on the STICS; or

Redemption; or

• The commencement of winding up of the issuer.

No interest will accrue on any deferred coupon on the DCI. Interest will accrue on deferred coupons on the STICS at the then current rate of interest on the STICS.

Deferred coupons on the DCI and the STICS will be satisfied by the issue and sale of ordinary shares in the Company at their prevailing market value, to a sum as near as practicable to (and at least equal to) the relevant deferred coupons. In the event of any coupon deferral, the Company will not declare or pay any dividend on its ordinary or preference share capital. These instruments have been treated as equity. Please refer to accounting policy AE.

At the end of 2017 the fair value of the DCI and the STICS was £778 million (2016: £736 million).

B19 – Cash and cash equivalents

Cash and cash equivalents in the statement of cash flows at 31 December comprised:

| | 2017 £m | 2016 £m |
|---|------------|------------|
| Cash and cash equivalents | 43,347 | 38,708 |
| Cash and cash equivalents of operations classified as held for sale | 739 | 255 |
| Bank overdrafts | (499) | (558) |
| Net cash and cash equivalents at 31 December | 43,587 | 38,405 |

B20 - Contingent liabilities and other risk factors

This note sets out the main areas of uncertainty over the calculation of our liabilities.

(a) Uncertainty over claims provisions

Estimation techniques are used by the Group to determine the general insurance business outstanding claims provisions and of the methodology and assumptions used in determining the long-term business provisions. These approaches are designed to allow for the appropriate cost of policy-related liabilities, with a degree of prudence, to give a result within the normal range of outcomes. However, the actual cost of settling these liabilities may differ, for example because experience may be worse than that assumed, or future general insurance business claims inflation may differ from that expected, and hence there is uncertainty in respect of these liabilities.

(b) Asbestos, pollution and social environmental hazards

In the course of conducting insurance business, various companies within the Group receive general insurance liability claims, and become involved in actual or threatened related litigation arising therefrom, including claims in respect of pollution and other environmental hazards. Amongst these are claims in respect of asbestos production and handling in various jurisdictions, including Europe, Canada and Australia. Given the significant delays that are experienced in the notification of these claims, the potential number of incidents they cover and the uncertainties associated with establishing liability, the ultimate cost cannot be determined with certainty. However, on the basis of current information having regard to the level of provisions made for general insurance claims and substantial reinsurance cover now in place, the directors consider that any additional costs arising are not likely to have a material impact on the financial position of the Group.

(c) Guarantees on long-term savings products

As a normal part of their operating activities, various Group companies have given guarantees and options, including interest rate guarantees, in respect of certain long-term insurance and investment products. In providing these guarantees and options, the Group's capital position is sensitive to fluctuations in financial variables including foreign currency exchange rates, interest rates, property values and equity prices. Interest rate guaranteed returns, such as those available on guaranteed annuity options, are sensitive to interest rates falling below the guaranteed level. Other guarantees, such as maturity value guarantees and guarantees in relation to minimum rates of return, are sensitive to fluctuations in the investment return below the level assumed when the guarantee was made. The directors continue to believe that the existing provisions for such guarantees and options are sufficient.

(d) Regulatory compliance

The Group's insurance and investment business is subject to local regulation in each of the countries in which it operates. A number of the Group's UK subsidiaries are dual regulated (directly authorised by both the PRA (for prudential regulation) and the FCA (for conduct regulation) while others are solo regulated (regulated solely by the FCA for both prudential and conduct regulation). Between them, the PRA and FCA have broad powers including the authority to grant, vary the terms of, or cancel a regulated firm's authorisation; to investigate marketing and sales practices; and to require the maintenance of adequate financial resources. The Group's regulators outside the UK typically have similar powers, but in some cases they also operate a system of 'prior product approval'.

The Group's regulated businesses have compliance resources to respond to regulatory enquiries in a constructive way, and take corrective action when warranted. However, all regulated financial services companies face the risk that their regulator could find that they have failed to comply with applicable regulations or have not undertaken corrective action as required.

The impact of any such finding (whether in the UK or overseas) could have a negative impact on the Group's reported results or on its relations with current and potential customers. Regulatory action against a member of the Group could result in adverse publicity for, or negative perceptions regarding, the Group, or could have a material adverse effect on the business of the Group, its results, operations and/or financial condition and divert management's attention from the day-to-day management of the business.

(e) Structured settlements

The Company has purchased annuities from licensed Canadian life insurers to provide for fixed and recurring payments to claimants. As a result of these arrangements, the Company is exposed to credit risk to the extent that any of the life insurers fail to fulfill their obligations. The Company's maximum exposure to credit risk for these types of arrangements is approximately CAD\$1,213 million as at 31 December 2017 (2016: CAD\$1,181 million). Credit risk is managed by acquiring annuities from a diverse portfolio of life insurers with proven financial stability. This risk is reduced to the extent of coverage provided by Assuris, the Canadian life insurance industry compensation plan. As at 31 December 2017, no information has come to the Company's attention that would suggest any weakness or failure in life insurers from which it has purchased annuities and consequently no provision for credit risk is required.

IFRS

Notes to the consolidated financial statements continued

B20 – Contingent liabilities and other risk factors continued (f) Other

In the course of conducting insurance and investment business, various Group companies receive liability claims, and become involved in actual or threatened related litigation. In the opinion of the directors, adequate provisions have been established for such claims and no material loss will arise in this respect.

In addition, in line with standard business practice, various Group companies have given guarantees, indemnities and warranties in connection with disposals in recent years of subsidiaries and associates to parties outside the Aviva Group. In the opinion of the directors, no material unprovisioned loss will arise in respect of these guarantees, indemnities and warranties.

There are a number of charges registered over the assets of Group companies in favour of other Group companies or third parties. In addition, certain of the Company's assets are charged in favour of certain of its subsidiaries as security for intra-Group loans.

The Group's insurance subsidiaries pay contributions to levy schemes in several countries in which we operate. Given the economic environment, there is a heightened risk that the levy contributions will need to be increased to protect policyholders if an insurance company falls into financial difficulties. The directors continue to monitor the situation but are not aware of any need to increase provisions at the statement of financial position date.

B21 – Acquired value of in-force business and intangible assets

Acquired value of in-force business and intangible assets presented in the statement of financial position is comprised of:

| | 2017 £m | 2016 £m |
|--|------------|------------|
| Acquired value of in-force business on insurance contracts ¹ | 1,533 | 1,750 |
| Acquired value of in-force business on investment contracts ² | 1,725 | 2,097 |
| Intangible assets | 1,628 | 1,633 |
| | 4,886 | 5,480 |
| Less: amounts classified as held for sale | (1,431) | (12) |
| Total | 3,455 | 5,468 |

On insurance and participating investment contracts
 On non-participating investment contracts.

The acquired value of in-force business on insurance and investment contract has reduced primarily due to an amortisation charge of £468 million (*2016: £539 million charge*) and a write-down of AVIF in relation to FPI's reinsured book of insurance contracts (£8 million) and FPI's investment contracts (£110 million). The latter was recorded as a remeasurement loss following FPI's classification as held for sale (see note B4).

The slight decrease in the intangible assets is primarily due to the amortisation charge for the year of £186 million (2016: £155 million) offset by additions in the year of £184 million. Additions are largely in respect of capitalised software in relation to the Group's digital initiatives and intangibles from our previously equity accounted joint ventures in Poland that are now fully consolidated (see note B4).

B22 – Subsequent events

For details of subsequent events relating to:

- subsidiaries refer note B4a (iii)
- joint ventures refer note B4c (iii)
- joint ventures refer note B4c (iv)
- joint ventures refer note B4d

IFRS

Capital & liquidity

- In this section Capital and liquidity C1 Analysis of retu C2 Group capital s C3 Equity sensitiv
- Analysis of return on equity Group capital structure IFRS basis Equity sensitivity analysis IFRS basis

Capital and liquidity

C1 – Analysis of return on equity

| | Operating retu | | |
|--|----------------------------|---|---------------------------------------|
| 2017 | Before tax After t £m £ | Weighted average shareholders' funds including non- controlling ax interests ² m £m | Return on equity ² % |
| United Kingdom | 2,201 1,78 | 2 12,828 | 13.9% |
| Canada | 46 3 | 4 1,442 | 2.4% |
| Europe ³ | 1,096 78 | 7 5,890 | 13.4% |
| Asia | 227 21 | 2 1,638 | 12.9% |
| Fund management | 164 12 | 7 495 | 25.7% |
| Corporate and Other Business ⁴ | (273) (19 | 6) 5,669 | n/a |
| Return on total capital employed | 3,461 2,74 | 6 27,962 | 9.8% |
| Subordinated debt | (389) (31 | | 4.3% |
| Senior debt | (4) | 3) (1,398) | 0.2% |
| Return on total equity | 3,068 2,42 | 9 19,340 | 12.6% |
| Less: Non-controlling interests | (13 | 4) (1,325) | 10.1% |
| Direct capital instrument and tier 1 notes | (6 | 5) (1,025) | 6.3% |
| Preference capital | (1 | 7) (200) | 8.5% |
| Return on equity shareholders' funds | 2,21 | 3 16,790 | 13.2% |

The operating return is based upon Group operating profit. Refer to section 1. 1

Return on equity is based on an annualised operating return after tax attributable to ordinary shareholders expressed as a percentage of weighted average ordinary shareholders' equity. Following the launch of UK Insurance which brings together UK Life, UK General Insurance and UK Health into a combined business, the Ireland Life and General Insurance businesses have been aligned to the new management structure and reported within Europe.

The 'Corporate' and 'Other Business' loss before tax of £273 million comprises corporate costs of £184 million, interest on internal lending arrangements of £7 million, other business operating loss (net of investment return) of £157 million, partly offset by finance income on the main UK pension scheme of £75 million. 4

| | Operating return ¹ |
|--|--|
| 2016 | Weighted average shareholders' frunds including non- controlling Return or Before tax After tax interests ² equily fm fm fm fm fm 9% |
| United Kingdom | 1,946 1,573 13,289 11.8% |
| Canada | 269 197 1,256 15.7% |
| Europe ³ | 1,044 743 5,520 13.5% |
| Asia | 228 216 1,548 14.0% |
| Fund management | 138 104 426 24.4% |
| Corporate and Other Business ⁴ | (227) (219) 4,850 n/a |
| Return on total capital employed | 3,398 2,614 26,889 9.7% |
| Subordinated debt | (387) (309) (6,907) 4.5% |
| Senior debt | (1) (1) (869) 0.1% |
| Return on total equity | 3,010 2,304 19,113 12.1% |
| Less: Non-controlling interests | (147) (1,279) 11.5% |
| Direct capital instrument and tier 1 notes | (68) (1,123) 6.1% |
| Preference capital | (17) (200) 8.5% |
| Return on equity shareholders' funds | 2,072 16,511 12.5% |

3

The operating return is based upon Group operating profit. Refer to section 1. Return on equity is based on an annualised operating return after tax attributable to ordinary shareholders expressed as a percentage of weighted average ordinary shareholders' equity. Following the launch of UK Insurance which brings together UK Life, UK General Insurance and UK Health into a combined business, the Ireland Life and General Insurance businesses have been aligned to the new management structure and reported within Europe. As a result, comparative balances have been restated. The 'Corporate' and 'Other Business' loss before tax of £227 million comprises corporate costs of £184 million, interest on internal lending arrangements of £23 million, other business operating loss (net of investment return) of £106 million, partly offset by finance income on the main UK pension scheme of £86 million. 4

| Overview | Income & expenses | IFRS | Capital & liquidity | Analysis of assets | VNB & Sales analysis | Other information |
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|

Capital and liquidity continued

C2 – Group capital structure – IFRS basis

The table below shows how our capital is deployed by market and how that capital is funded.

| | 2017 Capital employed £m | 2016 Capital employed £m |
|---|--------------------------------|--------------------------------|
| Life business | | |
| United Kingdom ¹ | | 11,670 |
| France | 2,704 | 2,756 |
| Poland | 352 | 296 |
| Italy | 954 | 947 |
| Other Europe ¹ | 422 | 759 |
| Europe | 4,432 | 4,758 |
| Asia | 1,558 | 1,643 |
| | 17,507 | 18,071 |
| General insurance & health | | |
| United Kingdom general insurance ^{1,2} | 1,721 | 1,450 |
| United Kingdom health | 93 | 66 |
| Canada | 1,364 | 1,471 |
| France | 589 | 462 |
| Italy | 319 | 282 |
| Other Europe ¹ | 343 | 315 |
| Europe | 1,251 | 1,059 |
| Asia | 10 | 16 |
| | 4,439 | 4,062 |
| Fund management | 520 | 462 |
| Corporate and Other Business ^{2,3} | 5,309 | 5,533 |
| Total capital employed | 27,775 | 28,128 |
| Financed by | | |
| Equity shareholders' funds | 16,969 | 16,803 |
| Non-controlling interests | 1,235 | 1,425 |
| Direct capital instrument and tier 1 notes | 731 | 1,123 |
| Preference shares | 200 | 200 |
| Subordinated debt ⁴ | 7,221 | 7,213 |
| Senior debt | 1,419 | 1,364 |
| Total capital employed⁵ | 27,775 | 28,128 |

1 Following the launch of UK Insurance which brings together UK Life, UK General Insurance and UK Health into a combined business, the Ireland Life and General Insurance businesses have been aligned to the new management structure and

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Corporate and Other Business' includes centrally held tangible net assets, the main UK staff pension scheme surplus and also reflects internal lending arrangements. These internal lending arrangements, which net out on consolidation, include the formal loan arrangement between Aviva Group Holdings Limited and Aviva Insurance Limited.

Subordinated debt excludes amounts held by Group companies of £9 million (2016: £9 million).

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Total capital employed is financed by a combination of equity shareholders' funds, preference capital, subordinated debt and other borrowings. At the end of 2017 the Group had £27.8 billion (2016: £28.1 billion) of total capital employed in our trading operations measured on an IFRS basis. In 2017 the Group redeemed the \$650 million fixed rate tier 1 notes in full at the first call date on 3 November and completed a share buy-back of ordinary shares for an aggregate purchase price of £300 million. The number of shares in issue has reduced by 57,724,500 in respect of shares acquired and cancelled under the buy-back programme.

At the end of 2017 the market value of our external debt (subordinated debt and senior debt), preference shares (including both Aviva plc preference shares of £200 million and General Accident plc preference shares, within non-controlling interests, of £250 million), and direct capital instrument and tier 1 notes was £11,311 million (2016: £11,006 million).

| Overview | Income & expenses | IFRS | Capital & liquidity | Analysis of assets | VNB & Sales analysis | Other information |
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|
| | | | | | | |

Capital and liquidity continued

C3 – Equity sensitivity analysis – IFRS basis

The sensitivity of the Group's total equity on an IFRS basis at 31 December 2017 to a 10% fall in global equity markets, a rise of 1% in global interest rates or a 0.5% increase in credit spreads is as follows:

| 31 December 2016 £bn I FRS basis | 31 December 2017 £bn | Equities down 10% £bn | Interest rates up 1% £bn | 0.5% increased credit spread £bn |
|---|----------------------------|-----------------------------|--------------------------------|---|
| 18.1 Long-term savings 10.1 General insurance and other (8.6)Borrowings | 17.5 10.3 (8.6) | (0.1) | (0.7) (0.5) — | (0.4) 0.6 — |
| 19.6 Total equity | 19.2 | (0.1) | (1.2) | 0.2 |

These sensitivities assume a full tax charge/credit on market value assumptions. The interest rate sensitivity also assumes an equivalent movement in both inflation and discount rate (i.e. no change to real interest rates) and therefore incorporates the offsetting effects of these items on the pension scheme liabilities. A 1% increase in the real interest rate has the effect of reducing the pension scheme liability in the main UK pension scheme by £1.9 billion (before any associated tax impact).

The 0.5% increased credit spread sensitivity does not make an allowance for any adjustment to risk-free interest rates. The long-term business sensitivities provide for any impact of credit spread movements on liability valuations. The sensitivities also include the allocation of staff pension scheme sensitivities, which assume inflation rates and government bond yields remain constant. In practice, the sensitivity of the business to changes in credit spreads is subject to a number of complex interactions. The impact of the credit spread movements will be related to individual portfolio composition and may be driven by changes in credit or liquidity risk; hence, the actual impact may differ substantially from applying spread movements implied by various published credit spread indices to these sensitivities.

IFRS

Analysis of assets

| | s section sis of assets | Page |
|----|---|------|
| D1 | Total assets | 100 |
| D2 | Total assets – Valuation bases/fair value hierarchy | 101 |
| D3 | Analysis of asset quality | 103 |
| D4 | Pension fund assets | 120 |
| D5 | Available funds | 121 |
| D6 | Guarantees | 121 |

Aviva plc Preliminary announcement 2017

| Overview | Income & expenses | IFRS | Capital & liquidity | Analysis of assets | VNB & Sales analysis | Other information |
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|
| | | | | | | |

Analysis of assets

D1 – Total assets

As an insurance business, Aviva Group holds a variety of assets to match the characteristics and duration of its insurance liabilities. Appropriate and effective asset liability matching (on an economic basis) is the principal way in which Aviva manages its investments. In addition, to support this, Aviva also uses a variety of hedging and other risk management strategies to diversify away any residual mismatch risk that is outside of the Group's risk appetite.

| 2017 | Policyholder assets £m | Participating fund assets £m | Shareholder assets £m | Total assets analysed £m | Less assets of operations classified as held for sale £m | Balance sheet total £m |
|--|------------------------------|------------------------------------|-----------------------------|--------------------------------|--|------------------------------|
| Goodwill and acquired value of in-force business and intangible assets | _ | _ | 6,798 | 6,798 | (1,467) | 5,331 |
| Interests in joint ventures and associates | 2 | 1,133 | 507 | 1,642 | _ | 1,642 |
| Property and equipment | _ | 175 | 339 | 514 | (5) | 509 |
| Investment property | 6,256 | 3,966 | 575 | 10,797 | _ | 10,797 |
| Loans | 8 | 3,340 | 24,515 | 27,863 | (6) | 27,857 |
| Financial investments | | | | | | |
| Debt securities | 30,987 | 95,775 | 49,186 | 175,948 | (1,140) | |
| Equity securities | 74,110 | 15,058 | 995 | 90,163 | (195) | |
| Other investments | 42,368 | 7,023 | 3,886 | 53,277 | (6,971) | |
| Reinsurance assets | 6,103 | 235 | 7,277 | 13,615 | (123) | |
| Deferred tax assets | _ | — | 146 | 146 | (2) | 144 |
| Current tax assets | _ | _ | 94 | 94 | _ | 94 |
| Receivables and other financial assets | 488 | 1,484 | 6,351 | 8,323 | (38) | |
| Deferred acquisition costs and other assets | 27 | 565 | 5,952 | 6,544 | (170) | |
| Prepayments and accrued income | 286 | 1,230 | 1,359 | 2,875 | (15) | 2,860 |
| Cash and cash equivalents | 12,000 | 18,855 | 13,231 | 44,086 | (739) | |
| Assets of operations classified as held for sale | _ | _ | _ | _ | 10,871 | 10,871 |
| Total | 172,635 | 148,839 | 121,211 | 442,685 | - | 442,685 |
| Total % | 39.0% | 33.6% | 27.4% | 100.0% | _ | 100.0% |
| 2016 Total | 161,128 | 157,775 | 121,516 | 440,419 | _ | 440,419 |
| 2016 Total % | 36.6% | 35.8% | 27.6% | 100.0% | _ | 100.0% |

As at 31 December 2017, 27.4% of Aviva's total asset base was shareholder assets, 33.6% participating fund assets where Aviva shareholders have partial exposure, and 39.0% policyholder assets where Aviva shareholders have no exposure. Of the total assets (excluding held for sale), investment property, loans and financial investments comprise £349.7 billion, compared to £335.4 billion at 31 December 2016.

D2 - Total assets - Valuation bases/fair value hierarchy

| | | Amortised | Equity accounted/ | |
|--|------------------|------------|-------------------------------|-------------|
| Total assets - 2017 | Fair value £m | cost £m | tax assets ¹ £m | Total £m |
| Goodwill and acquired value of in-force business and intangible assets | | 6,798 | 2 | 6,798 |
| Interests in joint ventures and associates | — | | 1,642 | 1,642 |
| Property and equipment | | 125 | 1,042 | 514 |
| | 10,797 | 125 | _ | 10,797 |
| Investment property Loans | | 2 465 | _ | • |
| Financial Investments | 24,398 | 3,465 | _ | 27,863 |
| Debt securities | 175 049 | | | 175 040 |
| | 175,948 | _ | _ | 175,948 |
| Equity securities Other investments | 90,163 | _ | _ | 90,163 |
| | 53,277 | | _ | 53,277 |
| Reinsurance assets | 6,094 | 7,521 | | 13,615 |
| Deferred tax assets | _ | _ | 146 | 146 |
| Current tax assets | — | | 94 | 94 |
| Receivables and other financial assets | - | 8,323 | _ | 8,323 |
| Deferred acquisition costs and other assets | - | 6,544 | _ | 6,544 |
| Prepayments and accrued income | - | 2,875 | _ | 2,875 |
| Cash and cash equivalents | 44,086 | — | — | 44,086 |
| Total | 405,152 | 35,651 | 1,882 | 442,685 |
| Total % | 91.5% | 8.1% | 0.4% | 100.0% |
| Assets of operations classified as held for sale | 9,059 | 1,810 | 2 | 10,871 |
| Total (excluding assets held for sale) | 396,093 | 33,841 | 1,880 | 431,814 |
| Total % (excluding assets held for sale) | 91.8% | 7.8% | 0.4% | 100.0% |
| 2016 Total | 400,358 | 37,674 | 2,387 | 440,419 |
| 2016 Total % | 90.9% | 8.6% | 0.5% | 100.0% |
| | | | | |

1 Within the Group's statement of financial position, assets are recognised for deferred tax and current tax. The valuation basis of these assets does not directly fall within any of the categories outlined above. As such, these assets have been reported together with equity accounted items within the analysis of the Group's assets.

| Overview | Income & expenses | IFRS | Capital & liquidity | Analysis of assets | VNB & Sales analysis | Other information |
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|

D2 - Total assets - Valuation bases/fair value hierarchy continued

| | Fair value | Amortised cost | Equity accounted/ tax assets ¹ | Total |
|--|------------|-------------------|---|---------|
| Total assets – Policyholder assets 2017 | £m | £m | £m | £m |
| Goodwill and acquired value of in-force business and intangible assets | _ | _ | - | _ |
| Interests in joint ventures and associates | _ | _ | 2 | 2 |
| Property and equipment | _ | _ | _ | _ |
| Investment property | 6,256 | _ | _ | 6,256 |
| Loans | _ | 8 | _ | 8 |
| Financial Investments | | | | |
| Debt securities | 30,987 | — | _ | 30,987 |
| Equity securities | 74,110 | — | _ | 74,110 |
| Other investments | 42,368 | — | _ | 42,368 |
| Reinsurance assets | 6,091 | 12 | _ | 6,103 |
| Deferred tax assets | — | — | _ | _ |
| Current tax assets | — | — | _ | _ |
| Receivables and other financial assets | — | 488 | _ | 488 |
| Deferred acquisition costs and other assets | — | 27 | _ | 27 |
| Prepayments and accrued income | — | 286 | _ | 286 |
| Cash and cash equivalents | 12,000 | _ | _ | 12,000 |
| Total | 171,812 | 821 | 2 | 172,635 |
| Total % | 99.5% | 0.5% | _ | 100.0% |
| Assets of operations classified as held for sale | 8,007 | 6 | _ | 8,013 |
| Total (excluding assets held for sale) | 163,805 | 815 | 2 | 164,622 |
| Total % (excluding assets held for sale) | 99.5% | 0.5% | _ | 100.0% |
| 2016 Total | 159,107 | 1,932 | 89 | 161,128 |
| 2016 Total % | 98.7% | 1.2% | 0.1% | 100.0% |

1 Within the Group's statement of financial position, assets are recognised for deferred tax and current tax. The valuation basis of these assets does not directly fall within any of the categories outlined above. As such, these assets have been reported together with equity accounted items within the analysis of the Group's assets.

| Property and equipment 168 7 — 175 Investment property 3,966 — — 3,966 Loans 92 3,248 — 3,340 Financial Investments 92 3,248 — 95,775 — — 95,775 — — 95,775 — — 95,775 — — 95,775 — — 95,775 — — 95,775 — — 95,775 — — 95,775 — — 95,775 — — 95,775 — — 95,775 — — 95,775 — — 95,775 — — 95,775 — — 95,775 — — 95,775 — — 95,775 — — 15,058 … ~ 235 … 235 Deferred tax assets … … 1230 … <t< th=""><th>Total assets – Participating fund assets 2017</th><th>Fair value £m</th><th>Amortised cost £m</th><th>Equity accounted/ tax assets¹ £m</th><th>Total £m</th></t<> | Total assets – Participating fund assets 2017 | Fair value £m | Amortised cost £m | Equity accounted/ tax assets ¹ £m | Total £m |
|---|--|------------------|-------------------------|---|-------------|
| Interests in joint ventures and associates - - 1,133 1,133 Property and equipment 168 7 - 175 Investment property 3,966 - - 3,940 Financial Investments 92 3,248 - 95,775 Debt securities 95,775 - - 95,775 Equity securities 15,058 - - 15,058 Other investments 7,023 - - 7,023 Deferred tax assets - 235 - 235 Deferred tax assets - - - - Current tax assets - 1,484 - 1,484 Deferred acquisition costs and other assets - 14,283 - 18,855 Total 140,937 6,769 1,133 148,839 Total% 94.7% 4.5% 0.8% 100.0% Assets of operations classified as held for sale - - - - Total (excluding assets held for sale) 140,937 6,769 1,133 148,839 < | Goodwill and acquired value of in-force business and intangible assets | _ | _ | _ | _ |
| Investment property 3,966 3,966 Loans 92 3,248 3,340 Financial Investments 5,775 Equity securities 15,058 15,058 7,023 Other investments 7,023 7,023 7,023 Deferred tax assets 1,484 1,484 1,484 | Interests in joint ventures and associates | _ | _ | 1,133 | 1,133 |
| Loans 92 3,248 - 3,340 Financial Investments 95,775 - - 95,775 Equity securities 15,058 - 15,058 Other investments 7,023 - - 7,023 Reinsurance assets - 235 - 235 Deferred tax assets - - - - Current tax assets - - - - Current tax assets - 1,484 - 1,484 Deferred acquisition costs and other assets - 1,484 - 1,230 Cash and cash equivalents - 565 - 565 Prepayments and accrued income - 1,230 - 1,230 Cash and cash equivalents 18,855 - - 18,855 Total 140,937 6,769 1,133 148,839 Total (excluding assets held for sale) - - - - Total (excluding assets held for sale) 94.7% 4.5% 0.8% 100.0% 2016 Total 149,146 <td>Property and equipment</td> <td>168</td> <td>7</td> <td>_</td> <td>175</td> | Property and equipment | 168 | 7 | _ | 175 |
| Financial Investments 95,775 - - 95,775 Debt securities 15,058 - - 15,058 Other investments 7,023 - - 7,023 Reinsurance assets - 235 - 235 Deferred tax assets - - - - Current tax assets - - - - Current tax assets - 1,484 - 1,484 Deferred acquisition costs and other assets - 1,484 - 1,484 Deferred acquisition costs and other assets - - - - - - - - - 1,230 - 1,230 - 1,230 - 1,230 - 1,230 - 1,230 - 1,230 - 1,230 - 1,230 - 1,230 - 1,230 - 1,230 - 1,230 - 1,230 - 1,855 - - 1,855 - - 1,833 148,839 70tal 4,54 0.8.% 100.0% | Investment property | 3,966 | - | - | 3,966 |
| Debt securities 95,775 - - 95,775 Equity securities 15,058 - - 15,058 Other investments 7,023 - - 7,023 Reinsurance assets - 235 - 235 Deferred tax assets - - - - - Current tax assets - - - - - - - Current tax assets - - 1,484 - 1,484 - 1,484 Deferred acquisition costs and other assets - - 565 - 565 Prepayments and accrued income - 1,230 - - 1,230 Cash and cash equivalents 18,855 - - 18,855 - - 18,855 Total 140,937 6,769 1,133 148,839 100.0% Assets of operations classified as held for sale - - - - - Total (excluding assets held for sale) 140,937 6,769 1,133 148,839 100.0% | Loans | 92 | 3,248 | - | 3,340 |
| Equity securities 15,058 - - 15,058 Other investments 7,023 - - 7,023 Reinsurance assets - 235 - 235 Deferred tax assets - - - - Current tax assets - - - - - Receivables and other financial assets - - - - - Deferred acquisition costs and other assets - 1,484 - 1,484 Deferred acquisition costs and other assets - 1,230 - 1,230 Cash and cash equivalents 18,855 - - 18,855 Total 140,937 6,769 1,133 148,839 Total% 94.7% 4.5% 0.8% 100.0% Assets of operations classified as held for sale - - - - Total (excluding assets held for sale) - - - - Total (excluding assets held for sale) 94.7% 4.5% 0.8% 100.0% 2016 Total 149,146 7,273 <t< td=""><td></td><td></td><td></td><td></td><td></td></t<> | | | | | |
| Other investments 7,023 - - 7,023 Reinsurance assets - 235 - 235 Deferred tax assets - - 235 - 235 Deferred tax assets - </td <td>Debt securities</td> <td>95,775</td> <td>_</td> <td>_</td> <td>95,775</td> | Debt securities | 95,775 | _ | _ | 95,775 |
| Reinsurance assets - 235 - 235 Deferred tax assets - - - - Current tax assets - - - - - Receivables and other financial assets - 1,484 - 1,484 Deferred acquisition costs and other assets - 565 - 565 Prepayments and accrued income - 1,230 - 1,230 Cash and cash equivalents 18,855 - - 18,855 Total 140,937 6,769 1,133 148,839 Total (excluding assets held for sale) - - - - Total (excluding assets held for sale) 94.7% 4.5% 0.8% 100.0% 2016 Total 149,146 7,273 1,356 157,775 | | 15,058 | _ | _ | 15,058 |
| Deferred tax assets - | | 7,023 | - | _ | • |
| Current tax assets – 1,230 – 1,230 – 1,230 – 1,230 – 1,230 – 1,8,855 – – 18,855 – – 18,855 – – 18,855 – – 18,855 – – – – – – – – – – – – – – – – < | | _ | 235 | _ | 235 |
| Receivables and other financial assets - 1,484 - 1,484 Deferred acquisition costs and other assets - 565 - 565 Prepayments and accrued income - 1,230 - 1,230 Cash and cash equivalents 18,855 - - 18,855 Total 140,937 6,769 1,133 148,839 Total % - - - - Assets of operations classified as held for sale - - - - Total (excluding assets held for sale) 140,937 6,769 1,133 148,839 Total % (excluding assets held for sale) 140,937 6,769 1,133 148,839 Total % (excluding assets held for sale) 140,937 6,769 1,133 148,839 2016 Total 149,146 7,273 1,356 157,775 | | _ | - | - | - |
| Deferred acquisition costs and other assets - 565 - 565 Prepayments and accrued income - 1,230 - 1,230 Cash and cash equivalents 18,855 - - 18,855 Total 140,937 6,769 1,133 148,839 Total % 94.7% 4.5% 0.8% 100.0% Assets of operations classified as held for sale - - - Total (excluding assets held for sale) 140,937 6,769 1,133 148,839 Total% (excluding assets held for sale) 140,937 6,769 1,133 148,839 Total % (excluding assets held for sale) 140,937 6,769 1,133 148,839 Total% (excluding assets held for sale) 140,937 6,769 1,133 148,839 2016 Total 149,146 7,273 1,356 157,775 | | _ | _ | — | - |
| Prepayments and accrued income - 1,230 - 1,230 Cash and cash equivalents 18,855 - - 18,855 Total 140,937 6,769 1,133 148,839 Total % 94.7% 4.5% 0.8% 100.0% Assets of operations classified as held for sale - - - Total (excluding assets held for sale) 140,937 6,769 1,133 148,839 Total % (excluding assets held for sale) 140,937 6,769 1,133 148,839 Total % (excluding assets held for sale) 140,937 6,769 1,133 148,839 2016 Total 149,146 7,273 1,356 157,775 | | — | | - | • |
| Cash and cash equivalents 18,855 - - 19,855 Total 140,937 6,769 1,133 148,839 Total % 94.7% 4.5% 0.8% 100.0% Assets of operations classified as held for sale - - - - Total (excluding assets held for sale) 140,937 6,769 1,133 148,839 Total % (excluding assets held for sale) 140,937 6,769 1,133 148,839 Total % (excluding assets held for sale) 140,937 6,769 1,133 148,839 2016 Total 149,146 7,273 1,356 157,775 | | _ | | — | |
| Total 140,937 6,769 1,133 148,839 Total % 94.7% 4.5% 0.8% 100.0% Assets of operations classified as held for sale - - - - Total (excluding assets held for sale) 140,937 6,769 1,133 148,839 Total (excluding assets held for sale) - - - - Total % (excluding assets held for sale) 94.7% 4.5% 0.8% 100.0% 2016 Total 149,146 7,273 1,356 157,775 | | _ | 1,230 | — | |
| Total % 94.7% 4.5% 0.8% 100.0% Assets of operations classified as held for sale - <t< td=""><td>Cash and cash equivalents</td><td>18,855</td><td>_</td><td>_</td><td>18,855</td></t<> | Cash and cash equivalents | 18,855 | _ | _ | 18,855 |
| Assets of operations classified as held for sale — # # # # # # # # # # | Total | 140,937 | 6,769 | 1,133 | 148,839 |
| Total (excluding assets held for sale) 140,937 6,769 1,133 148,839 Total % (excluding assets held for sale) 94.7% 4.5% 0.8% 100.0% 2016 Total 149,146 7,273 1,356 157,775 | Total % | 94.7% | 4.5% | 0.8% | 100.0% |
| Total % (excluding assets held for sale) 94.7% 4.5% 0.8% 100.0% 2016 Total 149,146 7,273 1,356 157,775 | Assets of operations classified as held for sale | _ | _ | _ | _ |
| 2016 Total 149,146 7,273 1,356 157,775 | Total (excluding assets held for sale) | 140,937 | 6,769 | 1,133 | 148,839 |
| | Total % (excluding assets held for sale) | 94.7% | 4.5% | 0.8% | 100.0% |
| 2016 Total % 94.5% 4.6% 0.9% 100.0% | 2016 Total | 149,146 | 7,273 | 1,356 | 157,775 |
| | 2016 Total % | 94.5% | 4.6% | 0.9% | 100.0% |

1 Within the Group's statement of financial position, assets are recognised for deferred tax and current tax. The valuation basis of these assets does not directly fall within any of the categories outlined above. As such, these assets have been reported together with equity accounted items within the analysis of the Group's assets.

| Overview | Income & expenses | IFRS | Capital & liquidity | Analysis of assets | VNB & Sales analysis | Other information |
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|

D2 - Total assets - Valuation bases/fair value hierarchy continued

| | | Amortised | Equity accounted/ | |
|--|------------------|------------|-------------------------------|-------------|
| Total assets – Shareholder assets 2017 | Fair value £m | cost £m | tax assets ¹ £m | Total £m |
| Goodwill and acquired value of in-force business and intangible assets | | 6,798 | 2 | 6,798 |
| Interests in joint ventures and associates | | 0,150 | 507 | 507 |
| Property and equipment | 221 | 118 | - 501 | 339 |
| Investment property | 575 | | _ | 575 |
| Loans | 24,306 | 209 | _ | 24,515 |
| Financial Investments | ,000 | | | ,== |
| Debt securities | 49,186 | _ | _ | 49,186 |
| Equity securities | 995 | _ | _ | 995 |
| Other investments | 3,886 | _ | _ | 3,886 |
| Reinsurance assets | 3 | 7,274 | _ | 7,277 |
| Deferred tax assets | _ | _ | 146 | 146 |
| Current tax assets | _ | — | 94 | 94 |
| Receivables and other financial assets | _ | 6,351 | - | 6,351 |
| Deferred acquisition costs and other assets | _ | 5,952 | _ | 5,952 |
| Prepayments and accrued income | _ | 1,359 | _ | 1,359 |
| Cash and cash equivalents | 13,231 | — | _ | 13,231 |
| Total | 92,403 | 28,061 | 747 | 121,211 |
| Total % | 76.2% | 23.2% | 0.6% | 100.0% |
| Assets of operations classified as held for sale | 1,052 | 1,804 | 2 | 2,858 |
| Total (excluding assets held for sale) | 91,351 | 26,257 | 745 | 118,353 |
| Total % (excluding assets held for sale) | 77.2% | 22.2% | 0.6% | 100.0% |
| 2016 Total | 92,105 | 28,469 | 942 | 121,516 |
| 2016 Total % | 75.8% | 23.4% | 0.8% | 100.0% |

1 Within the Group's statement of financial position, assets are recognised for deferred tax and current tax. The valuation basis of these assets does not directly fall within any of the categories outlined above. As such, these assets have been reported together with equity accounted items within the analysis of the Group's assets.

Fair value hierarchy

To provide further information on the valuation techniques we use to measure assets carried at fair value, we have categorised the measurement basis for assets carried at fair value into a 'fair value hierarchy' described as follows, based on the lowest level input that is significant to the valuation as a whole:

• Inputs to Level 1 fair values are quoted prices (unadjusted) in active markets for identical assets.

- Inputs to Level 2 fair values are inputs other than quoted prices included within Level 1 that are observable for the asset, either directly or indirectly. If the asset has a specified (contractual) term, a Level 2 input must be observable for substantially the full term of the asset.
- Inputs to Level 3 fair values are unobservable inputs for the asset. Unobservable inputs may have been used to measure fair value to the extent that observable inputs are not available, thereby allowing for situations in which there is little, if any, market activity for the asset at the measurement date (or market information for the inputs to any valuation models). As such unobservable inputs reflect the assumption the business unit considers that market participants would use in pricing the asset. Examples are investment property, certain private equity investment and private placements.

| | Fair value hierarchy | | | | | | |
|---|----------------------|---------------|---------------|-------------------------------|-------------------------|---|-----------------------------|
| Investment property and financial assets – Total 2017 | Level 1 £m | Level 2 £m | Level 3 £m | Sub-total fair value £m | Amortised cost £m | Less: Assets of operations classified as held for sale £m | Balance sheet tota £m |
| Investment property | _ | _ | 10,797 | 10,797 | _ | | 10,797 |
| Loans | _ | 449 | 23,949 | 24,398 | 3,465 | (6) | 27,857 |
| Debt securities | 108,535 | 51,921 | 15,492 | 175,948 | _ | (1,140) | 174,808 |
| Equity securities | 89,313 | _ | 850 | 90,163 | _ | (195) | 89,968 |
| Other investments (including derivatives) | 43,556 | 5,194 | 4,527 | 53,277 | _ | (6,971) | 46,306 |
| Assets of operations classified as held for sale | _ | _ | _ | - | _ | 8,312 | 8,312 |
| Total | 241,404 | 57,564 | 55,615 | 354,583 | 3,465 | _ | 358,048 |
| Total % | 67.4% | 16.1% | 15.5% | 99.0% | 1.0% | _ | 100.0% |
| Assets of operations classified as held for sale | 6,192 | 27 | 2,093 | 8,312 | _ | _ | 8,312 |
| Total (excluding assets held for sale) | 235,212 | 57,537 | 53,522 | 346,271 | 3,465 | _ | 349,736 |
| Total % (excluding assets held for sale) | 67.3% | 16.4% | 15.3% | 99.0% | 1.0% | _ | 100.0% |
| 2016 Total ¹ | 215,221 | 73,387 | 54,032 | 342,640 | 3,576 | _ | 346,216 |
| 2016 Total % | 62.2% | 21.2% | 15.6% | 99.0% | 1.0% | _ | 100.0% |

further details of this adjustment and the financial statement impact arising.

At 31 December 2017, the proportion of total financial assets classified as Level 1 in the fair value hierarchy increased to 67.4% (2016: 62.2%). The proportion of Level 2 loans and financial assets was 16.1% (2016: 21.2%) and investment properties, loans and financial assets classified as Level 3 was 15.5% (2016: 15.6%).

| Overview | Income & expenses | IFRS | Capital & liquidity | Analysis of assets | VNB & Sales analysis | Other information |
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|
| | | | | | | |

D3 – Analysis of asset quality

The analysis of assets that follows provides a breakdown of information about the assets held by the Group.

D3.1 – Investment property

| | | | | 2017 | | | | 2016 |
|--|---------------|---------------|----------------|-------------|---------------|---------------|----------------|-------------|
| | | Fairv | alue hierarchy | | | Fairv | alue hierarchy | |
| Investment property – Total | Level 1 £m | Level 2 £m | Level 3 £m | Total £m | Level 1 £m | Level 2 £m | Level 3 £m | Total £m |
| Lease to third parties under operating leases | _ | _ | 10,514 | 10,514 | _ | _ | 10,754 | 10,754 |
| Vacant investment property/held for capital appreciation | _ | _ | 283 | 283 | _ | _ | 62 | 62 |
| Total | _ | _ | 10,797 | 10,797 | _ | _ | 10,816 | 10,816 |
| Total % | _ | _ | 100.0% | 100.0% | _ | _ | 100.0% | 100.0% |
| Assets of operations classified as held for sale | _ | _ | _ | _ | _ | _ | 48 | 48 |
| Total (excluding assets held for sale) | _ | _ | 10,797 | 10,797 | _ | _ | 10,768 | 10,768 |
| Total % (excluding assets held for sale) | _ | _ | 100.0% | 100.0% | _ | _ | 100.0% | 100.0% |

| | | | | 2017 | | | | 2016 |
|--|---------------|---------------|----------------|-------------|---------------|---------------|----------------|-------------|
| | | Fairv | alue hierarchy | | | Fairv | alue hierarchy | |
| Investment property – Policyholder assets | Level 1 £m | Level 2 £m | Level 3 £m | Total £m | Level 1 £m | Level 2 £m | Level 3 £m | Total £m |
| Lease to third parties under operating leases | _ | _ | 6,082 | 6,082 | _ | _ | 6,612 | 6,612 |
| Vacant investment property/held for capital appreciation | _ | — | 174 | 174 | _ | — | 13 | 13 |
| Total | _ | _ | 6,256 | 6,256 | — | _ | 6,625 | 6,625 |
| Total % | _ | _ | 100.0% | 100.0% | _ | _ | 100.0% | 100.0% |
| Assets of operations classified as held for sale | _ | _ | _ | _ | _ | _ | _ | _ |
| Total (excluding assets held for sale) | _ | _ | 6,256 | 6,256 | _ | _ | 6,625 | 6,625 |
| Total % (excluding assets held for sale) | _ | _ | 100.0% | 100.0% | _ | _ | 100.0% | 100.0% |

| | | | | 2017 | | | | 2016 |
|--|---------------|---------------|---------------|-------------|----------------|---------------|---------------|-------------|
| | | | | Fairv | alue hierarchy | | | |
| Investment property – Participating fund assets | Level 1 £m | Level 2 £m | Level 3 £m | Total £m | Level 1 £m | Level 2 £m | Level 3 £m | Total £m |
| Lease to third parties under operating leases | _ | _ | 3,871 | 3,871 | _ | _ | 3,616 | 3,616 |
| Vacant investment property/held for capital appreciation | _ | _ | 95 | 95 | _ | _ | 48 | 48 |
| Total | _ | _ | 3,966 | 3,966 | _ | _ | 3,664 | 3,664 |
| Total % | _ | _ | 100.0% | 100.0% | _ | _ | 100.0% | 100.0% |
| Assets of operations classified as held for sale | _ | _ | _ | _ | _ | _ | 48 | 48 |
| Total (excluding assets held for sale) | _ | _ | 3,966 | 3,966 | _ | _ | 3,616 | 3,616 |
| Total % (excluding assets held for sale) | _ | _ | 100.0% | 100.0% | _ | _ | 100.0% | 100.0% |

| | | | | 2017 | | | | 2016 |
|--|---------------|---------------|----------------|-------------|---------------|---------------|----------------|-------------|
| | | Fair v | alue hierarchy | | | Fairv | alue hierarchy | |
| Investment property – Shareholder assets | Level 1 £m | Level 2 £m | Level 3 £m | Total £m | Level 1 £m | Level 2 £m | Level 3 £m | Total £m |
| Lease to third parties under operating leases | _ | _ | 561 | 561 | _ | _ | 526 | 526 |
| Vacant investment property/held for capital appreciation | _ | — | 14 | 14 | _ | _ | 1 | 1 |
| Total | _ | _ | 575 | 575 | _ | _ | 527 | 527 |
| Total % | _ | _ | 100.0% | 100.0% | _ | _ | 100.0% | 100.0% |
| Assets of operations classified as held for sale | _ | _ | _ | _ | _ | _ | _ | _ |
| Total (excluding assets held for sale) | _ | _ | 575 | 575 | _ | _ | 527 | 527 |
| Total % (excluding assets held for sale) | _ | _ | 100.0% | 100.0% | _ | _ | 100.0% | 100.0% |

Within total investment properties by value 94.7% (2016: 95.1%) are held in policyholder or participating fund assets. Shareholder exposure to investment properties is principally through investments in UK and French commercial property.

Investment properties are stated at their market values as assessed by qualified external independent valuers. The investment properties are valued on an income basis that is based on current rental income plus anticipated uplifts at the next rent review, lease expiry, or break option taking into consideration lease incentives and assuming no further growth in the estimated rental value of the property. This uplift and the discount rate are derived from rates implied by recent market transactions on similar property. These inputs are deemed unobservable.

Within total investment properties by value 97.4% (2016: 99.4%) are leased to third parties under operating leases, with the remainder either being vacant or held for capital appreciation.

D3 – Analysis of asset quality continued D3.2 – Loans

The Group loan portfolio is principally made up of:

- Policy loans which are generally collateralised by a lien or charge over the underlying policy;
- Loans and advances to banks, which primarily relate to loans of cash collateral received in stock lending transactions. These loans are fully collateralised by other securities;
- Mortgage loans collateralised by property assets;
- Healthcare, Infrastructure & Private Finance Initiative ('PFI') other loans; and
- Other loans, which include loans to brokers and intermediaries.

Loans with fixed maturities, including policy loans, mortgage loans (at amortised cost) and loans and advances to banks, are recognised when cash is advanced to borrowers. These loans are carried at their unpaid principal balances and adjusted for amortisation of premium or discount, non-refundable loan fees and related direct costs. These amounts are deferred and amortised over the life of the loan as an adjustment to loan yield using the effective interest rate method.

For certain mortgage loans, the Group has taken advantage of the fair value option under IAS 39 to present the mortgages, associated borrowings, other liabilities and derivative financial instruments at fair value, since they are managed together on a fair value basis. The mortgage loans are not traded in active markets. These investments are classified as level 3 as the assumptions used to derive the credit risk, liquidity premium and property risk are not deemed to be market observable.

| United Kingdom £m | Canada £m | Europe £m | Asia £m | Total £m |
|-------------------------|---|---|---|---|
| 21 | _ | 738 | 34 | 793 |
| 2,524 | _ | _ | _ | 2,524 |
| 3,367 | _ | 196 | — | 3,563 |
| 20,279 | _ | 1 | — | 20,280 |
| 509 | 180 | 14 | _ | 703 |
| 26,700 | 180 | 949 | 34 | 27,863 |
| 95.9% | 0.6% | 3.4% | 0.1% | 100.0% |
| _ | _ | 6 | _ | 6 |
| 26,700 | 180 | 943 | 34 | 27,857 |
| 95.9% | 0.6% | 3.4% | 0.1% | 100.0% |
| 23,699 | 170 | 953 | 37 | 24,859 |
| 95.4% | 0.7% | 3.8% | 0.1% | 100.0% |
| | Kingdom £m 21 2,524 3,367 20,279 509 26,700 95.9% 26,700 95.9% 26,700 95.9% 23,699 | Kingdom £m Canada £m 21 2,524 3,367 20,279 509 180 26,700 180 95.9% 0.6% 26,700 180 95.9% 0.6% 23,699 170 | Kingdom £m Canada £m Europe £m 21 — 738 2,524 — — 3,367 — 196 20,279 — 1 509 180 14 26,700 180 949 95.9% 0.6% 3.4% 26,700 180 943 95.9% 0.6% 3.4% 23,699 170 953 | Kingdom fm Canada fm Europe fm Asia fm 21 - 738 34 2,524 - - - 3,367 - 196 - 20,279 - 1 - 509 180 14 - 26,700 180 949 34 95.9% 0.6% 3.4% 0.1% 26,700 180 943 34 95.9% 0.6% 3.4% 0.1% 26,700 180 943 34 95.9% 0.6% 3.4% 0.1% 23,699 170 953 37 |

| Loans – Policyholders assets 2017 | United Kingdom £m | Canada £m | Europe £m | Asia £m | Total £m |
|--|-------------------------|--------------|--------------|------------|-------------|
| Policy loans | _ | _ | _ | 8 | 8 |
| Loans and advances to banks | _ | _ | _ | _ | _ |
| Healthcare, Infrastructure & PFI other loans | _ | _ | — | _ | _ |
| Mortgage loans | _ | _ | — | _ | _ |
| Other loans | _ | _ | _ | - | _ |
| Total | _ | _ | _ | 8 | 8 |
| Total % | _ | _ | _ | 100.0% | 100.0% |
| Assets of operations classified as held for sale | _ | _ | _ | _ | _ |
| Total (excluding assets held for sale) | _ | _ | _ | 8 | 8 |
| Total % (excluding assets held for sale) | _ | _ | _ | 100.0% | 100.0% |
| 2016 Total | 1,019 | _ | _ | 8 | 1,027 |
| 2016 Total % | 99.2% | _ | _ | 0.8% | 100.0% |

| | United Kingdom | Canada | Europe | Asia | Total |
|--|-------------------|--------|--------|------|--------|
| Loans - Participating fund assets 2017 | £m | £m | £m | £m | £m |
| Policy loans | 16 | _ | 735 | 24 | 775 |
| Loans and advances to banks | 1,970 | _ | _ | _ | 1,970 |
| Healthcare, Infrastructure & PFI other loans | - | _ | — | _ | _ |
| Mortgage loans | 90 | _ | 1 | _ | 91 |
| Other loans | 504 | - | - | _ | 504 |
| Total | 2,580 | _ | 736 | 24 | 3,340 |
| Total % | 77.3% | _ | 22.0% | 0.7% | 100.0% |
| Assets of operations classified as held for sale | _ | _ | _ | _ | _ |
| Total (excluding assets held for sale) | 2,580 | _ | 736 | 24 | 3,340 |
| Total % (excluding assets held for sale) | 77.3% | _ | 22.0% | 0.7% | 100.0% |
| 2016 Total | 1,613 | _ | 830 | 27 | 2,470 |
| 2016 Total % | 65.3% | _ | 33.6% | 1.1% | 100.0% |
| | | | | | |

D3 – Analysis of asset quality continued D3.2 – Loans continued

| United Kingdom £m | Canada £m | Europe £m | Asia £m | Total £m |
|-------------------------|--|--|--|---|
| 5 | _ | 3 | 2 | 10 |
| 554 | — | _ | _ | 554 |
| 3,367 | — | 196 | _ | 3,563 |
| 20,189 | — | _ | _ | 20,189 |
| 5 | 180 | 14 | _ | 199 |
| 24,120 | 180 | 213 | 2 | 24,515 |
| 98.4% | 0.7% | 0.9% | _ | 100.0% |
| | _ | 6 | _ | 6 |
| 24,120 | 180 | 207 | 2 | 24,509 |
| 98.5% | 0.7% | 0.8% | _ | 100.0% |
| 21,067 | 170 | 123 | 2 | 21,362 |
| 98.6% | 0.8% | 0.6% | _ | 100.0% |
| | Kingdom £m 5 554 3,367 20,189 5 24,120 98.4% — 24,120 98.5% 21,067 | Kingdom £m Canada £m 5 554 3,367 20,189 5 180 24,120 180 98.4% 0.7% 24,120 180 98.5% 0.7% 21,067 170 | Kingdom £m Canada £m Europe £m 5 3 554 3,367 196 20,189 - 5 180 14 24,120 180 213 98.4% 0.7% 0.9% 6 24,120 180 207 98.5% 0.7% 0.8% 21,067 170 123 | Kingdom £m Canada £m Europe £m Asia £m 5 - 3 2 554 - - - 3,367 - 196 - 20,189 - - - 20,189 - - - 20,189 - - - 213 213 2 98.4% 0.7% 0.9% - - - 6 - 24,120 180 207 2 98.5% 0.7% 0.8% - 21,067 170 123 2 |

The value of the Group's loan portfolio (including Policyholder, Participating Fund and Shareholder assets) excluding assets held for sale at 31 December 2017 stood at £27.9 billion (*2016: £24.8 billion*), an increase of £3.1 billion.

The total shareholder exposure to loans was £24.5 billion (*2016: £21.4 billion*) and represented 87.8% of the total loan portfolio, with the remaining 12.2% mainly held in participating funds (£3.3 billion (*2016: £2.4 billion*)) with £8 million (*2016: £1.0 billion*) in policyholder assets. Of the Group's total loan portfolio excluding assets held for sale (including Policyholder, Participating Fund and Shareholder assets),

73% (2016: 74%) is invested in mortgage loans. Primany Healthcare, Infrastructure and PEL other loans included within shareholder assets are 53.6 billion (2016: 52.5 billion) and are

Primary Healthcare, Infrastructure and PFI other loans included within shareholder assets are £3.6 billion (2016: £2.5 billion) and are secured against the income from healthcare and educational premises.

Mortgage loans - Shareholder assets

| 2017 | Total £m |
|---|-------------|
| | žiii |
| Non-securitised mortgage loans | C 700 |
| – Residential (Equity release) | 6,799 |
| – Commercial | 7,547 |
| – Healthcare, Infrastructure & PFI mortgage loans | 3,380 |
| | 17,726 |
| Securitised mortgage loans | 2,463 |
| Total | 20,189 |
| Assets of operations classified as held for sale | _ |
| Total (excluding assets held for sale) | 20,189 |
| 2016 Total | 18,133 |

The Group's mortgage loan portfolio is mainly focussed in the UK, across various sectors, including residential loans, commercial loans and government supported healthcare loans. Aviva's shareholder exposure to mortgage loans accounts for 82% of total shareholder asset loans. This section focuses on explaining the shareholder risk within these exposures.

United Kingdom (Non-securitised mortgage loans) Residential

The UK non-securitised residential mortgage portfolio has a total value at the end of 2017 of £6.8 billion (2016: £5.7 billion).

The movement in the year is due to £0.7 billion of net new loans and £0.1 billion of accrued interest (net of redemptions). Fair value movements were £0.3 billion.

These mortgages are all in the form of equity release, whereby homeowners mortgage their property to release cash equity. Due to the structure of equity release mortgages, whereby interest amounts due are not paid in cash but instead rolled into the amount outstanding, they predominantly have a current Loan to Value ('LTV') of below 70%. The average LTV across the portfolio is 24.6% (*2016: 24.5%*). The change from prior year reflects the change in portfolio mix following the transfer, as outlined above.

D3 – Analysis of asset quality continued

D3.2 – Loans continued Commercial

Gross exposure by loan to value and arrears is shown in the table below.

Shareholder assets

| 2017 | >120% £m | 115-120% £m | 110–115% £m | 105–110% £m | 100–105% £m | 95–100% £m | 90–95% £m | 80–90% £m | 70–80% £m | <70% £m | Total £m |
|----------------|-------------|----------------|----------------|----------------|----------------|---------------|--------------|--------------|--------------|------------|-------------|
| Not in arrears | _ | _ | _ | _ | _ | _ | 333 | 50 | 684 | 6,480 | 7,547 |
| 0 – 3 months | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| 3 – 6 months | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| 6 – 12 months | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| > 12 months | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| Total | _ | _ | - | - | _ | _ | 333 | 50 | 684 | 6,480 | 7,547 |

Of the £7.5 billion (2016: £6.7 billion) of UK non-securitised commercial mortgage loans in the shareholder fund held by UK Life, £7.1 billion are used to back annuity liabilities and are stated on a fair value basis. The loan exposures for UK Life are calculated on a discounted cash flow basis, and include a risk adjustment through the use of Credit Risk Adjusted Value ('CRAV') methods.

For commercial mortgages loan service collection ratios, a key indicator of mortgage portfolio performance, improved to 2.23x (2016: 1.89x). Loan Interest Cover (LIC), which is defined as the annual net rental income (including rental deposits and less ground rent) divided by the annual loan interest service, also improved to 2.51x (2016: 2.18x). Average mortgage LTV decreased by 2pp compared to 2016 from 58% to 56% (CRAV). There are no loans in arrears included within our shareholder assets (2016: £0.1 million).

Commercial mortgages and Healthcare, Infrastructure & PFI loans are held at fair value on the asset side of the statement of financial position. Insurance liabilities are valued using a discount rate derived from gross yield on assets, with adjustments to allow for risk. £13.9 billion of shareholder loan assets are backing annuity liabilities and comprise of commercial mortgage loans (£7.1 billion), Healthcare, Infrastructure and PFI mortgage loans (£3.4 billion) and Primary Healthcare, Infrastructure and PFI other loans (£3.4 billion). The Group carries a valuation allowance within the liabilities against the risk of default of commercial mortgages, including Healthcare and PFI mortgages, of £0.4 billion which equates to 40 bps at 31 December 2017 (*2016: 50 bps*). The total valuation allowance held by Aviva Annuity UK Limited in respect of corporate bonds and mortgages, including Healthcare and PFI mortgages are £1.3 billion (*2016: £1.3 billion*) over the remaining term of the UK Life corporate bond and mortgage portfolio.

The UK portfolio remains well diversified in terms of property type, location and tenants as well as the spread of loans written over time. The risks in commercial mortgages are addressed through several layers of protection with the mortgage risk profile being primarily driven by the ability of the underlying tenant rental income to cover loan interest and amortisation. Should any single tenant default on their rental payment, rental from other tenants backing the same loan often ensures the loan interest cover does not fall below 1.0x. Where there are multiple loans to a single borrower further protection may be achieved through cross-charging (or pooling) such that any single loan is also supported by rents received within other pool loans. Additionally, there may be support provided by the borrower of the loan itself and further loss mitigation from any general floating charge held over assets within the borrower companies.

If the LIC cover falls below 1.0x and the borrower defaults then Aviva still retains the option of selling the security or restructuring the loans and benefiting from the protection of the collateral. A combination of these benefits and the high recovery levels afforded by property collateral (compared to corporate debt or other uncollateralised credit exposures) results in the economic exposure being significantly lower than the gross exposure reported above. We will continue to actively manage this position.

Healthcare

Primary Healthcare, Infrastructure and PFI mortgage loans included within shareholder assets of £3.4 billion (*2016: £3.3 billion*) are secured against primary health care premises (including General Practitioner surgeries), education, social housing and emergency services related premises. For all such loans, Government support is provided through either direct funding or reimbursement of rental payments to the tenants to meet income service and provide for the debt to be reduced substantially over the term of the loan. Although the loan principal is not Government guaranteed, the nature of these businesses and premises provides considerable comfort of an ongoing business model and low risk of default.

On a market value basis, we estimate the average LTV of these mortgages to be 76% (2016: 74%), although as explained above, we do not consider this to be a key risk indicator. Income support from the Government bodies and the social need for these premises provide sustained income stability. Aviva therefore considers these loans to be lower risk relative to other mortgage loans.

Securitised mortgage loans

Securitised residential mortgages held are predominantly issued through vehicles in the UK.

As at 31 December 2017, the Group has £2.5 billion (2016: £2.4 billion) securitised mortgage loans. Funding for the securitised residential mortgage assets was obtained by issuing loan note securities. Of these loan notes approximately £231 million (2016: £217 million) are held by Group companies. The remainder is held by third parties external to Aviva. As any cash shortfall arising once all mortgages have redeemed is borne by the loan note holders, the majority of the credit risk of these mortgages is borne by third parties.

These mortgages are all in the form of equity release, whereby homeowners mortgage their property to release cash equity. Due to the structure of equity release mortgages, whereby interest amounts due are not paid in cash but instead rolled into the amount outstanding, they predominantly have a current Loan to Value ('LTV') of below 70%. The average LTV across the securitised mortgage loans is 37.2%.

D3 – Analysis of asset quality continued

D3.3 - Financial investments

| | 2017 2016 | | | | | | | | |
|---|-------------------------------|------------------------------|---|-----------------------------|-------------------------------|---------------------------|--|-----------------------------|--|
| Financial Investments – Total | Cost/ amortised cost £m | Unrealised an gains £m | Impairment nd unrealised losses £m | Fair value £m | Cost/ amortised cost £m | Unrealised gains £m | Impairment and unrealised losses £m | Fair value £m | |
| Debt securities Equity securities Other investments | 162,092 75,060 37,570 | 20,244 16,819 15,930 | (6,388) (1,716) (223) | 175,948 90,163 53,277 | 172,007 60,194 42,341 | 16,014 14,152 8,491 | (1,313) (1,640) 295 | 186,708 72,706 51,127 | |
| Total | 274,722 | 52,993 | (8,327) | 319,388 | 274,542 | 38,657 | (2,658) | 310,541 | |
| Assets of operations classified as held for sale | 7,075 | 1,245 | (14) | 8,306 | 9,872 | 865 | (31) | 10,706 | |
| Total (excluding assets held for sale) | 267,647 | 51,748 | (8,313) | 311,082 | 264,670 | 37,792 | (2,627) | 299,835 | |

Aviva holds large quantities of debt securities in the form of high quality bonds, primarily to match our liability to make guaranteed payments to policyholders. Some credit risk is taken, partly to increase returns to policyholders and partly to optimise the risk/return profile for shareholders. The risks are consistent with the products we offer and the related investment mandates, and are in line with our risk appetite.

The Group also holds equities, the majority of which are held in participating funds and policyholder funds, where they form an integral part of the investment expectations of policyholders and follow well-defined investment mandates. Some equities are also held in shareholder funds. The vast majority of equity investments are valued at quoted market prices and therefore classified as Level 1. Refer to D3.3.2 for further analysis of equities.

Other investments include investments such as unit trusts, derivative financial instruments and deposits with credit institutions. For further analysis, see D3.3.3.

Following a review of the Group's investment classifications, comparative amounts have been amended from those previously reported, reflecting the fact that equity and debt securities held indirectly through majority owned investment funds in the UK managed by third parties, which in 2016 were presented as unit trusts and other investment vehicles within other investments, are now presented as debt and equity securities. The effect of this change is to increase equity and debt securities by £3,434 million and £3,694 million respectively and decrease unit trusts and other investment vehicles within other investments by £7,128 million.

In addition, assets classified as held for sale of £10,706 million have been revised from available for sale to other than trading.

D3 – Analysis of asset quality continued D3.3 – Financial investments continued D3.3.1 – Debt securities

| | Fair value hierarchy | | | | |
|---------------|--|---|--|--|--|
| Level 1 £m | Level 2 £m | Level 3 £m | Total £m | | |
| 27,743 | 2,276 | 242 | 30,261 | | |
| 37,948 | 11,283 | 3,510 | 52,741 | | |
| 30,991 | 6,368 | 2,966 | 40,325 | | |
| 1,900 | 2,882 | 441 | 5,223 | | |
| 5,057 | 2,033 | 103 | 7,193 | | |
| 4,383 | 6,206 | 540 | 11,129 | | |
| 9 | _ | _ | 9 | | |
| 34,349 | 26,626 | 9,006 | 69,981 | | |
| 4,103 | 5,530 | 2,194 | 11,827 | | |
| 108,535 | 51,921 | 15,492 | 175,948 | | |
| 61.7% | 29.5% | 8.8% | 100.0% | | |
| 764 | 21 | 355 | 1,140 | | |
| 107,771 | 51,900 | 15,137 | 174,808 | | |
| 61.6% | 29.7% | 8.7% | 100.0% | | |
| 102,724 | 66,668 | 17,316 | 186,708 | | |
| 55.0% | 35.7% | 9.3% | 100.0% | | |
| | ٤m 27,743 37,948 30,991 1,900 5,057 4,383 9 34,349 4,103 108,535 61.7% 764 107,771 61.6% 102,724 | Level1 £m Level2 £m 27,743 2,276 37,948 11,283 30,991 6,368 1,900 2,882 5,057 2,033 4,383 6,206 9 - 34,349 26,626 4,103 5,530 108,535 51,921 61.7% 29.5% 764 21 107,771 51,900 61.6% 29.7% 102,724 66,668 | $\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$ | | |

| | | Fair value hierarchy | | | | |
|--|---------------|----------------------|---------------|-------------|--|--|
| Debt securities – Policyholders assets 2017 | Level 1 £m | Level 2 £m | Level 3 £m | Total £m | | |
| UK Government | 9,172 | 2 | (1) | 9,173 | | |
| Non-UK government | 4,983 | 726 | 6 | 5,715 | | |
| Europe | 1,453 | 385 | 1 | 1,839 | | |
| North America | 1,168 | 294 | 4 | 1,466 | | |
| Asia Pacific & Other | 2,362 | 47 | 1 | 2,410 | | |
| Corporate bonds – Public utilities | 810 | 393 | 5 | 1,208 | | |
| Corporate convertible bonds | — | — | _ | — | | |
| Other Corporate bonds | 10,123 | 1,863 | 556 | 12,542 | | |
| Other | 1,289 | 1,060 | _ | 2,349 | | |
| Total | 26,377 | 4,044 | 566 | 30,987 | | |
| Total % | 85.1% | 13.1% | 1.8% | 100.0% | | |
| Assets of operations classified as held for sale | _ | 11 | 355 | 366 | | |
| Total (excluding assets held for sale) | 26,377 | 4,033 | 211 | 30,621 | | |
| Total % (excluding assets held for sale) | 86.1% | 13.2% | 0.7% | 100.0% | | |
| 2016 Total ¹ | 17,521 | 11,193 | 803 | 29,517 | | |
| 2016 Total % | 59.4% | 37.9% | 2.7% | 100.0% | | |

Following a review of the Group's investment classification, comparative amounts in respect of unit trusts and other investment vehicles and equity and debt securities have been amended from those previously reported. Refer to D3.3 for further details of this adjustment and the financial statement impact arising. 1

D3 – Analysis of asset quality continued

D3.3 - Financial investments continued D3.3.1 - Debt securities continued

| | | Fair va | lue hierarchy | |
|--|---------------|---------------|---------------|-------------|
| Debt securities – Participating fund assets 2017 | Level 1 £m | Level 2 £m | Level 3 £m | Total £m |
| UK Government | 9,269 | 975 | 77 | 10,321 |
| Non-UK government | 29,380 | 4,103 | 1,892 | 35,375 |
| Europe | 26,085 | 2,651 | 1,847 | 30,583 |
| North America | 691 | 22 | 1 | 714 |
| Asia Pacific & Other | 2,604 | 1,430 | 44 | 4,078 |
| Corporate bonds – Public utilities | 3,419 | 1,128 | 17 | 4,564 |
| Corporate convertible bonds | 9 | _ | _ | 9 |
| Other Corporate bonds | 23,027 | 9,544 | 5,792 | 38,363 |
| Other | 2,609 | 2,689 | 1,845 | 7,143 |
| Total | 67,713 | 18,439 | 9,623 | 95,775 |
| Total % | 70.7% | 19.3% | 10.0% | 100.0% |
| Assets of operations classified as held for sale | _ | _ | _ | _ |
| Total (excluding assets held for sale) | 67,713 | 18,439 | 9,623 | 95,775 |
| Total % (excluding assets held for sale) | 70.7% | 19.3% | 10.0% | 100.0% |
| 2016 Total ¹ | 70,161 | 23,256 | 10,280 | 103,697 |
| 2016 Total % | 67.7% | 22.4% | 9.9% | 100.0% |

| | | Fair va | lue hierarchy | |
|--|---------------|---------------|---------------|-------------|
| Debt securities – Shareholder assets 2017 | Level 1 £m | Level 2 £m | Level 3 £m | Total £m |
| UK Government | 9,302 | 1,299 | 166 | 10,767 |
| Non-UK government | 3,585 | 6,454 | 1,612 | 11,651 |
| Europe | 3,453 | 3,332 | 1,118 | 7,903 |
| North America | 41 | 2,566 | 436 | 3,043 |
| Asia Pacific & Other | 91 | 556 | 58 | 705 |
| Corporate bonds – Public utilities | 154 | 4,685 | 518 | 5,357 |
| Corporate convertible bonds | _ | _ | _ | _ |
| Other Corporate bonds | 1,199 | 15,219 | 2,658 | 19,076 |
| Other | 205 | 1,781 | 349 | 2,335 |
| Total | 14,445 | 29,438 | 5,303 | 49,186 |
| Total % | 29.3% | 59.9% | 10.8% | 100.0% |
| Assets of operations classified as held for sale | 764 | 10 | _ | 774 |
| Total (excluding assets held for sale) | 13,681 | 29,428 | 5,303 | 48,412 |
| Total % (excluding assets held for sale) | 28.2% | 60.8% | 11.0% | 100.0% |
| 2016 Total ¹ | 15,042 | 32,219 | 6,233 | 53,494 |
| 2016 Total % | 28.1% | 60.2% | 11.7% | 100.0% |

Following a review of the Group's investment classification, comparative amounts in respect of unit trusts and other investment vehicles and equity and debt securities have been amended from those previously reported. Refer to D3.3 for further details of this adjustment and the financial statement impact arising. 1

Within the shareholder assets 29.3% (2016: 28.1%) of exposure to debt securities is based on quoted prices in an active market and are therefore classified as fair value level 1.

Within the shareholder assets 59.9% (2016: 60.2%) of exposure to debt securities is based on inputs other than quoted prices and are observable for the asset or liability, either directly or indirectly and are therefore classified as fair value level 2.

Within the shareholder assets 10.8% (2016: 11.7%) of exposure to debt securities is fair valued using models with significant unobservable market parameters (classified as fair value level 3). Where estimates are used, these are based on a combination of independent third party evidence and internally developed models, calibrated to market observable data where possible.

D3 – Analysis of asset quality continued

D3.3 - Financial investments continued

D3.3.1 - Debt securities continued

| | | | | E | | | |
|--|-----------|----------|---------|-----------|---------------------|-----------------|-------------|
| Debt securities – Total 2017 | AAA £m | AA £m | A £m | BBB £m | Less than BBB £m | Non-rated £m | Total £m |
| Government | | | | | | | |
| UK Government | 164 | 29,756 | 75 | _ | 138 | 109 | 30,242 |
| UK local authorities | _ | 1 | _ | _ | 1 | 17 | 19 |
| Non-UK Government | 10,757 | 20,602 | 6,157 | 12,443 | 1,689 | 1,093 | 52,741 |
| | 10,921 | 50,359 | 6,232 | 12,443 | 1,828 | 1,219 | 83,002 |
| Corporate | | | | | | | |
| Public utilities | 2 | 175 | 4,165 | 5,517 | 670 | 600 | 11,129 |
| Convertibles and bonds with warrants | _ | — | _ | 9 | _ | _ | 9 |
| Other corporate bonds | 6,944 | 5,640 | 22,455 | 20,372 | 7,688 | 6,882 | 69,981 |
| | 6,946 | 5,815 | 26,620 | 25,898 | 8,358 | 7,482 | 81,119 |
| Certificates of deposits | _ | 377 | 557 | _ | _ | 92 | 1,026 |
| Structured | | | | | | | |
| RMBS ² non-agency ALT A | _ | _ | _ | _ | _ | _ | _ |
| RMBS ² non-agency prime | 12 | 27 | 93 | 1 | 59 | _ | 192 |
| RMBS ² agency | 53 | - | _ | _ | - | - | 53 |
| | 65 | 27 | 93 | 1 | 59 | - | 245 |
| CMBS ³ | 317 | 35 | 289 | _ | - | 1 | 643 |
| ABS ⁴ | 38 | 465 | 469 | 101 | 81 | — | 1,154 |
| CDO (including CLO) ⁵ | 377 | _ | _ | _ | — | - | 377 |
| ABCP ⁶ | _ | - | - | - | - | - | — |
| | 732 | 500 | 758 | 101 | 82 | 1 | 2,174 |
| Wrapped credit | _ | 18 | 485 | 81 | 43 | 12 | 639 |
| Other | 54 | 144 | 447 | 2,423 | 3,370 | 1,305 | 7,743 |
| Total | 18,718 | 57,240 | 35,192 | 40,947 | 13,740 | 10,111 | 175,948 |
| Total % | 10.6% | 32.5% | 20.0% | 23.3% | 7.8% | 5.8% | 100.0% |
| Assets of operations classified as held for sale | 68 | 25 | 8 | 1,017 | 11 | 11 | 1,140 |
| Total (excluding assets held for sale) | 18,650 | 57,215 | 35,184 | 39,930 | 13,729 | 10,100 | 174,808 |
| Total % (excluding assets held for sale) | 10.7% | 32.7% | 20.1% | 22.8% | 7.9% | 5.8% | 100.0% |
| 2016 Total ¹ | 22,030 | 62,495 | 35,403 | 44,660 | 11,163 | 10,957 | 186,708 |
| 2016 Total % | 11.7% | 33.5% | 19.0% | 23.9% | 6.0% | 5.9% | 100.0% |

Following a review of the Group's investment classification, comparative amounts in respect of unit trusts and other investment vehicles and equity and debt securities have been amended from those previously reported. Refer to D3.3 for further details of this adjustment and the financial statement impact arising.
 RMBS - Residential Mortgage Backed Security
 CMBS - Commercial Mortgage Backed Security
 ABS - Asset Backed Security
 CD0 - Collateralised Debt Obligation, CL0 - Collateralised Loan Obligation
 ABC - Asset Backed Security

D3 – Analysis of asset quality continued

D3.3 - Financial investments continued

D3.3.1 - Debt securities continued

| | | | | | External ratings | | |
|--|-----------|----------|---------|-----------|---------------------|-----------------|-------------|
| Debt securities – Policyholders assets 2017 | AAA £m | AA £m | A £m | BBB £m | Less than BBB £m | Non-rated £m | Total £m |
| Government | | | | | | | |
| UK Government | 164 | 8,871 | _ | _ | 138 | _ | 9,173 |
| UK local authorities | - | - | — | _ | - | — | _ |
| Non-UK Government | 1,724 | 166 | 1,557 | 1,431 | 603 | 234 | 5,715 |
| | 1,888 | 9,037 | 1,557 | 1,431 | 741 | 234 | 14,888 |
| Corporate | | | | | | | |
| Public utilities | - | 17 | 431 | 392 | 363 | 5 | 1,208 |
| Convertibles and bonds with warrants | - | _ | _ | | _ | _ | |
| Other corporate bonds | 436 | 433 | 3,867 | 2,462 | 3,325 | 2,019 | 12,542 |
| | 436 | 450 | 4,298 | 2,854 | 3,688 | 2,024 | 13,750 |
| Certificates of deposits | - | 377 | 557 | _ | - | 13 | 947 |
| Structured | | | | | | | |
| RMBS ² non-agency ALT A | - | _ | _ | _ | _ | _ | _ |
| RMBS ² non-agency prime | - | 2 | 12 | — | — | — | 14 |
| RMBS ² agency | - | _ | _ | _ | _ | _ | _ |
| | — | 2 | 12 | _ | — | — | 14 |
| CMBS ³ | 4 | 10 | 23 | _ | _ | _ | 37 |
| ABS ⁴ | - | _ | 35 | 2 | 22 | — | 59 |
| CDO (including CLO) ⁵ | - | _ | _ | _ | - | _ | - |
| ABCP ⁶ | - | _ | _ | _ | _ | _ | _ |
| | 4 | 10 | 58 | 2 | 22 | — | 96 |
| Wrapped credit | - | _ | _ | 4 | - | _ | 4 |
| Other | 9 | 24 | 75 | 401 | 561 | 218 | 1,288 |
| Total | 2,337 | 9,900 | 6,557 | 4,692 | 5,012 | 2,489 | 30,987 |
| Total % | 7.6% | 31.9% | 21.2% | 15.1% | 16.2% | 8.0% | 100.0% |
| Assets of operations classified as held for sale | 1 | _ | 2 | 346 | 6 | 11 | 366 |
| Total (excluding assets held for sale) | 2,336 | 9,900 | 6,555 | 4,346 | 5,006 | 2,478 | 30,621 |
| Total % (excluding assets held for sale) | 7.7% | 32.3% | 21.4% | 14.2% | 16.3% | 8.1% | 100.0% |
| 2016 Total ¹ | 1,661 | 8,946 | 5,011 | 6,028 | 4,002 | 3,869 | 29,517 |
| 2016 Total % | 5.6% | 30.3% | 17.0% | 20.4% | 13.6% | 13.1% | 100.0% |
| | | | | | | | |

Following a review of the Group's investment classification, comparative amounts in respect of unit trusts and other investment vehicles and equity and debt securities have been amended from those previously reported. Refer to D3.3 for further details of this adjustment and the financial statement impact arising.
 RMBS - Residential Mortgage Backed Security
 CMBS - Commercial Mortgage Backed Security
 ABS - Asset Backed Security
 CD0 - Collateralised Debt Obligation, CL0 - Collateralised Loan Obligation
 ABC - Asset Backed Security

D3 – Analysis of asset quality continued

D3.3 - Financial investments continued

| | | | | I | External ratings | | |
|--|-----------|----------|---------|-----------|---------------------|-----------------|-------------|
| Debt securities – Participating fund assets 2017 | AAA £m | AA £m | A £m | BBB £m | Less than BBB £m | Non-rated £m | Total £m |
| Government | | | | | | | |
| UK Government | _ | 10,285 | 1 | _ | _ | 33 | 10,319 |
| UK local authorities | _ | 1 | _ | _ | 1 | _ | 2 |
| Non-UK Government | 4,350 | 16,511 | 3,205 | 9,915 | 1,077 | 317 | 35,375 |
| | 4,350 | 26,797 | 3,206 | 9,915 | 1,078 | 350 | 45,696 |
| Corporate | | | | | | | |
| Public utilities | 2 | 61 | 1,241 | 2,799 | 277 | 184 | 4,564 |
| Convertibles and bonds with warrants | - | _ | _ | 9 | _ | - | 9 |
| Other corporate bonds | 4,480 | 2,854 | 10,531 | 12,928 | 4,167 | 3,403 | 38,363 |
| | 4,482 | 2,915 | 11,772 | 15,736 | 4,444 | 3,587 | 42,936 |
| Certificates of deposits | - | _ | _ | _ | _ | _ | _ |
| Structured | | | | | | | |
| RMBS ² non-agency ALT A | _ | _ | _ | _ | _ | - | _ |
| RMBS ² non-agency prime | 11 | 15 | 16 | _ | 10 | - | 52 |
| RMBS ² agency | - | - | - | _ | _ | _ | _ |
| | 11 | 15 | 16 | _ | 10 | - | 52 |
| CMBS ³ | 80 | 9 | 117 | _ | 1 | _ | 207 |
| ABS ⁴ | — | 91 | 160 | 59 | 16 | - | 326 |
| CDO (including CLO) ⁵ | 377 | — | — | - | _ | - | 377 |
| ABCP ⁶ | - | - | - | - | _ | - | — |
| | 457 | 100 | 277 | 59 | 17 | _ | 910 |
| Wrapped credit | _ | 5 | 81 | 10 | _ | _ | 96 |
| Other | 42 | 114 | 351 | 1,898 | 2,653 | 1,027 | 6,085 |
| Total | 9,342 | 29,946 | 15,703 | 27,618 | 8,202 | 4,964 | 95,775 |
| Total % | 9.7% | 31.3% | 16.4% | 28.8% | 8.6% | 5.2% | 100.0% |
| Assets of operations classified as held for sale | _ | _ | _ | _ | _ | _ | _ |
| Total (excluding assets held for sale) | 9,342 | 29,946 | 15,703 | 27,618 | 8,202 | 4,964 | 95,775 |
| Total % (excluding assets held for sale) | 9.7% | 31.3% | 16.4% | 28.8% | 8.6% | 5.2% | 100.0% |
| 2016 Total ¹ | 13,070 | 33,782 | 16,508 | 29,533 | 6,586 | 4,218 | 103,697 |
| 2016 Total % | 12.5% | 32.6% | 15.9% | 28.5% | 6.4% | 4.1% | 100.0% |
| | | | | | | | |

Following a review of the Group's investment classification, comparative amounts in respect of unit trusts and other investment vehicles and equity and debt securities have been amended from those previously reported. Refer to D3.3 for further details of this adjustment and the financial statement impact arising.
 RMBS - Residential Mortgage Backed Security
 CMBS - Commercial Mortgage Backed Security
 ABS - Asset Backed Security
 CD0 - Collateralised Debt Obligation, CL0 - Collateralised Loan Obligation
 ABC - Asset Backed Security

Total

10,750

11,651 22,418

5,357

19,076

24,433

79

126

53 179

399

769

_

_ 1,168

539

370

49,186 100.0% 774 48,412

100.0%

53,494

100.0%

£m

17

Analysis of assets continued

D3 – Analysis of asset quality continued

D3.3 - Financial investments continued D

| | | | | I | External ratings | |
|--|-----------|----------|---------|-----------|---------------------|----------------|
| Debt securities - Shareholder assets 2017 | AAA £m | AA £m | A £m | BBB £m | Less than BBB £m | Non-rate £n |
| Government | | | | | | |
| UK Government | _ | 10,600 | 74 | _ | _ | 70 |
| UK local authorities | - | _ | _ | - | _ | 1 |
| Non-UK Government | 4,683 | 3,925 | 1,395 | 1,097 | 9 | 542 |
| | 4,683 | 14,525 | 1,469 | 1,097 | 9 | 635 |
| Corporate | | | | | | |
| Public utilities | _ | 97 | 2,493 | 2,326 | 30 | 411 |
| Convertibles and bonds with warrants | _ | | _ | | _ | |
| Other corporate bonds | 2,028 | 2,353 | 8,057 | 4,982 | 196 | 1,460 |
| | 2,028 | 2,450 | 10,550 | 7,308 | 226 | 1,871 |
| Certificates of deposits | - | _ | _ | _ | _ | 79 |
| Structured | | | | | | |
| RMBS ² non-agency ALT A | _ | _ | — | — | _ | _ |
| RMBS ² non-agency prime | 1 | 10 | 65 | 1 | 49 | - |
| RMBS ² agency | 53 | - | - | - | - | |
| | 54 | 10 | 65 | 1 | 49 | _ |
| CMBS ³ | 233 | 16 | 149 | - | _ | 1 |
| ABS ⁴ | 38 | 374 | 274 | 40 | 43 | _ |
| CDO (including CLO)⁵ ABCP ⁶ | - | — | _ | _ | _ | - |
| ABCP- | _ | | - | - | | |
| | 271 | 390 | 423 | 40 | 43 | 1 |
| Wrapped credit | _ | 13 | 404 | 67 | 43 | 12 |
| Other | 3 | 6 | 21 | 124 | 156 | 60 |
| Total | 7,039 | 17,394 | 12,932 | 8,637 | 526 | 2,658 |
| Total % | 14.2% | 35.4% | 26.3% | 17.6% | 1.1% | 5.4% |
| Assets of operations classified as held for sale | 67 | 25 | 6 | 671 | 5 | _ |
| Total (excluding assets held for sale) | 6,972 | 17,369 | 12,926 | 7,966 | 521 | 2,658 |
| Total % (excluding assets held for sale) | 14.3% | 35.9% | 26.7% | 16.5% | 1.1% | 5.5% |
| 2016 Total ¹ | 7,299 | 19,767 | 13,884 | 9,099 | 575 | 2,870 |
| 2016 Total % | 13.7% | 36.8% | 26.0% | 17.0% | 1.1% | 5.4% |

1 Following a review of the Group's investment classification, comparative amounts in respect of unit trusts and other investment vehicles and equity and debt securities have been amended from those previously reported. Refer to D3.3 for further details of this adjustment and the financial statement impact arising. 2

RMBS – Residential Mortgage Backed Security CMBS – Commercial Mortgage Backed Security

ABS - Asset Backed Security

CDO – Collateralised Debt Obligation, CLO – Collateralised Loan Obligation ABCP – Asset Backed Commercial Paper

Within shareholder assets debt securities, 46% of exposure is in government holdings (2016: 43%). Our corporate debt securities portfolio represents 50% of total shareholder debt securities (2016: 52%). At 31 December 2017, the proportion of our shareholder debt securities that are investment grade is 93.5% (2016: 93.5%). The remaining 6.5% of shareholder debt securities that do not have an external rating of BBB or higher can be split as follows:

1.1% are debt securities that are rated as below investment grade;

• 5.4% are not rated by the major rating agencies.

The majority of non-rated corporate bonds are held by our businesses in the UK. Of the securities not rated by an external agency most are allocated an internal rating using a methodology largely consistent with that adopted by an external rating agency, and are considered to be of investment grade credit quality; these include £2.0 billion (2016: £2.3 billion) of debt securities held in our UK Life business, predominantly made up of private placements and other corporate bonds, which have been internally rated as investment grade.

The Group has limited shareholder exposure to CDOs, CLOs and 'Sub-prime' debt securities.

Out of the total asset backed securities (ABS), £713 million (2016: £948 million) are held by the UK Life business. The Group's shareholder holdings in ABS are investment grade of 94.1% (2016: 95.7%). ABS that either have a rating below BBB or are not rated, represent approximately 0.1% of shareholder exposure to debt securities (2016: 0.1%).

D3 – Analysis of asset quality continued

D3.3 - Financial investments continued

D3.3.2 - Equity securities

| | | | | 2017 | | | | 2016 ¹ |
|--|---------------|---------------|---------------|-------------|---------------|---------------|---------------|-------------------|
| | | Fair val | ue hierarchy | | | | | |
| Equity securities - Total assets | Level 1 £m | Level 2 £m | Level 3 £m | Total £m | Level 1 £m | Level 2 £m | Level 3 £m | Total £m |
| Public utilities | 2,402 | _ | _ | 2,402 | 2,188 | _ | _ | 2,188 |
| Banks, trusts and insurance companies | 24,088 | _ | 208 | 24,296 | 16,162 | _ | 190 | 16,352 |
| Industrial miscellaneous and all other | 62,579 | — | 642 | 63,221 | 53,138 | _ | 723 | 53,861 |
| Non-redeemable preferred shares | 244 | _ | — | 244 | 305 | _ | _ | 305 |
| Total | 89,313 | _ | 850 | 90,163 | 71,793 | — | 913 | 72,706 |
| Total % | 99.1% | _ | 0.9% | 100.0% | 98.7% | _ | 1.3% | 100.0% |
| Assets of operations classified as held for sale | 121 | _ | 74 | 195 | 664 | _ | _ | 664 |
| Total (excluding assets held for sale) | 89,192 | _ | 776 | 89,968 | 71,129 | _ | 913 | 72,042 |
| Total % (excluding assets held for sale) | 99.1% | — | 0.9% | 100.0% | 98.7% | _ | 1.3% | 100.0% |

| | | | | 2017 | | | | 2016 ¹ |
|--|---------------|---------------|---------------|-------------|---------------|---------------|---------------|-------------------|
| | | Fair val | ue hierarchy | | | Fair val | ue hierarchy | |
| Equity securities - Policyholder assets | Level 1 £m | Level 2 £m | Level 3 £m | Total £m | Level 1 £m | Level 2 £m | Level 3 £m | Total £m |
| Public utilities | 2,042 | _ | _ | 2,042 | 1,767 | _ | _ | 1,767 |
| Banks, trusts and insurance companies | 19,784 | _ | 13 | 19,797 | 12,322 | _ | 5 | 12,327 |
| Industrial miscellaneous and all other | 52,179 | _ | 64 | 52,243 | 41,447 | _ | 19 | 41,466 |
| Non-redeemable preferred shares | 28 | _ | _ | 28 | 91 | _ | _ | 91 |
| Total | 74,033 | _ | 77 | 74,110 | 55,627 | _ | 24 | 55,651 |
| Total % | 99.9% | _ | 0.1% | 100.0% | 100.0% | _ | _ | 100.0% |
| Assets of operations classified as held for sale | 115 | _ | 74 | 189 | 8 | _ | _ | 8 |
| Total (excluding assets held for sale) | 73,918 | _ | 3 | 73,921 | 55,619 | _ | 24 | 55,643 |
| Total % (excluding assets held for sale) | 100.0% | _ | _ | 100.0% | 100.0% | _ | | 100.0% |

| | | | | 2017 | | | | 2016 ¹ |
|--|---------------|---------------|---------------|-------------|---------------|---------------|---------------|-------------------|
| | | Fair val | ue hierarchy | | | Fairva | lue hierarchy | |
| Equity securities - Participating fund assets | Level 1 £m | Level 2 £m | Level 3 £m | Total £m | Level 1 £m | Level 2 £m | Level 3 £m | Total £m |
| Public utilities | 356 | _ | _ | 356 | 415 | _ | _ | 415 |
| Banks, trusts and insurance companies | 4,270 | _ | 89 | 4,359 | 3,715 | _ | 104 | 3,819 |
| Industrial miscellaneous and all other | 9,776 | _ | 563 | 10,339 | 11,585 | _ | 689 | 12,274 |
| Non-redeemable preferred shares | 4 | _ | _ | 4 | 8 | _ | _ | 8 |
| Total | 14,406 | _ | 652 | 15,058 | 15,723 | _ | 793 | 16,516 |
| Total % | 95.7% | _ | 4.3% | 100.0% | 95.2% | _ | 4.8% | 100.0% |
| Assets of operations classified as held for sale | _ | _ | _ | _ | 656 | _ | _ | 656 |
| Total (excluding assets held for sale) | 14,406 | _ | 652 | 15,058 | 15,067 | _ | 793 | 15,860 |
| Total % (excluding assets held for sale) | 95.7% | _ | 4.3% | 100.0% | 95.0% | _ | 5.0% | 100.0% |

| | | | | 2017 | | | | 2016 |
|--|---------------|---------------|---------------|-------------|---------------|---------------|----------------|-------------|
| | | Fair va | lue hierarchy | | | Fair va | alue hierarchy | |
| Equity securities – Shareholder assets | Level 1 £m | Level 2 £m | Level 3 £m | Total £m | Level 1 £m | Level 2 £m | Level 3 £m | Total £m |
| Public utilities | 4 | _ | _ | 4 | 6 | _ | _ | 6 |
| Banks, trusts and insurance companies | 34 | _ | 106 | 140 | 125 | _ | 81 | 206 |
| Industrial miscellaneous and all other | 624 | — | 15 | 639 | 106 | — | 15 | 121 |
| Non-redeemable preferred shares | 212 | _ | - | 212 | 206 | _ | _ | 206 |
| Total | 874 | _ | 121 | 995 | 443 | _ | 96 | 539 |
| Total % | 87.8% | _ | 12.2% | 100.0% | 82.2% | _ | 17.8% | 100.0% |
| Assets of operations classified as held for sale | 6 | _ | _ | 6 | _ | _ | _ | _ |
| Total (excluding assets held for sale) | 868 | _ | 121 | 989 | 443 | _ | 96 | 539 |
| Total % (excluding assets held for sale) | 87.8% | _ | 12.2% | 100.0% | 82.2% | _ | 17.8% | 100.0% |

Within our total shareholder exposure to equity securities 87.8% is based on quoted prices in an active market and as such is classified as level 1 (2016: 82.2%).

D3 – Analysis of asset quality continued D3.3 – Financial investments continued D3.3.3 – Other investments

| vs.s.s | - Other | nivesu | nents |
|--------|---------|--------|-------|
| | | | |

| | | | | 2017 | | | | 20161 |
|---|---------------|---------------|---------------|-------------|---------------|---------------|---------------|-------------|
| | | Fair val | ue hierarchy | | | Fair va | lue hierarchy | |
| Other investments – Total | Level 1 £m | Level 2 £m | Level 3 £m | Total £m | Level 1 £m | Level 2 £m | Level 3 £m | Total £m |
| Unit trusts and other investment vehicles | 42,518 | 437 | 2,711 | 45,666 | 39,348 | 956 | 2,758 | 43,062 |
| Derivative financial instruments | 370 | 4,730 | 407 | 5,507 | 596 | 5,376 | 147 | 6,119 |
| Deposits with credit institutions | 161 | _ | _ | 161 | 325 | _ | _ | 325 |
| Minority holdings in property management undertakings | _ | 27 | 1,408 | 1,435 | _ | 27 | 1,159 | 1,186 |
| Other | 507 | _ | 1 | 508 | 435 | _ | _ | 435 |
| Total | 43,556 | 5,194 | 4,527 | 53,277 | 40,704 | 6,359 | 4,064 | 51,127 |
| Total % | 81.8% | 9.7% | 8.5% | 100.0% | 79.6% | 12.4% | 8.0% | 100.0% |
| Assets of operations classified as held for sale | 5,307 | _ | 1,664 | 6,971 | 2,122 | 119 | 63 | 2,304 |
| Total (excluding assets held for sale) | 38,249 | 5,194 | 2,863 | 46,306 | 38,582 | 6,240 | 4,001 | 48,823 |
| Total % (excluding assets held for sale) | 82.6% | 11.2% | 6.2% | 100.0% | 79.0% | 12.8% | 8.2% | 100.0% |

| | | | | 2017 | | | | 2016 ¹ |
|---|---------------|---------------|---------------|-------------|---------------|---------------|---------------|-------------------|
| | | Fair val | ue hierarchy | | | Fair va | lue hierarchy | |
| Other investments – Policyholder assets | Level 1 £m | Level 2 £m | Level 3 £m | Total £m | Level 1 £m | Level 2 £m | Level 3 £m | Total £m |
| Unit trusts and other investment vehicles | 39,550 | 260 | 1,670 | 41,480 | 36,548 | 853 | 1,692 | 39,093 |
| Derivative financial instruments | 108 | 13 | _ | 121 | 63 | 32 | _ | 95 |
| Deposits with credit institutions | 147 | _ | _ | 147 | 294 | _ | _ | 294 |
| Minority holdings in property management undertakings | _ | _ | 183 | 183 | — | — | 172 | 172 |
| Other | 437 | _ | _ | 437 | 427 | _ | _ | 427 |
| Total | 40,242 | 273 | 1,853 | 42,368 | 37,332 | 885 | 1,864 | 40,081 |
| Total % | 95.0% | 0.6% | 4.4% | 100.0% | 93.1% | 2.2% | 4.7% | 100.0% |
| Assets of operations classified as held for sale | 5,231 | _ | 1,660 | 6,891 | 1,876 | 85 | 39 | 2,000 |
| Total (excluding assets held for sale) | 35,011 | 273 | 193 | 35,477 | 35,456 | 800 | 1,825 | 38,081 |
| Total % (excluding assets held for sale) | 98.7% | 0.8% | 0.5% | 100.0% | 93.1% | 2.1% | 4.8% | 100.0% |

| | | | | 2017 | | | | 2016 ¹ |
|---|---------------|---------------|---------------|-------------|---------------|---------------|----------------|-------------------|
| | | Fair va | lue hierarchy | | | Fair va | alue hierarchy | |
| Other investments - Participating fund assets | Level 1 £m | Level 2 £m | Level 3 £m | Total £m | Level 1 £m | Level 2 £m | Level 3 £m | Total £m |
| Unit trusts and other investment vehicles | 1,697 | 177 | 996 | 2,870 | 1,107 | 94 | 1,032 | 2,233 |
| Derivative financial instruments | 216 | 2,873 | 34 | 3,123 | 492 | 3,508 | 102 | 4,102 |
| Deposits with credit institutions | 10 | _ | _ | 10 | 28 | _ | _ | 28 |
| Minority holdings in property management undertakings | _ | _ | 1,020 | 1,020 | _ | — | 825 | 825 |
| Other | _ | - | _ | - | - | - | - | - |
| Total | 1,923 | 3,050 | 2,050 | 7,023 | 1,627 | 3,602 | 1,959 | 7,188 |
| Total % | 27.4% | 43.4% | 29.2% | 100.0% | 22.6% | 50.1% | 27.3% | 100.0% |
| Assets of operations classified as held for sale | _ | _ | _ | _ | 246 | 34 | 24 | 304 |
| Total (excluding assets held for sale) | 1,923 | 3,050 | 2,050 | 7,023 | 1,381 | 3,568 | 1,935 | 6,884 |
| Total % (excluding assets held for sale) | 27.4% | 43.4% | 29.2% | 100.0% | 20.1% | 51.8% | 28.1% | 100.0% |

| | | | | 2017 | | | | 2016 |
|---|---------------|---------------|---------------|-------------|---------------|---------------|---------------|-------------|
| | | Fair va | lue hierarchy | | | Fair va | lue hierarchy | |
| Other investments - Shareholders assets | Level 1 £m | Level 2 £m | Level 3 £m | Total £m | Level 1 £m | Level 2 £m | Level 3 £m | Total £m |
| Unit trusts and other investment vehicles | 1,271 | _ | 45 | 1,316 | 1,693 | 9 | 34 | 1,736 |
| Derivative financial instruments | 46 | 1,844 | 373 | 2,263 | 41 | 1,836 | 45 | 1,922 |
| Deposits with credit institutions | 4 | _ | _ | 4 | 3 | — | — | 3 |
| Minority holdings in property management undertakings | _ | 27 | 205 | 232 | — | 27 | 162 | 189 |
| Other | 70 | _ | 1 | 71 | 8 | _ | - | 8 |
| Total | 1,391 | 1,871 | 624 | 3,886 | 1,745 | 1,872 | 241 | 3,858 |
| Total % | 35.8% | 48.1% | 16.1% | 100.0% | 45.2% | 48.5% | 6.3% | 100.0% |
| Assets of operations classified as held for sale | 76 | _ | 4 | 80 | _ | _ | _ | _ |
| Total (excluding assets held for sale) | 1,315 | 1,871 | 620 | 3,806 | 1,745 | 1,872 | 241 | 3,858 |
| Total % (excluding assets held for sale) | 34.5% | 49.2% | 16.3% | 100.0% | 45.2% | 48.5% | 6.3% | 100.0% |

D3 – Analysis of asset quality continued

D3.3 – Financial investments continued

D3.3.3 - Other investments continued

The unit trusts and other investment vehicles invest in a variety of assets, which can include cash equivalents, debt, equity and property securities. Total shareholder other investments classified as level 2 decreased during 2017 to 48.1% (*2016: 48.5%*), primarily due a decrease in Unit trusts and other investment vehicles. Total shareholder other investments classified as level 3 have increased during 2017 to 16.1% (*2016: 6.3%*), primarily due to disposals in minority holdings in property management undertakings.

In total 83.9% (2016: 93.7%) of total shareholder other investments are classified as level 1 or 2 in the fair value hierarchy.

D3.3.4 - Available for sale investments - Impairments and duration and amount of unrealised losses

The impairment expense during 2017 relating to AFS debt securities and other investments was £nil (2016: £nil) and £nil (2016: £nil) respectively.

Total unrealised losses on AFS debt securities, equity securities and other investments at 31 December 2017 was £1 million (2016: £2 million), £nil (2016: £nil) and £nil (2016: £nil) respectively.

| | | 0 – 6 months | | 7 – 12 months | more th | an 12 months | Tota | |
|--|-------------------------------|---------------------------|-------------------------------|---------------------------|-------------------------------|---------------------------|-------------------------------|---------------------------|
| 2017 | Fair value ¹ £m | Gross unrealised £m |
| Less than 20% loss position: | | | | | | | | |
| Debt securities | _ | _ | 3 | _ | 47 | (1) | 50 | (1) |
| Equity securities | _ | _ | _ | _ | _ | _ | _ | _ |
| Other investments | _ | _ | _ | — | _ | _ | — | — |
| | _ | _ | 3 | _ | 47 | (1) | 50 | (1) |
| 20%-50% loss position: | | | | | | | | |
| Debt securities | _ | _ | _ | _ | _ | _ | _ | _ |
| Equity securities | - | _ | - | — | — | — | — | — |
| Other investments | _ | — | — | — | - | — | - | — |
| | _ | _ | _ | - | - | _ | _ | - |
| Greater than 50% loss position: | | | | | | | | |
| Debt securities | _ | _ | _ | _ | _ | _ | _ | _ |
| Equity securities | _ | _ | _ | _ | _ | _ | _ | - |
| Other investments | — | - | — | — | — | — | — | _ |
| | - | _ | _ | — | - | _ | _ | _ |
| Total | | | | | | | | |
| Debt securities | _ | _ | 3 | _ | 47 | (1) | 50 | (1) |
| Equity securities | _ | _ | _ | _ | _ | _ | _ | _ |
| Other investments | - | - | _ | _ | - | _ | - | - |
| | _ | _ | 3 | _ | 47 | (1) | 50 | (1) |
| Assets of operations classified as held for sale | _ | _ | _ | _ | _ | _ | _ | _ |
| Total (excluding assets held for sale) | _ | _ | 3 | _ | 47 | (1) | 50 | (1) |
| | | | | | | | | |

1 Only includes AFS securities that are in unrealised loss positions.

| | | 0 – 6 months | | 7 – 12 months | more th | ian 12 months | | Total |
|--|---------------------------|-------------------------------|---------------------------|-------------------------------|---------------------------|-------------------------------|---------------------------|-------------------------------|
| 2016 | Gross unrealised £m | Fair value ¹ £m |
| Less than 20% loss position: | | | | | | | | |
| Debt securities | _ | _ | 6 | _ | 73 | (2) | 79 | (2) |
| Equity securities | _ | _ | _ | _ | _ | _ | _ | _ |
| Other investments | — | _ | _ | _ | _ | _ | _ | _ |
| | _ | _ | 6 | _ | 73 | (2) | 79 | (2) |
| 20%-50% loss position: | | | | | | | | |
| Debt securities | _ | _ | _ | _ | _ | _ | _ | _ |
| Equity securities | — | — | _ | _ | — | — | — | _ |
| Other investments | _ | _ | _ | _ | _ | _ | _ | _ |
| | — | _ | _ | — | _ | _ | — | _ |
| Greater than 50% loss position: | | | | | | | | |
| Debt securities | — | _ | — | _ | — | _ | | _ |
| Equity securities | - | _ | _ | _ | _ | — | _ | _ |
| Other investments | _ | _ | _ | _ | _ | _ | _ | _ |
| | — | _ | _ | _ | _ | _ | _ | _ |
| Total | | | | | | | | |
| Debt securities | — | — | 6 | _ | 73 | (2) | 79 | (2) |
| Equity securities | — | — | _ | _ | _ | _ | _ | _ |
| Other investments | — | — | _ | _ | _ | _ | _ | _ |
| | — | _ | 6 | _ | 73 | (2) | 79 | (2) |
| Assets of operations classified as held for sale | | _ | _ | _ | _ | _ | _ | _ |
| Total (excluding assets held for sale) | _ | _ | 6 | _ | 73 | (2) | 79 | (2) |
| 1 Only includes AFE accurities that are in unrealized lass positions | | | | | | | | |

1 Only includes AFS securities that are in unrealised loss positions.

D3 – Analysis of asset quality continued

D3.3 – Financial investments continued

D3.3.5 – Exposures to peripheral European countries

Included in our debt securities and other financial assets are exposures to peripheral European countries. All of these assets are valued on a mark-to-market basis under IAS 39, and therefore our statement of financial position and income statement already reflect any reduction in value between the date of purchase and the balance sheet date. The significant majority of these holdings are within our participating funds where the risk to our shareholders is governed by the nature and extent of our participation within those funds.

Net of non-controlling interests, our direct shareholder and participating fund asset exposure to the government (and local authorities and agencies) of Italy is £6.6 billion (2016: £5.8 billion).

Direct sovereign exposures to Greece, Ireland, Portugal, Italy and Spain (net of non-controlling interests, excluding policyholder assets)

| | P | Participating | | hareholder | | Total |
|--|-------------|---------------|-------------|-------------|-------------|-------------|
| | 2017 £bn | 2016 £bn | 2017 £bn | 2016 £bn | 2017 £bn | 2016 £bn |
| Greece | _ | _ | _ | _ | _ | _ |
| Ireland | 0.7 | 0.7 | 0.1 | 0.1 | 0.8 | 0.8 |
| Portugal | 0.1 | 0.1 | _ | _ | 0.1 | 0.1 |
| Italy | 6.0 | 5.4 | 0.6 | 0.4 | 6.6 | 5.8 |
| Spain | 0.3 | 1.0 | — | 0.4 | 0.3 | 1.4 |
| Total Greece, Ireland, Portugal, Italy and Spain | 7.1 | 7.2 | 0.7 | 0.9 | 7.8 | 8.1 |

Direct sovereign exposures to Greece, Ireland, Portugal, Italy and Spain (gross of non-controlling interests, excluding policyholder assets)

| | Pa | articipating | SI | nareholder | | Total |
|--|-------------|--------------|-------------|-------------|-------------|-------------|
| | 2017 £bn | 2016 £bn | 2017 £bn | 2016 £bn | 2017 £bn | 2016 £bn |
| Greece | _ | _ | _ | _ | _ | _ |
| Ireland | 0.7 | 0.7 | 0.1 | 0.1 | 0.8 | 0.8 |
| Portugal | 0.1 | 0.1 | _ | _ | 0.1 | 0.1 |
| Italy | 8.2 | 7.5 | 0.8 | 0.5 | 9.0 | 8.0 |
| Spain | 0.3 | 1.4 | 0.2 | 0.7 | 0.5 | 2.1 |
| Total Greece, Ireland, Portugal, Italy and Spain | 9.3 | 9.7 | 1.1 | 1.3 | 10.4 | 11.0 |

D3.3.6 - Non-UK Government debt securities (gross of non-controlling interests)

| | | Policyholder | | Participating | | Shareholder | | Total |
|--|-------|-------------------|--------|-------------------|--------|-------------------|--------|--------|
| | 2017 | 2016 ¹ | 2017 | 2016 ¹ | 2017 | 2016 ¹ | 2017 | 2016 |
| Non-UK Government Debt Securities | £m | £m | £m | £m | £m | £m | £m | £m |
| Austria | 5 | 11 | 550 | 715 | 127 | 138 | 682 | 864 |
| Belgium | 22 | 21 | 967 | 1,273 | 314 | 357 | 1,303 | 1,651 |
| France | 133 | 115 | 13,454 | 13,285 | 2,093 | 1,859 | 15,680 | 15,259 |
| Germany | 127 | 142 | 1,437 | 1,629 | 615 | 606 | 2,179 | 2,377 |
| Greece | _ | - | _ | _ | _ | _ | _ | _ |
| Ireland | 3 | 3 | 679 | 662 | 84 | 130 | 766 | 795 |
| Italy | 183 | 223 | 8,223 | 7,500 | 823 | 556 | 9,229 | 8,279 |
| Netherlands | 43 | 47 | 88 | 976 | 322 | 329 | 453 | 1,352 |
| Poland | 845 | 807 | 790 | 769 | 598 | 384 | 2,233 | 1,960 |
| Portugal | 2 | 2 | 136 | 118 | _ | _ | 138 | 120 |
| Spain | 87 | 88 | 314 | 1,386 | 233 | 659 | 634 | 2,133 |
| European Supranational debt | 213 | 174 | 1,841 | 2,404 | 1,777 | 1,821 | 3,831 | 4,399 |
| Other European countries | 176 | 272 | 2,104 | 1,029 | 917 | 642 | 3,197 | 1,943 |
| Europe | 1,839 | 1,905 | 30,583 | 31,746 | 7,903 | 7,481 | 40,325 | 41,132 |
| Canada | 23 | 16 | 53 | 174 | 2,512 | 2,397 | 2,588 | 2,587 |
| United States | 1,443 | 1,424 | 661 | 871 | 531 | 1,022 | 2,635 | 3,317 |
| North America | 1,466 | 1,440 | 714 | 1,045 | 3,043 | 3,419 | 5,223 | 5,904 |
| Singapore | 14 | 2 | 558 | 904 | 297 | 330 | 869 | 1,236 |
| Other | 2,396 | 2,634 | 3,520 | 2,819 | 408 | 143 | 6,324 | 5,596 |
| Asia Pacific and other | 2,410 | 2,636 | 4,078 | 3,723 | 705 | 473 | 7,193 | 6,832 |
| Total | 5,715 | 5,981 | 35,375 | 36,514 | 11,651 | 11,373 | 52,741 | 53,868 |
| Assets of operations classified as held for sale | 1 | _ | _ | 2,325 | 531 | _ | 532 | 2,325 |
| Total (excluding assets held for sale) | 5,714 | 5,981 | 35,375 | 34,189 | 11,120 | 11,373 | 52,209 | 51,543 |

At 31 December 2017, the Group's total government (non-UK) debt securities stood at £52.7 billion (*2016: £53.9 billion*). The significant majority of these holdings are within our participating funds where the risk to our shareholders is governed by the nature and extent of our participation within those funds.

Our direct shareholder asset exposure to government (non-UK) debt securities amounts to £11.7 billion (*2016: £11.4 billion*). The primary exposures, relative to total shareholder (non-UK) government debt exposure, are to Canadian (22%), French (18%), Italian (7%), German (5%), Polish (5%), and US (5%) government debt securities.

| Overview Income & expenses IFRS Capital & liquidity Analysis of assets VNB & Sales analysis Other information | Overview | Income & expenses | IFRS | Capital & liquidity | Analysis of assets | VNB & Sales analysis | Other information |
|---|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|
|---|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|

D3 – Analysis of asset quality continued

D3.3 – Financial investments continued

D3.3.6 - Non-UK Government debt securities (gross of non-controlling interests) continued

The participating funds exposure to (non-UK) government debt amounts to £35.4 billion (*2016: £36.5 billion*). The primary exposures, relative to total (non-UK) government debt exposures included within our participating funds, are to the (non-UK) government debt securities of France (38%), Italy (23%), Germany (4%), Belgium (3%), Poland (2%), and Ireland (2%).

D3.3.7 - Exposure to worldwide bank debt securities

Direct shareholder and participating fund assets exposures to worldwide bank debt securities (net of non-controlling interests, excluding policyholder assets)

| Shareholder assets | | | | | Participating fund assets | | |
|-----------------------------|--|--|--|---|---|--|--|
| Total senior debt £bn | Total subordinated debt £bn | Total debt £bn | Total senior debt £bn | Total subordinated debt £bn | Total debt £bn | | |
| 0.2 | _ | 0.2 | 0.6 | 0.2 | 0.8 | | |
| _ | _ | _ | 0.6 | _ | 0.6 | | |
| 0.5 | 0.1 | 0.6 | 2.6 | 0.6 | 3.2 | | |
| _ | _ | _ | 0.5 | 0.3 | 0.8 | | |
| _ | _ | _ | - | — | _ | | |
| _ | _ | _ | 0.1 | — | 0.1 | | |
| 0.4 | 0.2 | 0.6 | 1.4 | 0.2 | 1.6 | | |
| 0.4 | _ | 0.4 | 0.3 | 0.1 | 0.4 | | |
| 0.2 | _ | 0.2 | 0.4 | 0.1 | 0.5 | | |
| _ | _ | _ | 1.3 | _ | 1.3 | | |
| 1.3 | 0.4 | 1.7 | 1.4 | 0.8 | 2.2 | | |
| 1.0 | 0.2 | 1.2 | 1.7 | 0.1 | 1.8 | | |
| 0.4 | 0.1 | 0.5 | 1.2 | 0.1 | 1.3 | | |
| 4.4 | 1.0 | 5.4 | 12.1 | 2.5 | 14.6 | | |
| _ | _ | _ | _ | _ | _ | | |
| 4.4 | 1.0 | 5.4 | 12.1 | 2.5 | 14.6 | | |
| 5.4 | 1.2 | 6.6 | 14.8 | 3.1 | 17.9 | | |
| | debt fbn 0.2 0.5 0.4 0.4 0.4 0.2 1.3 1.0 0.4 4.4 4.4 | Total senior debt fabr Total subordinated debt fabr 0.2 0.5 0.1 0.5 0.1 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.1 1.3 0.4 1.0 0.2 0.4 0.1 4.4 1.0 | Total debt debt febn Total debt febn 0.2 — 0.2 — — — 0.5 0.1 0.6 — — — 0.5 0.1 0.6 — — — — — — 0.4 0.2 0.6 0.4 0.2 0.6 0.4 0.2 0.6 0.4 0.2 0.6 0.4 0.2 0.2 — — — 1.3 0.4 1.7 1.0 0.2 1.2 0.4 0.1 0.5 4.4 1.0 5.4 — — — | Total senior debt febn Total senior debt febn< | Total Total senior subordinated debt Total total debt fbn Total senior debt fbn Total subordinated debt fbn Total senior debt fbn Total subordinated debt fbn 0.2 - 0.2 0.6 0.2 - - 0.6 - 0.6 0.5 0.1 0.6 2.6 0.6 - - - 0.6 - 0.5 0.1 0.6 2.6 0.6 - - - 0.5 0.3 - - - - - 0.4 0.2 0.6 1.4 0.2 0.4 0.2 0.6 1.4 0.2 0.4 - 0.4 0.3 0.1 0.2 - 0.2 0.4 0.1 0.2 - 0.2 0.4 0.1 0.1 0.2 1.2 1.7 0.1 0.4 0.1 0.5 1.2 0.1 0.4 0.1 0.5. | | |

Net of non-controlling interests, our direct shareholder assets exposure to worldwide bank debt securities is £5.4 billion (2016: £6.6 billion). The majority of our holding (81%) is in senior debt. The primary exposures are to UK (31%), US (22%), Dutch (11%), and French (11%) banks.

Net of non-controlling interests, the participating fund exposures to worldwide bank debt securities, where the risk to our shareholders is governed by the nature and extent of our participation within those funds, is £14.6 billion (2016: £17.9 billion). The majority of the exposure (83%) is in senior debt. Participating funds are most exposed to French (22%), UK (15%) and US (12%) banks.

Direct shareholder and participating fund assets exposures to worldwide bank debt securities (gross of non-controlling interests, excluding policyholder assets)

| | | Share | holder assets | | Participating fund assets | | |
|--|-----------------------------|--------------------------------------|-------------------|-----------------------------|--------------------------------------|-------------------|--|
| 2017 | Total senior debt £bn | Total subordinated debt £bn | Total debt £bn | Total senior debt £bn | Total subordinated debt £bn | Total debt £bn | |
| Australia | 0.2 | _ | 0.2 | 0.6 | 0.2 | 0.8 | |
| Denmark | _ | _ | _ | 0.6 | _ | 0.6 | |
| France | 0.5 | 0.1 | 0.6 | 2.7 | 0.6 | 3.3 | |
| Germany | _ | _ | _ | 0.6 | 0.3 | 0.9 | |
| Ireland | _ | _ | _ | _ | _ | _ | |
| Italy | _ | _ | _ | 0.2 | _ | 0.2 | |
| Netherlands | 0.4 | 0.2 | 0.6 | 1.4 | 0.2 | 1.6 | |
| Spain | 0.4 | _ | 0.4 | 0.3 | 0.1 | 0.4 | |
| Sweden | 0.2 | _ | 0.2 | 0.4 | 0.1 | 0.5 | |
| Switzerland | _ | _ | _ | 1.3 | _ | 1.3 | |
| United Kingdom | 1.3 | 0.4 | 1.7 | 1.5 | 0.8 | 2.3 | |
| United States | 1.0 | 0.2 | 1.2 | 1.7 | 0.1 | 1.8 | |
| Other | 0.4 | 0.1 | 0.5 | 1.2 | 0.1 | 1.3 | |
| Total | 4.4 | 1.0 | 5.4 | 12.5 | 2.5 | 15.0 | |
| Assets of operations classified as held for sale | _ | _ | _ | _ | _ | _ | |
| Total (excluding assets held for sale) | 4.4 | 1.0 | 5.4 | 12.5 | 2.5 | 15.0 | |
| 2016 Total | 5.5 | 1.2 | 6.7 | 16.2 | 3.3 | 19.5 | |

Gross of non-controlling interests, our direct shareholder assets exposure to worldwide bank debt securities is £5.4 billion (2016: £6.7 billion). The majority of our holding (81%) is in senior debt. The primary exposures are to UK (31%), US (22%), Dutch (11%), and French (11%) banks.

Gross of non-controlling interests, the participating fund exposures to worldwide bank debt securities, where the risk to our shareholders is governed by the nature and extent of our participation within those funds, is £15.0 billion (2016: £19.5 billion). The majority of the exposure (83%) is in senior debt. Participating funds are most exposed to French (22%), UK (15%) and US (12%) banks.

D3 – Analysis of asset quality continued

D3.4 – Reinsurance assets

The Group assumes and cedes reinsurance in the normal course of business, with retention limits varying by line of business. Reinsurance assets primarily include balances due from both insurance and reinsurance companies for ceded insurance liabilities. Amounts recoverable from reinsurers are estimated in a manner consistent with the outstanding claims provisions or settled claims associated with the reinsured policies and in accordance with the relevant reinsurance contract.

If a reinsurance asset is impaired, the Group reduces the carrying amount accordingly and recognises that impairment loss in the income statement. A reinsurance asset is impaired if there is objective evidence, as a result of an event that occurred after initial recognition of the reinsurance asset, that the Group may not receive all amounts due to it under the terms of the contract, and the event has a reliably measurable impact on the amounts that the Group will receive from the reinsurer.

For the table below, reinsurance asset credit ratings are stated in accordance with information from leading rating agencies.

| | | | | Ratings | | |
|-----------|---------------------------------------|---|---|--|---|--|
| AAA £m | AA £m | A £m | BBB £m | Less than BBB £m | Not rated £m | Total £m |
| _ | 5,335 | 511 | _ | _ | 257 | 6,103 |
| _ | 218 | 14 | 3 | _ | _ | 235 |
| _ | 6,327 | 588 | 261 | 3 | 98 | 7,277 |
| _ | 11,880 | 1,113 | 264 | 3 | 355 | 13,615 |
| _ | 87.3% | 8.2% | 1.9% | _ | 2.6% | 100.0% |
| _ | 51 | 70 | _ | _ | 2 | 123 |
| _ | 11,829 | 1,043 | 264 | 3 | 353 | 13,492 |
| _ | 87.7% | 7.7% | 2.0% | _ | 2.6% | 100.0% |
| _ | 24,608 | 1,689 | 14 | _ | 443 | 26,754 |
| _ | 92.0% | 6.3% | _ | _ | 1.7% | 100.0% |
| | £m — — — — — — — | £m 5,335 218 6,327 11,880 87.3% 51 51 87.7% 24,608 | fm fm 5,335 511 218 14 6,327 588 11,880 1,113 87.3% 8.2% 51 70 51 70 11,829 1,043 87.7% 7.7% 24,608 1,689 | £m £m £m 5,335 511 218 144 3 6,327 588 261 11,880 1,113 264 87.3% 8.2% 1.9% 511 70 11,829 1,043 264 87.7% 7.7% 2.0% 24,608 1,689 14 | AAA £m AA £m AA £m AA £m BBB £m Less than BBB £m - 5,335 511 - 218 14 3 - 6,327 588 261 3 - 6,327 588 261 3 - 87.3% 8.2% 1.9% - 51 70 - - 51 70 - - - 11,829 1,043 264 3 - 87.7% 7.7% 2.0% - - 24,608 1,689 14 - | AAA Em AA Em AA Em AA Em BBB Em Less than BBB Em Not rated Em 5,335 511 257 218 14 3 6,327 588 261 3 98 6,327 588 261 3 355 87.3% 8.2% 1.9% 2.6% 51 70 2 2 11,829 1,043 264 3 353 51 70 2 2 11,829 1,043 264 3 353 87.7% 7.7% 2.0% 2.6% 24,608 1,689 14 443 |

D3.5 - Receivables and other financial assets

The credit quality of receivables and other financial assets is managed at the local business unit level. Where assets classed as 'past due and impaired' exceed local credit limits, and are also deemed at sufficiently high risk of default, an analysis of the asset is performed and a decision is made whether to seek sufficient collateral from the counterparty or to write down the value of the asset as impaired. At 2017, 99% (*2016*: 99%) of the receivables and other financial assets were neither past due nor impaired.

Credit terms vary from subsidiary to subsidiary, and from country to country, and are set locally within overall credit limits prescribed by the Group credit limit framework, and in line with the Group Credit Policy. The carrying value of receivables is reviewed at each reporting period. If the carrying value of a receivable or other financial asset is greater than the recoverable amount, the carrying value is reduced through a charge to the income statement in the period of impairment.

D3.6 - Cash and cash equivalents

Cash and cash equivalents consist of cash at banks and in hand, deposits held at call with banks, treasury bills and other short-term highly liquid investments that are readily convertible to known amounts of cash and which are subject to an insignificant risk of change in value. Such investments are normally those with less than three months maturity from the date of acquisition, and include certificates of deposit with maturities of less than three months at the date of issue.

D4 – Pension fund assets

In addition to the assets recognised directly on the Group's statement of financial position outlined in the disclosures above, the Group is also exposed to the 'Scheme assets' that are shown net of the present value of scheme liabilities within the IAS 19 net pension surplus. Pension surpluses are included within other assets and pension deficits are recognised within provisions in the Group's consolidated statement of financial position. Refer to note B15 for details on the movements in the main schemes' surpluses and deficits. Scheme assets are stated at their fair values. Total scheme assets are comprised in the UK, Ireland and Canada as follows:

| | | | | 2017 | | | | 2016 |
|---|----------|---------------|--------------|-------------|----------|---------------|--------------|-------------|
| | UK £m | Ireland £m | Canada £m | Total £m | UK £m | Ireland £m | Canada £m | Total £m |
| Bonds | | | | | | | | |
| Fixed interest | 6,925 | 408 | 163 | 7,496 | 7,085 | 249 | 151 | 7,485 |
| Index-linked | 11,744 | 292 | _ | 12,036 | 11,469 | 157 | _ | 11,626 |
| Equities | 129 | _ | _ | 129 | 71 | _ | _ | 71 |
| Property | 365 | _ | _ | 365 | 338 | _ | _ | 338 |
| Pooled investment vehicles | 4,955 | 238 | 107 | 5,300 | 3,433 | 200 | 96 | 3,729 |
| Derivatives | (34) | 4 | _ | (30) | 86 | 1 | _ | 87 |
| Cash and other ¹ | (5,710) | (284) | 6 | (5,988) | (3,046) | 3 | 34 | (3,009) |
| Total fair value of scheme assets Less: consolidation elimination for non-transferable Group | 18,374 | 658 | 276 | 19,308 | 19,436 | 610 | 281 | 20,327 |
| insurance policy ² | (630) | _ | _ | (630) | (633) | _ | _ | (633) |
| Total IAS 19 fair value of scheme assets | 17,744 | 658 | 276 | 18,678 | 18,803 | 610 | 281 | 19,694 |

Cash and other assets comprise cash at bank, insurance policies, receivables, payables and repos. At 31 December 2017, cash and other assets primarily consist of repos of £5,386 million (2016: £4,666 million)

2 The Friends Provident Pension Scheme (FPPS) assets are included in the UK balances. As at 31 December 2017, the FPPS's cash and other balances includes an insurance policy of £630 million (2016: £633 million) issued by a Group company that is not transferable under IAS 19 and is consequently eliminated from the Group's IAS 19 scheme assets.

Total scheme assets are analysed by those that have a quoted price in an active market and those that do not as follows:

| | | 2017 | | | | | |
|--|--------------------|-------------------------|-------------|--------------------|-------------------------|-------------|--|
| | Total Quoted £m | Total Unquoted £m | Total £m | Total Quoted £m | Total Unquoted £m | Total £m | |
| Bonds | | | | | | | |
| Fixed interest | 4,334 | 3,162 | 7,496 | 3,697 | 3,788 | 7,485 | |
| Index-linked | 11,627 | 409 | 12,036 | 11,141 | 485 | 11,626 | |
| Equities | 35 | 94 | 129 | 71 | _ | 71 | |
| Property | _ | 365 | 365 | _ | 338 | 338 | |
| Pooled investment vehicles | 167 | 5,133 | 5,300 | 189 | 3,540 | 3,729 | |
| Derivatives | 4 | (34) | (30) | 70 | 17 | 87 | |
| Cash and other ¹ | (1,801) | (4,187) | (5,988) | 714 | (3,723) | (3,009) | |
| Total fair value of scheme assets | 14,366 | 4,942 | 19,308 | 15,882 | 4,445 | 20,327 | |
| Less: consolidation elimination for non-transferable Group insurance policy ² | _ | (630) | (630) | _ | (633) | (633) | |
| Total IAS 19 fair value of scheme assets | 14,366 | 4,312 | 18,678 | 15,882 | 3,812 | 19,694 | |

1 Cash and other assets comprise cash at bank, insurance policies, receivables, payables and repos. At 31 December 2017, cash and other assets primarily consist of repos of £5,386 million (2016: £4,666 million). 2 The Friends Provident Pension Scheme (FPPS) assets are included in the UK balances. As at 31 December 2017, the FPPS's cash and other balances includes an insurance policy of £630 million (2016: £633 million) issued by a Group company that is

2 The Friends Provident Pension Scheme (FPPS) assets are included in the UK balances. As at 31 December 2017, the FPPS's cash and other balances includes an insurance policy of £630 million (2016: £633 million) issued by a Group company that is not transferable under IAS 19 and is consequently eliminated from the Group's IAS 19 scheme assets.

Risk management and asset allocation strategy

The long-term investment objectives of the trustees and the employers are to limit the risk of the assets failing to meet the liabilities of the schemes over the long-term, and to maximise returns consistent with an acceptable level of risk so as to control the long-term costs of these schemes. To meet these objectives, the schemes' assets are invested in a portfolio consisting primarily of debt securities. The investment strategy will continue to evolve over time and is expected to match the liability profile increasingly closely with swap overlays to improve interest rate and inflation matching. The schemes are generally matched to interest rate risk relative to the funding basis.

Main UK Scheme

The Company works closely with the trustee, who is required to consult it on the investment strategy.

Interest rate and inflation risk are managed using a combination of liability-matching assets and swaps. Exposure to equity risk has been reducing over time and credit risk is managed within appetite. Currency risk is relatively small and is largely hedged. The other principal risk is longevity risk. This risk has reduced due to the Aviva Staff Pension Scheme entering into a longevity swap in 2014 covering approximately £5 billion of pensioner in payment scheme liabilities.

Other schemes

The other schemes are considerably less material but their risks are managed in a similar way to those in the main UK scheme. During 2015, the RAC pension scheme entered into a longevity swap covering approximately £600 million of pensioner in payment scheme liabilities.

| Overview | Income & expenses | IFRS | Capital & liquidity | Analysis of assets | VNB & Sales analysis | Other information |
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|

D5 – Available funds

To ensure access to liquidity as and when needed, the Group maintains £1.7 billion of undrawn committed central borrowing facilities with a range of leading international banks, all of which have investment grade credit ratings. These facilities are used to support the Group's commercial paper programme. The expiry profile of the undrawn committed central borrowing facilities is as follows:

| | 2017 £m | 2016 £m |
|--------------------------|------------|------------|
| Expiring within one year | _ | _ |
| Expiring beyond one year | 1,650 | 1,650 |
| Total | 1,650 | 1,650 |

D6 – Guarantees

As a normal part of their operating activities, various Group companies have given guarantees and options, including investment return guarantees, in respect of certain long-term insurance and fund management products.

For the UK Life with-profits business, provisions in respect of these guarantees and options are calculated on a market consistent basis, in which stochastic models are used to evaluate the level of risk (and additional cost) under a number of economic scenarios, which allow for the impact of volatility in both interest rates and equity prices. For UK Life non-profit business, provisions do not materially differ from those determined on a market consistent basis.

In all other businesses, provisions for guarantees and options are calculated on a local basis with sensitivity analysis undertaken where appropriate to assess the impact on provisioning levels of a movement in interest rates and equity levels (typically a 1% decrease in interest rates and 10% decline in equity markets).

IFRS

VNB & Sales analysis

| In this | section | Page |
|----------------|---|-------------------|
| E1 | Sales, VNB and new business margin analysis by market (adjusted Solvency II basis) | 123 |
| E2 | Trend analysis of adjusted Solvency II VNB – cumulative | 123 |
| E3 E4 E5 | Trend analysis of adjusted Solvency II VNB – discrete Trend analysis of PVNBP – cumulative Trend analysis of PVNBP – discrete | 124 124 124 |
| E6 | Trend analysis of PVNBP by product – cumulative | 125 |
| E7 E8 | Trend analysis of PVNBP by product – discrete Geographical analysis of regular and single premiums | 125 126 |
| E9 | Trend analysis of Investment sales – cumulative | 126 |
| E10 E11 | Trend analysis of Investment sales – discrete Trend analysis of general insurance and health net written premiums – cumulative net written premiums – cumulative | 126 127 |
| E12 | Trend analysis of general insurance and health net written premiums – discrete net written premiums – discrete | 127 |
| E13 | Reconciliation of sales to net written premiums in IFRS | 128 |
| E14 | Principal Assumptions underlying the calculation of VNB (on an adjusted SII basis) | 129 |

Income & expenses

VNB & Sales analysis

E1 – Sales, VNB and new business margin analysis by market (adjusted Solvency II basis)

IFRS

The table below sets out the present value of new business premiums (PVNBP) written by the life and related businesses, value generated by new business written during the period (VNB) and the resulting margin, gross of tax and non-controlling interests, on an adjusted Solvency II basis. Following the introduction of the Solvency II regime on 1 January 2016, MCEV (which was calculated on the expired Solvency I basis) is no longer used as an indicator of the drivers of financial performance of the Group's in-force Life and related businesses. The MCEV VNB and MCEV PVNBP were disclosed for the last time at 31 December 2016.

The VNB shown below is the present value of the projected stream of pre-tax distributable profit generated by the new business written during the period, including expected profit between point of sale and the valuation date on an adjusted Solvency II basis. It reflects the additional value to shareholders created through the activity of writing new business including the impacts of interactions between in-force and new business. The VNB and PVNBP for 2016 include £(12) million and £257 million respectively relating to the internal transfer of annuities from a with-profits fund to a non-profit fund during the second half of 2016 in the UK. The methodology underlying the calculation of adjusted Solvency II VNB remains unchanged from the prior year as set out in note 4. The demographic assumptions used are derived from an analysis of recent operating experience to give a best estimate of future experience. The demographic assumptions have been updated to reflect the position as at 31 December 2017 and produce an adjusted Solvency II VNB which is materially the same as using the assumptions used at 31 December 2016 as set out in D.2.2 of the Aviva 2016 Solvency and Financial Condition Report (SFCR). The economic assumptions have been updated to be those relevant at the point of sale which has been implemented with the assumptions being taken as those appropriate to the start of each quarter. For contracts that are re-priced more frequently, weekly or monthly economic assumptions have been used. The principal economic assumptions are set out in note E14. Adjusted Solvency II PVNBP is calculated using assumptions consistent with those used to determine the adjusted Solvency II VNB.

| | | Present value of new business premiums ¹ | | Value of new business ² | | New business margin ² |
|--|------------|--|------------|---------------------------------------|------------|-------------------------------------|
| Gross of tax and non-controlling interests | 2017 £m | 2016 £m | 2017 £m | 2016 £m | 2017 £m | 2016 £m |
| United Kingdom | 23,764 | 18,142 | 527 | 429 | 2.2% | 2.4% |
| France | 4,453 | 5,523 | 228 | 225 | 5.1% | 4.1% |
| Poland | 468 | 421 | 57 | 54 | 12.2% | 12.8% |
| Italy | 4,617 | 3,634 | 179 | 83 | 3.9% | 2.3% |
| Ireland ³ | 1,050 | 710 | 11 | 12 | 1.0% | 1.7% |
| Spain | 1,004 | 935 | 38 | 34 | 3.8% | 3.6% |
| Turkey | 473 | 455 | 20 | 21 | 4.2% | 4.6% |
| Europe | 12,065 | 11,678 | 533 | 429 | 4.4% | 3.7% |
| Asia | 2,719 | 2,372 | 162 | 106 | 6.0% | 4.5% |
| Aviva Investors | 2,247 | 2,845 | 21 | 28 | 0.9% | 1.0% |
| Total | 40,795 | 35,037 | 1,243 | 992 | 3.0% | 2.8% |

A reconciliation to IFRS net written premiums can be found in note E13.

This is an Alternative Performance Measure (APM) which provides useful information to enhance the understanding of financial performance. See the glossary for further details.

Following the launch of UK Insurance which hings together UK Life, UK General Insurance and UK Health into a combined business, the Ireland Life and General Insurance businesses have been aligned to the new management structure and reported with Europe. As a result, comparative balances have been restated.

E2 – Trend analysis of adjusted Solvency II VNB – cumulative

| | | | | | Gro | owth on 2H16 |
|--|----------------|----------------|----------------|----------------|---------------|---------------------------|
| Gross of tax and non-controlling interests | 1H16 YTD £m | 2H16 YTD £m | 1H17 YTD £m | 2H17 YTD £m | Sterling % | Constant currency % |
| United Kingdom ¹ | 200 | 429 | 267 | 527 | 23% | 23% |
| France ² | 101 | 225 | 120 | 228 | 1% | (5)% |
| Poland ³ | 22 | 54 | 28 | 57 | 5% | (4)% |
| Italy | 42 | 83 | 60 | 179 | 116% | 102% |
| Ireland ⁴ | 5 | 12 | 3 | 11 | (3)% | (9)% |
| Spain | 12 | 34 | 25 | 38 | 10% | 3% |
| Turkey | 11 | 21 | 10 | 20 | (7)% | 7% |
| Europe | 193 | 429 | 246 | 533 | 24% | 17% |
| Asia | 43 | 106 | 71 | 162 | 52% | 47% |
| Aviva Investors | 12 | 28 | 12 | 21 | (23)% | (23)% |
| Total | 448 | 992 | 596 | 1,243 | 25% | 21% |

Includes £(12) million relating to the internal transfer of annuities from a with-profits fund to a non-profit fund in 2H16.

France includes Antarius up until 2H16. Poland includes Lithuania.

Following the launch of UK Insurance which brings together UK Life, UK General Insurance and UK Health into a combined business, the Ireland Life and General Insurance businesses have been aligned to the new management structure and reported with Europe. As a result, comparative balances have been restated.

| Overview | Income & expenses | IFRS | Capital & liquidity | Analysis of assets | VNB & Sales analysis | Other information |
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|
| | | | | | | |

E3 - Trend analysis of adjusted Solvency II VNB - discrete

| | | | | | Gi | rowth on 2H16 |
|--|---------------------|---------------------|---------------------|---------------------|------------|------------------------|
| Gross of tax and non-controlling interests | 1H16 Discrete £m | 2H16 Discrete £m | 1H17 Discrete £m | 2H17 Discrete £m | Sterling % | Constant currency % |
| United Kingdom ¹ | 200 | 229 | 267 | 260 | 13% | 13% |
| France ² | 101 | 124 | 120 | 108 | (13)% | (19)% |
| Poland ³ | 22 | 32 | 28 | 29 | (8)% | (16)% |
| Italy | 42 | 41 | 60 | 119 | 192% | 173% |
| Ireland ⁴ | 5 | 7 | 3 | 8 | 22% | 14% |
| Spain | 12 | 22 | 25 | 13 | (43)% | (47)% |
| Turkey | 11 | 10 | 10 | 10 | (13)% | |
| Europe | 193 | 236 | 246 | 287 | 21% | 14% |
| Asia | 43 | 63 | 71 | 91 | 45% | 40% |
| Aviva Investors | 12 | 16 | 12 | 9 | (40)% | (40)% |
| Total | 448 | 544 | 596 | 647 | 19% | 15% |

Includes £(12) million relating to the internal transfer of annuities from a with-profits fund to a non-profit fund in 2H16. France includes Antarius up until 2H16. Poland includes Lithuania.

1 2 3

Following the launch of UK Insurance which brings together UK Life, UK General Insurance and UK Health into a combined business, the Ireland Life and General Insurance businesses have been aligned to the new management structure and reported with Europe. As a result, comparative balances have been restated. 4

E4 - Trend analysis of PVNBP - cumulative

| | | | | | Gro | owth on 2H16 |
|---|----------------|--------|----------------|----------------|---------------|---------------------------|
| Present value of new business premiums ¹ | 1H16 YTD £m | | 1H17 YTD £m | 2H17 YTD £m | Sterling % | Constant currency % |
| United Kingdom ² | 8,232 | 18,142 | 11,191 | 23,764 | 31% | 31% |
| France ³ | 2,898 | 5,523 | 2,405 | 4,453 | (19)% | (25)% |
| Poland ⁴ | 190 | 421 | 202 | 468 | 11% | 1% |
| Italy | 2,024 | 3,634 | 2,191 | 4,617 | 27% | 19% |
| Ireland ⁵ | 339 | 710 | 495 | 1,050 | 48% | 38% |
| Spain | 299 | 935 | 677 | 1,004 | 7% | _ |
| Turkey | 216 | 455 | 274 | 473 | 4% | 20% |
| Europe | 5,966 | 11,678 | 6,244 | 12,065 | 3% | (3)% |
| Asia | 982 | 2,372 | 1,328 | 2,719 | 15% | 11% |
| Aviva Investors | 1,388 | 2,845 | 1,262 | 2,247 | (21)% | (21)% |
| Total | 16,568 | 35,037 | 20,025 | 40,795 | 16% | 14% |

Present value of new business premiums (PVNBP) is the present value of new regular premiums plue 100% of single premiums, calculated using assumptions consistent with those used to determine the value of new business. Includes £257 million relating to the internal transfer of annuities from a with-profits fund to a non-profit fund in 2H16. France includes Antanius up until 2H16. 1

Poland includes Lithuania.

Following the launch of UK Insurance which brings together UK Life, UK General Insurance and UK Health into a combined business, the Ireland Life and General Insurance businesses have been aligned to the new management structure and reported with Europe. As a result, comparative balances have been restated. 5

E5 - Trend analysis of PVNBP - discrete

| | | | | | Gro | wth on 2H16 |
|---|---------------------|---------------------|---------------------|---------------------|---------------|---------------------------|
| Present value of new business premiums ¹ | 1H16 Discrete £m | 2H16 Discrete £m | 1H17 Discrete £m | 2H17 Discrete £m | Sterling % | Constant currency % |
| United Kingdom ² | 8,232 | 9,910 | 11,191 | 12,573 | 27% | 27% |
| France ³ | 2,898 | 2,625 | 2,405 | 2,048 | (22)% | (27)% |
| Poland ⁴ | 190 | 231 | 202 | 266 | 15% | 5% |
| Italy | 2,024 | 1,610 | 2,191 | 2,426 | 51% | 41% |
| Ireland ⁵ | 339 | 371 | 495 | 555 | 49% | 40% |
| Spain | 299 | 636 | 677 | 327 | (48)% | (52)% |
| Turkey | 216 | 239 | 274 | 199 | (16)% | (3)% |
| Europe | 5,966 | 5,712 | 6,244 | 5,821 | 2% | (4)% |
| Asia | 982 | 1,390 | 1,328 | 1,391 | _ | (3)% |
| Aviva Investors | 1,388 | 1,457 | 1,262 | 985 | (32)% | (32)% |
| Total | 16,568 | 18,469 | 20,025 | 20,770 | 12% | 10% |

Present value of new business premiums (PVNBP) is the present value of new regular premiums plus 100% of single premiums, calculated using assumptions consistent with those used to determine the value of new business. Includes £257 million relating to the internal transfer of annuities from a with-profits fund to a non-profit fund in 2H16. 1 2

3 France includes Antarius up until 2H16.

4 5

Poland includes Lithuania. Poland includes Lithuania. Following the launch of UK Insurance which brings together UK Life, UK General Insurance and UK Health into a combined business, the Ireland Life and General Insurance businesses have been aligned to the new management structure and reported with Europe. As a result, comparative balances have been restated

| Overview | Income & expenses | IFRS | Capital & liquidity | Analysis of assets | VNB & Sales analysis | Other information |
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|
| | | | | , | | |

E6 - Trend analysis of PVNBP by product - cumulative

| | | | | | Gro | owth on 2H16 |
|---|----------------|----------------|----------------|----------------|---------------|---------------------------|
| Present value of new business premiums ¹ | 1H16 YTD £m | 2H16 YTD £m | 1H17 YTD £m | 2H17 YTD £m | Sterling % | Constant currency % |
| Pensions | 5,578 | 11,615 | 7,169 | 14,430 | 24% | 24% |
| Annuities ² | 571 | 2,074 | 1,075 | 3,510 | 69% | 69% |
| Bonds | 62 | 141 | 70 | 284 | 101% | 101% |
| Protection | 887 | 1,770 | 1,006 | 1,964 | 11% | 11% |
| Equity release | 247 | 637 | 360 | 777 | 22% | 22% |
| Other | 887 | 1,905 | 1,511 | 2,799 | 47% | 47% |
| United Kingdom | 8,232 | 18,142 | 11,191 | 23,764 | 31% | 31% |
| Savings | 2,704 | 5,114 | 2,151 | 4,043 | (21)% | (26)% |
| Protection | 194 | 409 | 254 | 410 | _ | (6)% |
| France ³ | 2,898 | 5,523 | 2,405 | 4,453 | (19)% | (25)% |
| Pensions | 515 | 1,195 | 721 | 1,372 | 15% | 14% |
| Savings | 2,188 | 4,177 | 2,604 | 5,229 | 25% | 18% |
| Annuities | 63 | 109 | 119 | 233 | 115% | 101% |
| Protection | 302 | 674 | 395 | 778 | 15% | 9% |
| Poland⁴, Italy, Ireland⁵, Spain and Turkey | 3,068 | 6,155 | 3,839 | 7,612 | 24% | 17% |
| Europe | 5,966 | 11,678 | 6,244 | 12,065 | 3% | (3)% |
| Asia | 982 | 2,372 | 1,328 | 2,719 | 15% | 11% |
| Aviva Investors | 1,388 | 2,845 | 1,262 | 2,247 | (21)% | (21)% |
| Total | 16,568 | 35,037 | 20,025 | 40,795 | 16% | 14% |

Present value of new business premiums (PVNBP) is the present value of new regular premiums plus 100% of single premiums, calculated using assumptions consistent with those used to determine the value of new business. Includes £257 million relating to the internal transfer of annuities from a with-profits fund to a non-profit fund in 2H16. France includes Antarius up until 2H16. Poland includes Lithuania. 1

2

3 4

Following the launch of UK Insurance which brings together UK Life, UK General Insurance and UK Health into a combined business, the Ireland Life and General Insurance businesses have been aligned to the new management structure and reported with Europe. As a result, comparative balances have been restated. 5

E7 - Trend analysis of PVNBP by product - discrete

| | | Growth on 2H1 |
|---------------------------------------|----------------------|--|
| 1H17 Discrete 2H17 Discr £m | | Constar g currenc |
| 7,169 7,2 | 7,261 20% | 20 % |
| 1,075 2,4 | 2,435 62% | 62% |
| 70 2: | 214 1719 | b 171% |
| 1,006 9 | 958 8% | b 8% |
| 360 4 3 | 417 7% | b 7% |
| 1,511 1,2 | 1,288 27% | b 27% |
| 11,191 12,5 | 2,573 279 | b 27% |
| 2,151 1,89 | 1,892 (22)% | 6 (27)% |
| | 156 (27)% | |
| 2,405 2,0 4 | 2,048 (22)% | b (27)% |
| 721 6 | 651 (4)% | 6 (5)% |
| 2,604 2,6 2 | 2,625 32% | b 23% |
| 119 1: | 114 151% | 5 134 % |
| 395 3 8 | 383 3% | 5 (3) % |
| 3,839 3,7 | 3,773 229 | 16 % |
| 6,244 5,8 2 | 5,821 2% | 6 (4) % |
| 1,328 1,3 9 | 1,391 - | - (3)% |
| 1,262 9 | 985 (32)% | 6 (32)% |
| 20,025 20,7 | 0,770 12% | 6 10 % |
| | used to determine th | 20,025 20,770 12% used to determine the value of new business. |

. Sum includes Enrorman.
Following the launch of UK Insurance which brings together UK Life, UK General Insurance and UK Health into a combined business, the Ireland Life and General Insurance businesses have been aligned to the new management structure and reported with Europe. As a result, comparative balances have been restated 5

E8 - Geographical analysis of regular and single premiums

| | | | | | | Regula | ar premiums | | Sing | gle premiums |
|----------------------|------------|--------------------------------|------|------------------------|------------|--------|------------------------|------------|------------|--------------------------------|
| | 2017 £m | Constant currency growth | WACF | Present value £m | 2016 £m | WACF | Present value £m | 2017 £m | 2016 £m | Constant currency growth |
| United Kingdom | 1,807 | 8% | 5.3 | 9,605 | 1,679 | 5.3 | 8,881 | 14,159 | 9,261 | 53% |
| France | 94 | (14)% | 9.0 | 842 | 103 | 8.7 | 899 | 3,611 | 4,624 | (27)% |
| Poland ¹ | 51 | 10% | 7.3 | 371 | 42 | 7.7 | 324 | 97 | 97 | (8)% |
| Italy | 50 | (28)% | 7.5 | 375 | 65 | 3.0 | 194 | 4,242 | 3,440 | 15% |
| Ireland ² | 40 | 15% | 7.0 | 281 | 32 | 6.3 | 203 | 769 | 507 | 42% |
| Spain | 32 | (15)% | 6.3 | 202 | 34 | 6.9 | 236 | 802 | 699 | 7% |
| Turkey | 97 | 14% | 3.7 | 358 | 98 | 3.8 | 373 | 115 | 82 | 62% |
| Europe | 364 | (5)% | 6.7 | 2,429 | 374 | 5.9 | 2,229 | 9,636 | 9,449 | (5)% |
| Asia | 301 | 28% | 7.0 | 2,092 | 227 | 7.6 | 1,733 | 627 | 639 | (3)% |
| Aviva Investors | _ | — | — | - | — | — | - | 2,247 | 2,845 | (21)% |
| Total | 2,472 | 8% | 5.7 | 14,126 | 2,280 | 5.6 | 12,843 | 26,669 | 22,194 | 17% |

1 2

Poland includes Lithuania. Following the launch of UK Insurance which brings together UK Life, UK General Insurance and UK Health into a combined business, the Ireland Life and General Insurance businesses have been aligned to the new management structure and reported with Europe. As a result, comparative balances have been restated.

E9 - Trend analysis of investment sales - cumulative

| | | | | | Gro | wth on 2H16 |
|-------------------------------|----------------|----------------|----------------|----------------|---------------|---------------------------|
| Investment sales ¹ | 1H16 YTD £m | 2H16 YTD £m | 1H17 YTD £m | 2H17 YTD £m | Sterling % | Constant currency % |
| United Kingdom ² | 575 | 1,390 | 1,143 | 2,137 | 54% | 54% |
| Aviva Investors ³ | 3,587 | 5,765 | 2,949 | 5,510 | (4)% | (8)% |
| Asia ⁴ | 58 | 137 | 116 | 241 | 76% | 67% |
| Total investment sales⁵ | 4,220 | 7,292 | 4,208 | 7,888 | 8% | 5% |

Investment sales are calculated as new single premiums plus the annualised value of new regular premiums. UK investment sales are also reported in UK Life PVNBP, YTD investment sales of £575 million for 1H16, £1,390 million for 2H16, £1,143 million for 1H17 and £2,137 million for 2H17 are equivalent to £636 million, £1,484 million, £1,202 million and £2,258 million respectively on a PVNBP basis. YTD investment sales of £1,381 million for 1H16, £2,834 million for 2H16, £1,259 million for 1H17 and £2,243 million 2H17 are also included in Aviva Investors' PVNBP. 2

3

Asia investment sales are also reported in Asia PVNBP.

5 This is an Alternative Performance. See the glossary for further details.

E10 - Trend analysis of investment sales - discrete

| | | | | | Gro | wth on 2H16 |
|-------------------------------|------------------------|------------------------|------------------------|------------------------|---------------|---------------------------|
| Investment sales ¹ | 1H16 Discrete £m | 2H16 Discrete £m | 1H17 Discrete £m | 2H17 Discrete £m | Sterling % | Constant currency % |
| United Kingdom ² | 575 | 815 | 1,143 | 994 | 22% | 22% |
| Aviva Investors ³ | 3,587 | 2,178 | 2,949 | 2,561 | 18% | 21% |
| Asia ⁴ | 58 | 79 | 116 | 125 | 60% | 58% |
| Total investment sales | 4,220 | 3,072 | 4,208 | 3,680 | 20% | 22% |

 Investment sales are calculated as new single premiums plus the annualised value of new regular premiums.
 UK investment sales are also reported in UK Life PVNBP, YTD investment sales of £575 million for 2H16, £1, £43 million for 2H17 and £994 million for 2H17 are equivalent to £636 million, £847 million, £1,202 million and £1,056 million respectively on a PVNBP basis. Discrete investment sales of £1,381 million for 1H16, £1,453 million for 2H16, £1,259 million for 1H17 and £984 million for 2H17 are also included in Aviva Investors' PVNBP.

3 4 Asia investment sales are also reported in Asia PVNBP

| Overview I | ncome & expenses | IFRS | Capital & liquidity | Analysis of assets | VNB & Sales analysis | Other information |
|------------|------------------|------|---------------------|--------------------|----------------------|-------------------|
|------------|------------------|------|---------------------|--------------------|----------------------|-------------------|

E11 - Trend analysis of general insurance and health net written premiums - cumulative

| | | | | | Gro | owth on 2H16 |
|-----------------------------|----------------|----------------|----------------|----------------|---------------|---------------------------|
| | 1H16 YTD £m | 2H16 YTD £m | 1H17 YTD £m | 2H17 YTD £m | Sterling % | Constant currency % |
| General insurance | | | | | | |
| United Kingdom ⁴ | 2,001 | 3,930 | 2,105 | 4,078 | 4% | 4% |
| Canada | 1,049 | 2,453 | 1,477 | 3,028 | 23% | 15% |
| Europe ⁴ | 936 | 1,816 | 1,100 | 2,018 | 11% | 4% |
| Asia and Other | 5 | 12 | 6 | 17 | 47% | 40% |
| | 3,991 | 8,211 | 4,688 | 9,141 | 11% | 7% |
| Health insurance | | | | | | |
| United Kingdom ¹ | 292 | 514 | 293 | 509 | (1)% | (1)% |
| Europe ² | 198 | 284 | 165 | 240 | (15)% | (22)% |
| Asia ³ | 64 | 125 | 78 | 145 | 16% | 10% |
| | 554 | 923 | 536 | 894 | (3)% | (6)% |
| Total | 4,545 | 9,134 | 5,224 | 10,035 | 10% | 6% |

These premiums are also reported in UK Life PVNBP, 1H16 YTD NWP of £292 million, 2H16 YTD NWP of £514 million, 1H17 YTD NWP of £293 million, 2H17 YTD NWP of £509 million are equivalent to £255 million, £424 million, 2808 million and £540 1

million on a PVNBP basis respectively. 2

The sale of Ireland Health business was completed in 2016. Ireland Health businesses have been aligned to the new management structure and reported within Europe. Singapore long-term health business is also reported in Asia PVNBP. For Singapore long-term health business, 1H16 YTD NWP of £30 million, 2H16 YTD NWP of £67 million, 1H17 YTD NWP of £38 million and 2H17 YTD NWP £82 million are equivalent to £97 million, £209 million, £209 million, and £147million on a PVNBP basis respectively.

4 Following the launch of UK Insurance which brings together UK Life, UK General Insurance and UK Health into a combined business, the Ireland Life and General Insurance businesses have been aligned to the new management structure and reported within Europe. As a result, comparative balances have been restated.

E12 - Trend analysis of general insurance and health net written premiums - discrete

| | | | | | Gro | wthon 2H16 |
|-----------------------------|------------------------|------------------------|------------------------|------------------------|---------------|---------------------------|
| | 1H16 Discrete £m | 2H16 Discrete £m | 1H17 Discrete £m | 2H17 Discrete £m | Sterling % | Constant currency % |
| General insurance | | | | | | |
| United Kingdom ⁴ | 2,001 | 1,929 | 2,105 | 1,973 | 2% | 2% |
| Canada | 1,049 | 1,404 | 1,477 | 1,551 | 10% | 8% |
| Europe ⁴ | 936 | 880 | 1,100 | 918 | 4% | 3% |
| Asia and Other | 5 | 7 | 6 | 11 | 82% | 82% |
| | 3,991 | 4,220 | 4,688 | 4,453 | 6% | 4% |
| Health insurance | | | | | | |
| United Kingdom ¹ | 292 | 222 | 293 | 216 | (2)% | (2)% |
| Europe ² | 198 | 86 | 165 | 75 | (13)% | (10)% |
| Asia ³ | 64 | 61 | 78 | 67 | 9% | 10% |
| | 554 | 369 | 536 | 358 | (3)% | (2)% |
| Total | 4,545 | 4,589 | 5,224 | 4,811 | 5% | 4% |

These premiums are also reported in UK Life PVNBP. 1H16 NWP of £292 million, 2H16 NWP of £222 million, 1H17 NWP of £293 million and 2H17 NWP of £216 million , are equivalent to £255 million, £308 million and £232 million and £241 NWP of £293 million and £241 NWP of £293 million and £241 NWP of £294 million and £242 million and £241 NWP of £294 million and £241 million and £242 1

The sale of the reland Health Dusiness was completed in 2016. Ireland Health businesses have been aligned to the new management structure and reported within Europe. Singapore long-term health business is also reported in Asia PVNBP. For Singapore long-term health business, 1H16 NWP of £30 million, 2H16 NWP of £37 million, 1H17 NWP of £38 million and 2H17 NWP of £44 million are equivalent to £97 million, £112 million, £69 million and £78 million on a PVNBP basis respectively. 2

Following the launch of UK Insurance which brings together UK Life, UK General Insurance and UK Health into a combined business, the Ireland Life and General Insurance businesses have been aligned to the new management structure and 4 reported within Europe. As a result, comparative balances have been restated.

| Overview | Income & expenses | IFRS | Capital & liquidity | Analysis of assets | VNB & Sales analysis | Other information |
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|
|----------|-------------------|------|---------------------|--------------------|----------------------|-------------------|

E13 - Reconciliation of sales to net written premiums in IFRS

The table below presents our consolidated sales for the year ended 31 December 2017 and the year ended 31 December 2016 as well as the reconciliation of sales to net written premiums in IFRS.

| | 2017 £m | 2016 £m |
|---|------------|------------|
| Present value of new business premiums | 40,795 | 35,037 |
| Investment sales | 7,888 | 7,292 |
| General insurance and health net written premiums | 10,035 | 9,134 |
| Less: long-term health and collectives business ¹ | (5,213) | (4,944) |
| Total sales | 53,505 | 46,519 |
| Less: Effect of capitalisation factor on regular premium long-term business | (11,412) | (10,563) |
| Share of long-term new business sales from JVs and associates | (618) | (552) |
| Annualisation impact of regular premium long-term business | (281) | (264) |
| Deposits taken on non-participating investment contracts and equity release contracts | (10,953) | (7,834) |
| Retail sales of mutual fund type products (investment sales) | (7,888) | (7,292) |
| Add: IFRS gross written premiums from existing long-term business | 4,765 | 4,867 |
| Less: long-term insurance and savings business premiums ceded to reinsurers | (1,741) | (1,696) |
| Less: Outward reinsurance premium relating to general insurance business | _ | (107) |
| Total IFRS net written premiums | 25,377 | 23,078 |
| Analysed as: | | |
| Long-term insurance and savings net written premiums | 15,342 | 14,051 |
| General insurance and health net written premiums | 10,035 | 9,027 |
| | 25,377 | 23,078 |

1 Long-term health and collectives business are included as part of PVNBP.

Effect of capitalisation factor on regular premium long-term business

PVNBP is derived from the single and regular premiums of the products sold during the financial period and is expressed at the point of sale. The PVNBP calculation is equal to total single premium sales received in the year plus the discounted value of regular premiums expected to be received over the term of the new contracts. The discounted value of regular premiums is calculated using the same methodology as for VNB (on an adjusted Solvency II basis).

The discounted value reflects the expected income streams over the life of the contract, adjusted for expected levels of persistency, discounted back to present value. The discounted value can also be expressed as annualised regular premiums multiplied by a weighted average capitalisation factor (WACF). The WACF varies over time depending on the mix of new products sold, the average outstanding term of the new contracts and the projection assumptions.

Share of long-term new business sales from joint ventures and associates

Total long-term new business sales include our share of sales from joint ventures and associates. Under IFRS reporting, premiums from these sales are excluded from our consolidated accounts, with only our share of profits or losses from such businesses being brought into the income statement separately.

Annualisation impact of regular premium long-term business

As noted above, the calculation of PVNBP includes annualised regular premiums. The impact of this annualisation is removed in order to reconcile the non-GAAP new business sales to IFRS premiums and will vary depending on the volume of regular premium sales during the year.

Deposits taken on non-participating investment contracts and equity release contracts

Under IFRS, non-participating investment contracts are recognised in the Statement of Financial Position by recording the cash received as a deposit and an associated liability and are not recorded as premiums received in the IFRS income statement. Only the margin earned is recognised in the IFRS income statement.

Retail sales of mutual fund type products (investment sales)

Investment sales included in the total sales number represent the cash inflows received from customers to invest in mutual fund type products such as unit trusts and OEICs. We earn fees on the investment and management of these funds which are recorded separately in the IFRS income statement as 'fees and commissions received' and are not included in statutory premiums.

IFRS gross written premiums from existing long-term business

The non-GAAP measure of long-term and savings sales focuses on new business written in the year under review while the IFRS income statement includes premiums received from all business, both new and existing.

| Overview | Income & expenses | IFRS |
|----------|-------------------|------|
|----------|-------------------|------|

E14 – Principal assumptions underlying the calculation of VNB (on an adjusted SII basis)

Economic assumptions are derived actively, based on market yields on risk-free fixed interest assets at the end of each reporting period. The risk-free interest rate curves used to calculate VNB reflect the basic risk-free interest rate curves (including the credit risk adjustment), volatility adjustment and fundamental spread for the matching adjustment published by EIOPA on their website. The details on methodology are unchanged from those set out in D.2.2.3 of the Aviva 2016 Solvency and Financial Condition Report (SFCR).

(a) Basic risk-free interest rates

The basic risk-free rate curves are stated in the table below, including a credit risk adjustment.

| United Kingdom | 4Q 2017 | 3Q 2017 | 2Q 2017 | 1Q 2017 | 4Q 2016 | 3Q 2017 | 2Q 2016 | 1Q 2016 |
|----------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Reference rate | | | | | | | | |
| 1 year | 0.6% | 0.5% | 0.4% | 0.4% | 0.4% | 0.3% | 0.4% | 0.6% |
| 5 years | 0.9% | 1.0% | 0.8% | 0.7% | 0.7% | 0.4% | 0.5% | 0.9% |
| 10 years | 1.2% | 1.3% | 1.2% | 1.0% | 1.1% | 0.6% | 0.9% | 1.3% |
| 15 years | 1.3% | 1.5% | 1.4% | 1.2% | 1.3% | 0.8% | 1.1% | 1.5% |
| 20 years | 1.4% | 1.6% | 1.5% | 1.3% | 1.3% | 0.9% | 1.1% | 1.6% |
| | 4Q | 3Q | 2Q | 1Q | 4Q | 3Q | 2Q | 1Q |
| Eurozone | 2017 | 2017 | 2017 | 2017 | 2016 | 2017 | 2016 | 2016 |
| Reference rate | | | | | | | | |
| 1 year | (0.4)% | (0.4)% | (0.3)% | (0.3)% | (0.3)% | (0.3)% | (0.3)% | (0.2)% |
| 5 years | 0.2% | 0.2% | 0.2% | 0.1% | _ | (0.2)% | (0.2)% | (0.1)% |
| 10 years | 0.8% | 0.8% | 0.8% | 0.7% | 0.6% | 0.2% | 0.3% | 0.5% |
| 15 years | 1.2% | 1.3% | 1.2% | 1.1% | 1.0% | 0.5% | 0.7% | 0.8% |
| 20 years | 1.4% | 1.5% | 1.4% | 1.3% | 1.1% | 0.7% | 0.8% | 0.9% |

(b) Matching adjustment

The matching adjustment (MA) is an increase applied to the risk-free rate used to value insurance liabilities where the cash flows are relatively fixed (e.g. no future premiums or surrender risk) and are well matched by assets that are intended to be held to maturity and have cash flows that are also relatively fixed. The intention is that, if held to maturity, the business can earn the additional yield on these assets that relate to illiquidity risk.

Aviva applies a matching adjustment to certain obligations in UK Life and Spain Life, using methodology which is set out in the SFCR Report. The matching adjustments used to value new business will reflect the characteristics of the assets allocated to back the new business. The allocation of assets to new business anticipates the expected assets chosen to back new business at the end of year closing balance sheet. These may be different to the matching adjustments applied at the portfolio level.

The matching adjustments used for new business are shown in the table below:

| Matching adjustment portfolio | 2H 2017 | 1H 2017 | 2H 2016 | 1H 2016 |
|-------------------------------|------------|------------|------------|------------|
| UK Life | 116 | 123 | 171 | 152 |
| Spain Life | _ | 19 | 24 | 30 |

A combined MA of 116 bps and 123 bps was calculated for new business at FY17 and HY17 respectively within the Friends Life UK and the Aviva UK annuity portfolios. Prior to HY17 separate MAs were calculated for these portfolios and the assumptions shown in the table above for the comparative periods relate to the Aviva UK annuity portfolio. For Friends Life UK, the MAs were 106 bps and 123 bps at 2H2016 and 1H2016 respectively. In the comparative periods, the higher MA for Aviva UK new business partly reflects the allocation to Aviva UK of a higher proportion of illiquid assets. Following the sale of the majority of the Spanish business in the second half of 2017, none of the retained entities apply a MA.

(c) Volatility adjustment

The volatility adjustment (VA) is intended to reflect temporary distortions in spreads caused by illiquidity in the market or extreme widening of credit spreads, in particular in relation to government bonds. VAs are prescribed by EIOPA and published along with the basic risk-free interest rate curves on their website. Where applicable the VA is applied to all those liabilities where a MA is not applied, with the exception of unit-linked business in UK Life where, in line with the approved applications, no allowance for the VA is made.

The volatility adjustments used are shown in the table below:

| Volatility Adjustment (bps) | 2H 2017 | 1H 2017 | 2H 2016 | 1H 2016 |
|-----------------------------|------------|------------|------------|------------|
| United Kingdom | 18 | 21 | 30 | 38 |
| Eurozone | 4 | 9 | 13 | 16 |

IFRS

Glossary

This glossary to the Analyst Pack contains the definitions of non-GAAP financial Alternative Performance Measures (APMs) which are not bound by the requirements of IFRS.

Annual Premium Equivalent (APE)

Annual Premium Equivalent is a measure of sales in our life insurance businesses. APE is calculated as the sum of new regular premiums plus 10% of new single premiums written in the period. Whilst not a key performance metric of the Group, the APE measure provides useful information on sales and new business when considered alongside other measures such as the present value of new business premiums (PVNBP) or Solvency II value of new business (VNB).

Assets under management (AUM)

Assets under management represent all assets managed or administered by or on behalf of the Group, including those assets managed by third parties. AUM include managed assets that are included within the Group's statement of financial position and those assets belonging to external clients outside the Aviva Group which are therefore not included in the Group's statement of financial position. AUM is monitored as this reflects the potential earnings arising from investment interest and commission and measures the size and scale of the AUM business.

Cash remittances

Cash remittances represent amounts paid by our operating businesses to the Group, comprise dividends and interest on internal loans. Dividend payments by operating businesses may be subject to insurance regulations that restrict the amount that can be paid. The business monitors total cash remittances at a group level and in each of its markets.

These amounts eliminate on consolidation and hence are not directly reconcilable to the Group's IFRS consolidated statement of cash flows.

Claims ratio

A financial measure of the performance of our general insurance business which is derived from incurred claims as a percentage of net earned premiums.

Combined Operating Ratio (COR)

A financial measure of the Group's general insurance underwriting profitability which is derived from total underwriting costs – comprising of incurred claims, written commissions and expenses – expressed as a percentage of net earned premiums. A combined operating ratio below 100% indicates profitable underwriting.

Commission and expense ratio

A financial measure of the performance of our general insurance business which is derived from the sum of written commissions and expenses expressed as a percentage of net earned premiums.

Estimated Solvency II cover ratio

The Solvency II cover ratio is an indicator of the Group's balance sheet strength which is derived from 'Own funds' divided by the Solvency Capital Requirement (SCR), as calculated on a shareholder view. The shareholder view excludes the contribution to Group SCR and Group 'Own funds' of fully ring fenced with-profits funds and staff pension schemes in surplus. These exclusions have no impact on Solvency II surplus.

The most material fully ring fenced with-profits funds and staff pension schemes are self-supporting on a Solvency II capital basis with any surplus capital above SCR not recognised in the Group position. The shareholder view is therefore considered by management to be more representative of the shareholders' risk-exposure and the Group's ability to cover the SCR with eligible own funds.

The Solvency II cover ratio is shown inclusive of pro forma adjustments to align it with the capital information presented to management internally. Pro forma adjustments are made when, in the opinion of the Directors, the cover ratio does not fully reflect the effect of transactions or capital actions that are known as at each reporting date. Such adjustments may be required in respect of planned acquisitions and disposals, group reorganisations and adjustments to the Solvency II valuation basis arising from changes to the underlying Regulations or updated interpretations provided by EIOPA.

Estimated Solvency II own funds

Available capital resources determined under Solvency II are referred to as 'Own Funds'. This includes the excess of assets over liabilities in the Solvency II balance sheet (calculated on best estimate, market consistent assumptions and net of transitional measures on technical provisions), subordinated liabilities that qualify as capital under Solvency II, and offbalance sheet Own Funds.

Estimated Solvency II Surplus

The surplus represents 'Own funds' less the SCR. Holding capital in excess of the SCR demonstrates an insurer has adequate financial resources in place to meet all its liabilities as and when they fall due and that there is sufficient capital to absorb significant losses.

Excess centre cash flow

This represents the cash remitted by business units to the Group centre less central operating expenses and debt financing costs. Excess centre cash flow is a measure of the cash available to pay dividends, reduce debt or invest back into our business.

These amounts eliminate on consolidation and hence are not directly reconcilable to the Group's IFRS consolidated statement of cash flows.

Group adjusted operating profit (operating profit)

Operating profit is a non-GAAP APM which is reported to the Group chief operating decision maker for the purpose of decision making and internal performance management of the Group's operating segments that incorporates an expected return on investments supporting the life and non-life insurance businesses. Throughout the Preliminary Announcement, Group adjusted operating profit is referred to as operating profit.

The various items taken out of operating profit are:

Investment variances and economic assumptions changes Operating profit for the life insurance business is based on expected investment returns on financial investments backing shareholder and policyholder funds over the reporting period, with allowance for the corresponding expected movements in liabilities.

 The expected rate of return is determined using consistent assumptions between operations, having regard to local economic and market forecasts of investment return and asset classification. IFRS

Glossary continued

- For fixed interest securities classified as fair value through profit or loss, the expected investment returns are based on average prospective yields for the actual assets held less an adjustment for credit risks. Where such securities are classified as available for sale the expected return comprises interest or dividend payments and amortisation of the premium or discount at purchase.
- The expected return on equities and properties is calculated by reference to the opening 10-year swap rate in the relevant currency plus an appropriate risk margin.

Operating profit includes the effect of variances in experience for non-economic items, such as mortality, persistency and expenses, and the effect of changes in non-economic assumptions. This would include movements in liabilities due to changes in discount rate arising from management decisions that impact on product profitability over the lifetime of products. Changes due to economic items, such as market value movement and interest rate changes, which give rise to variances between actual and expected investment returns, and the impact of changes in economic assumptions on liabilities, are disclosed separately outside operating profit.

Operating profit for the non-life insurance business is based on expected investment returns on financial investments backing shareholder funds over the period.

- Expected investment returns are calculated for equities and properties by multiplying the opening market value of the investments, adjusted for sales and purchases during the year, by the longer-term rate of return. This rate of return is the same as that applied for the long-term business expected returns.
- The longer-term return for other investments is the actual income receivable for the period.

Changes due to market value movement and interest rate changes, which give rise to variances between actual and expected investment returns, are disclosed separately outside operating profit. The impact of changes in the discount rate applied to claims provisions is also disclosed outside operating profit.

The exclusion of short-term investment variances from this APM reflects the long-term nature of much of our business. The operating profit which is used in managing the performance of our operating segments excludes the impact economic factors, to provide a comparable measure year-on-year.

Impairment, amortisation and profit/loss on disposal

Operating profit also excludes impairment of goodwill, associates and joint ventures; amortisation and impairment of other intangibles; amortisation and impairment of acquired value of in-force business; and the profit or loss on disposal and re-measurement of subsidiaries, joint ventures and associates. These items principally relate to merger and acquisition activity which we view as strategic in nature, hence they are excluded from the operating profit APM as this is principally used to manage the performance of our operating segments, when reporting to the Group chief operating decision maker.

Other items

These items are, in the Directors' view, required to be separately disclosed by virtue of their nature or incidence to enable a full understanding of the Group's financial performance.

Operating profit is presented before and after integration and restructuring costs.

The Group adjusted operating profit APM should be viewed as complementary to IFRS GAAP measures. It is important to consider Group adjusted operating profit and profit before tax together to understand the performance of the business in the period.

Investment sales

This measure comprises of retail sales of mutual fund-type products such as unit trusts, individual savings accounts (ISAs) and open ended investment companies (OEICs).

Net Asset Value (NAV) per share

NAV per share is calculated as the equity attributable to shareholders of Aviva plc, less preference share capital (both within the consolidated statement of financial position), divided by the actual number of shares in issue as at the balance sheet date.

Net fund flows

Net fund flows is one of the measures of growth used by management and is a component of the movement in the Life and platform business managed assets (excluding UK withprofits) during the period. It is the difference between the inflows (being IFRS net written premiums plus deposits received under investment contracts) and outflows (being IFRS net paid claims plus redemptions and surrenders under investment contracts). It excludes market and other movements.

New business income

New business income represents the impact on group adjusted operating profit of new business written in the period. New business income comprises income arising from premiums written during the period less initial reserves, expenses and commission. Expense and commission are shown net of deferred acquisition costs. Whilst not a key performance metric of the Group, new business income provides useful information on sales and new business when considered alongside other measures such as the present value of new business premiums (PVNBP) or Solvency II value of new business (VNB).

New business margin

New business margins are calculated as the adjusted Solvency II value of new business divided by the adjusted Solvency II present value of new business premiums (PVNBP), and expressed as a percentage.

Normalised accident year claims ratio

The normalised accident year claims ratio is derived from the claims ratio (as defined above) with adjustments made to exclude the impact of exceptional and non-recurring items; prior year claims development and weather variations versus expectations. These adjustments are made so that the underlying performance of the Group can be assessed excluding factors that might distort the trend in the claims ratio on a yearon-year basis. The ratio is shown gross of the impact of profit sharing arrangements.

Normalised accident year Combined Operating Ratio

The normalised accident year combined operating ratio is derived from the COR (as defined above) with adjustments made to exclude the impact of exceptional and non-recurring items; prior year claims development and weather variations versus expectations, gross of the impact of profit sharing arrangements. These adjustments are made so that the underlying performance of the Group can be assessed excluding factors

Income & expenses

IFRS

Capital & liquidity

Glossary continued

that might distort the trend in the claims ratio on a year-on-year basis.

Operating Capital Generation (OCG)

Operating Capital Generation represents the movement in the Solvency II surplus in the period due to the impact of new business, expected returns on existing business, operating variances, non-economic assumption changes and nonrecurring capital actions.

OCG excludes economic variances, economic assumption changes and integration and restructuring costs. The exclusion of these items from OCG reflects the long-term nature of much of the Group's business and excludes the impact of economic factors which are typically outside the control of management. 'Underlying' OCG is the component of the OCG which excludes the effect of non-recurring capital actions and non-economic assumption changes and is therefore considered to be more representative of the long-term trend.

Operating Earnings per Share (EPS)

Operating EPS is calculated based on the adjusted operating profit attributable to ordinary shareholders net of tax, deducting non-controlling interests, preference dividends, the direct capital instrument (DCI) and tier one note coupons divided by the weighted average number of ordinary shares in issue, after deducting treasury shares.

Operating expense ratio

The operating expense ratio expresses operating expenses as a percentage of operating income.

Operating income is calculated as Group adjusted operating profit before Group debt costs and operating expenses.

Operating expenses

The day-to-day expenses involved in running the business are classified as operating expenses. These expenses include other acquisition costs and claims handling costs as these are considered to be controllable by the Group's operating segments and directly impact their performance.

Operating expenses exclude impairment of goodwill, associates and joint ventures; amortisation and impairment of other intangibles; amortisation and impairment of acquired value of in-force business; and the profit or loss on disposal and re-measurement of subsidiaries, joint ventures and associates. These items principally relate to merger and acquisition activity which we view as strategic in nature, hence they are excluded as this measure is principally used to manage segment performance. Operating expenses also exclude integration & restructuring costs and other similar expenses incurred which are considered to be non-recurring and strategic in nature.

Present value of new business premiums

The present value of new business premiums (PVNBP) is a financial measure which is used as a measure of sales in the Group's life insurance businesses. PVNBP is derived from the present value of new regular premiums plus 100% of single premiums from new business written at the point of sale. PVNBP also includes any changes to existing contracts which were not anticipated at the outset of the contract that generates additional shareholder risk and associated premium income of the nature of a new policy. An example of a change to existing contracts that is considered to generate additional PVNBP is an internal transfer of annuities from a with-profits fund to a nonprofit fund.

Return on equity

The return on equity calculation is based on operating return after tax attributable to ordinary shareholders expressed as a percentage of weighted average ordinary shareholders' equity (excluding non-controlling interests and direct capital instrument and tier 1 notes).

Return on capital employed (ROCE)

ROCE indicates the efficiency with which a company uses its assets to generate profits. Usually calculated as pre-tax profit divided by capital employed (total assets minus current liabilities) and expressed as a percentage.

Solvency Capital Requirement (SCR)

The Solvency II regime requires insurers to hold own funds in excess of the Solvency Capital Requirement. The SCR is calculated at Group level using a risk based capital model which is calibrated to reflect the cost of mitigating the risk of insolvency to a 99.5% confidence level over a one year time horizon - equivalent to a 1 in 200 year event - against financial and non-financial shocks. As a number of subsidiaries utilise the standard formula rather than a risk based capital model to assess economic capital requirements, the overall Aviva Group SCR is calculated using a partial internal model, and it is shown after the impact of diversification benefit.

Spread margin

The spread margin represents the return made on the Group's annuity and other non-linked business, based on the expected investment return, less amounts credited to policyholders. Whilst not a key performance metric of the Group, the spread margin is a useful indicator of the expected investment return arising on this business.

Underwriting margin

The underwriting margin represents the release of reserves held to cover claims, surrenders and administrative expenses less the cost of actual claims and surrenders in the period. Whilst not a key performance metric of the Group; the underwriting margin is a useful measure of the financial performance of our Life insurance business when considered alongside other financial metrics.

Unit linked margin

The unit linked margin represents the annual management charges on unit-linked business based on expected investment return. Whilst not a key performance metric of the Group, the unit linked margin is a useful indicator of the expected investment return arising on this business.

Value of New Business (VNB)

The Solvency II value of new business (VNB) represents the increase in own funds arising from business written in the period, with adjustments made to i) include VNB not included in Solvency II (e.g. UK and Asia Healthcare business, retail fund management business and UK Equity Release business) ii) remove the impact of contract boundaries and iii) include a 'look through' to the value of profits arising in service companies (which would otherwise be excluded from Solvency II). These adjustments are considered to reflect a more realistic basis than the prudential Solvency II rules. The VNB is derived from the present value of projected pre-tax distributable profits generated by new business plus a risk margin. Adjusted Solvency II VNB can be reconciled to the Solvency II Own Funds impact of new business; however there is no equivalent IFRS metric.