#### UNITED STATES SECURITIES AND EXCHANGE COMMISSION WASHINGTON, D.C. 20549

FORM 10-K

#### ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the fiscal year ended December 31, 2018

Commission File No. 1-5998



# Marsh & McLennan Companies, Inc.

(Exact name of registrant as specified in its charter)

#### Delaware

(State or other jurisdiction of incorporation or organization)

36-2668272

(I.R.S. Employer Identification No.)

#### 1166 Avenue of the Americas New York, New York 10036-2774

(Address of principal executive offices; Zip Code) (212) 345-5000

Registrant's telephone number, including area code Securities registered pursuant to Section 12(b) of the Act:

New York Stock Exchange
New York Stock Exchange
Chicago Stock Exchange
London Stock Exchange
of the Securities Act. Yes ☑ No □
ection 15(d) of the Act. Yes □ No 区
tion 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 has been subject to such filing requirements for the past 90
s not contained herein, and will not be contained, to the best of registrant's nis Form 10-K or any amendment to this Form 10-K. Yes   No □
porate Website, if any, every Interactive Data File required to be submitted and ter period that the registrant was required to submit and post such
non-accelerated filer or a smaller reporting Company. See the definitions of Exchange Act. (Check one):
Accelerated Filer □
Smaller Reporting Company □
Emerging Growth Company □
o use the extended transition period for complying with any new or revised
ne Exchange Act). Yes □ No 🗷
affiliates of the registrant was approximately \$40,260,247,498 computed by une 29, 2018.
ue \$1.00 per share, of the registrant.
BY REFERENCE
t for the 2019 Annual Meeting of Stockholders (the "2019 Proxy Statement") are
th single

#### INFORMATION CONCERNING FORWARD-LOOKING STATEMENTS

This Annual Report on Form 10-K contains "forward-looking statements," as defined in the Private Securities Litigation Reform Act of 1995. These statements, which express management's current views concerning future events or results, use words like "anticipate," "assume," "believe," "continue," "estimate," "expect," "intend," "plan," "project" and similar terms, and future or conditional tense verbs like "could," "may," "might," "should," "will" and "would."

Forward-looking statements are subject to inherent risks and uncertainties that could cause actual results to differ materially from those expressed or implied in our forward-looking statements. Factors that could materially affect our future results include, among other things:

- · our ability to successfully consummate, integrate or achieve the intended benefits of the acquisition of JLT;
- the impact of any investigations, reviews, market studies or other activity by regulatory or law enforcement authorities, including the ongoing investigations by the European and Brazilian competition authorities;
- the impact from lawsuits, other contingent liabilities and loss contingencies arising from errors and omissions, breach of fiduciary duty or other claims against us;
- our organization's ability to maintain adequate safeguards to protect the security of our information systems and confidential, personal or proprietary information, particularly given the large volume of our vendor network and the need to patch software vulnerabilities;
- our ability to compete effectively and adapt to changes in the competitive environment, including to respond to disintermediation, digital disruption and other types of innovation;
- the financial and operational impact of complying with laws and regulations where we operate, including cybersecurity and data privacy regulations such as the E.U.'s General Data Protection Regulation, anticorruption laws and trade sanctions regimes;
- the impact of macroeconomic, political, regulatory or market conditions on us, our clients and the industries in which we operate, including
  the impact and uncertainty around Brexit or the inability to collect on our receivables;
- the regulatory, contractual and reputational risks that arise based on insurance placement activities and various broker and consulting revenue streams;
- our ability to manage risks associated with our investment management and related services business, including potential conflicts of interest between investment consulting and fiduciary management services;
- · our ability to successfully recover if we experience a business continuity problem due to cyberattack,natural disaster or otherwise;
- the impact of changes in tax laws, guidance and interpretations, including related to certain provisions of the U.S. Tax Cuts and Jobs Act, or disagreements with tax authorities;
- · the impact of fluctuations in foreign exchange and interest rates on our results; and
- the impact of changes in accounting rules or in our accounting estimates or assumptions, including the impact of the adoption of the revenue recognition, pension and lease accounting standards.

The factors identified above are not exhaustive. Further information concerning Marsh & McLennan Companies and its businesses, including information about factors that could materially affect our results of operations and financial condition, is contained in the Company's filings with the Securities and Exchange Commission, including the "Risk Factors" section in Part I, Item 1A of this report and the "Management's Discussion and Analysis of Financial Condition and Results of Operations" section in Part II, Item 7 of this report. We caution readers not to place undue reliance on any forward-looking statements, which are based only on information currently available to us and speak only as of the dates on which they are made. We undertake no obligation to update or revise any forward-looking statement to reflect events or circumstances arising after the date on which it is made.

## TABLE OF CONTENTS

Information Concerning For	rward-Looking Statements	<u>i</u>
PART I		
Item 1 —	<u>Business</u>	1
Item 1A —	Risk Factors	<u>12</u>
Item 1B —	Unresolved Staff Comments	<u>29</u>
Item 2 —	<u>Properties</u>	<u>29</u>
Item 3 —	Legal Proceedings	<u>29</u>
Item 4 —	Mine Safety Disclosures	<u>30</u>
PART II		
Item 5 —	Market for the Company's Common Equity, Related Stockholder Matters and Issuer Purchases of Equity Securities	<u>31</u>
Item 6 —	Selected Financial Data	<u>32</u>
Item 7 —	Management's Discussion and Analysis of Financial Condition and Results of Operations	<u>33</u>
Item 7A —	Quantitative and Qualitative Disclosures About Market Risk	<u>54</u>
Item 8 —	Financial Statements and Supplementary Data	<u>56</u>
Item 9 —	Changes in and Disagreements with Accountants on Accounting and Financial Disclosure	<u>118</u>
Item 9A —	Controls and Procedures	<u>118</u>
Item 9B —	Other Information	<u>120</u>
PART III		
Item 10 —	Directors, Executive Officers and Corporate Governance	<u>121</u>
Item 11 —	Executive Compensation	<u>121</u>
Item 12 —	Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters	<u>121</u>
Item 13 —	Certain Relationships and Related Transactions, and Director Independence	<u>121</u>
Item 14 —	Principal Accountant Fees and Services	<u>121</u>
PART IV		
Item 15 —	Exhibits and Financial Statement Schedules	<u>122</u>
Item 16 —	Form 10-K Summary	<u>133</u>
Signatures		<u>134</u>

#### PART I

#### ITEM 1. BUSINESS.

References in this report to "we", "us" and "our" are to Marsh & McLennan Companies, Inc. and its consolidated subsidiaries (the "Company"), unless the context otherwise requires.

#### **GENERAL**

The Company is a global professional services firm offering clients advice and solutions in risk, strategy and people. Its businesses include: Marsh, the insurance broker, intermediary and risk advisor; Guy Carpenter, the risk and reinsurance specialist; Mercer, the provider of HR and investment related advice and services; and Oliver Wyman Group, the management, economic and brand consultancy. With over 65,000 colleagues worldwide and annual revenue of \$15 billion, the Company provides analysis, advice and transactional capabilities to clients in more than 130 countries.

The Company conducts business through two segments:

- Risk and Insurance Services includes risk management activities (risk advice, risk transfer and risk control and mitigation solutions) as well as insurance and reinsurance broking and services. The Company conducts business in this segment through Marsh and Guy Carpenter.
- Consulting includes health, wealth and career services and products, and specialized management, economic and brand consulting services. The Company conducts business in this segment through Mercer and Oliver Wyman Group.

We describe our current segments in further detail below. We provide financial information about our segments in our consolidated financial statements included under Part II, Item 8 of this report.

#### **OUR BUSINESSES**

#### **RISK AND INSURANCE SERVICES**

The Risk and Insurance Services segment generated approximately 55% of the Company's total revenue in 2018 and employs approximately 36,000 colleagues worldwide. The Company conducts business in this segment through Marsh and Guy Carpenter.

#### MARSH

Marsh is a global leader in delivering risk advisory and insurance solutions to companies, institutions and individuals around the world. From its founding in 1871 to the present day, Marsh has demonstrated a commitment to thought leadership, innovation and insurance expertise to meet its clients' needs. Marsh's pioneering contributions include introducing the practice of client representation through brokerage, the discipline of risk management, the globalization of risk management services and the development of service platforms that identify, quantify, mitigate and transfer risk.

Currently, approximately 34,000 Marsh colleagues provide risk management, insurance broking, insurance program management services, risk consulting, analytical modeling and alternative risk financing services to a wide range of businesses, government entities, professional service organizations and individuals in more than 130 countries. Marsh generated approximately 46% of the Company's total revenue in 2018.

## Insurance Broking and Risk Consulting

In its core insurance broking and risk advisory business, Marsh employs a team approach to identify, quantify and address clients' risk management and insurance needs. Marsh's product and service offerings include risk analysis, insurance program design and placement, insurance program support and administration, claims support and advocacy, alternative risk strategies and a wide array of risk analysis and risk management consulting services. Clients benefit from Marsh's advanced analytics, deep technical expertise, collaborative global culture and the ability to develop innovative solutions and products. The firm's resources also include more than thirty five risk, specialty and industry practices, including cyber, financial and professional service practices, along with a growing employee health & benefits business.

Marsh provides services to clients of all sizes, including large multinational companies, high growth middle-market businesses, small commercial enterprises and high net-worth private clients. Marsh segments clients to ensure that their needs are effectively addressed through tailored value propositions, which aim to provide solutions that best mitigate and manage their risk exposures.

**Risk Management.** Marsh has an extensive global footprint and market-leading advisory and placement services that benefit large domestic and international companies and institutions facing complex risk exposures. These clients are also supported by Marsh's robust analytics and a growing digital experience.

In addition, Marsh's largest multinational clients are serviced by a dedicated team of colleagues from around the world focused on delivering service excellence and insurance solutions to clients wherever they are located. Marsh provides global expertise and an intimate knowledge of local markets, helping clients navigate local regulatory environments to address the worldwide risk issues that confront them.

Corporate. A fast-growing segment, middle market and corporate clients are served by Marsh's brokerage operations globally and constitute a substantial majority of clients served by Marsh & McLennan Agency (MMA) in the United States, Jelf in the United Kingdom and large portions of Marsh's international business.

- MMA offers a broad range of commercial property and casualty products and services, as well as solutions for employee health and benefits, retirement and administration needs and a growing personal lines business in the United States and Canada. Since its first acquisition in 2009, MMA has acquired 70 agencies. MMA provides advice on insurance program structure and market dynamics, along with industry expertise and transactional capability.
- **Jelf** (acquired in December 2015) and **Bluefin** (acquired in December 2016 and largely integrated into Jelf) service more than 250,000 clients, primarily in the small to mid-market segment across the United Kingdom, and offer high quality technical advice, bespoke products and distinctive services including claims consultancy, employee health and benefit, personal lines solutions and risk management. As a result of these acquisitions, Marsh is now a leading SME (small and medium enterprise) broker in the United Kingdom.

Commercial & Consumer. Clients in this market segment typically face less complex risks and are served by Marsh's innovative product and placement offerings and growing capabilities in digitally enabled distribution.

- Victor Insurance Holdings is one of the largest underwriting managers of professional liability and specialty insurance programs worldwide. In the United States, Victor O. Schinnerer & Co. and ICAT Managers offer risk management and insurance solutions to over 125,000 insureds through a national third-party distribution network of licensed brokers. ENCON Group Inc., a leading managing general agent in Canada with over 43,000 insureds, offers professional liability and construction insurance, as well as group and retiree benefits programs and claims handling for individuals, professionals, organizations and businesses. Victor has a growing business in the UK (where it was formerly known as Bluefin Underwriting) and Europe, where new businesses have been launched in the Netherlands, Italy and Germany.
- **Dovetail Insurance** is a leading provider of cloud-based insurance services and transaction processing tailored to the U.S. small commercial market. Dovetail deploys an advanced cloud-based technology platform that enables independent insurance agents, on behalf of their small business clients, to obtain online quotes from multiple insurance providers and bind property and casualty and workers compensation insurance policies in real time.

High Net Worth (HNW). Individual high net worth clients are serviced by Marsh USA's Private Client Services (PCS), MMA and other personal lines businesses globally. These businesses provide a single-source solution for high net worth clients and are dedicated to sourcing protections across a broad spectrum of risk. Using a consultative approach, PCS analyzes exposures and customizes programs to cover clients with complex asset portfolios.

#### Additional Services and Adjacent Businesses

In addition to insurance broking, Marsh provides certain other specialist advisory or placement services:

Marsh Risk Consulting (MRC) is a global practice comprising specialists that advise clients on identifying exposures, use data and analytics to assess critical business activities and evaluate existing risk practices and strategies. MRC provides client services in four main areas: Property Consulting; Casualty Consulting; Strategic Risk and Cybersecurity Consulting; and Financial Advisory Services.

Marsh Data, Digital and Analytics provides technology solutions to enhance the insurance process and data and analytical tools to better understand risks, make more informed decisions and support the implementation of innovative solutions and strategies. Among the suite of solutions deployed by this team are: Bluestream, a digital broker that enables clients to provide insurance to their customers or suppliers in a B2B2C affinity model; Blockchain solutions, where Marsh is working in conjunction with industry consortia and IBM to digitally verify insurance; and the Marsh Analytical Platform - Marsh's proprietary suite of analytics applications that delivers risk insights to clients for better decision making concerning retaining, mitigating, transferring risk and financing risk.

Marsh Captive Solutions serves more than 1,200 captive facilities, including single-parent captives, reinsurance pools and risk retention groups. The Captive Solutions practice operates in 51 captive domiciles and leverages the consulting expertise within Marsh's brokerage offices worldwide. The practice includes the Captive Advisory Group, a consulting arm that performs captive feasibility studies and helps to structure and implement captive solutions; the Captive Management Group, an industry leader in managing captive facilities and in providing administrative, consultative and insurance-related services; and the Actuarial Services Group, which is comprised of credentialed actuaries and supporting actuarial analysts.

**Torrent Technologies** is a service provider to Write Your Own (WYO) insurers participating in the National Flood Insurance Program (NFIP) in the United States. It offers a comprehensive suite of flood insurance products and services to WYO carriers and agents. In addition, Torrent serves as the Direct Servicing Agent of the NFIP.

**Bowring Marsh** is an international placement broker primarily for property and casualty risks. Bowring Marsh uses placement expertise in major international insurance market hubs, including Bermuda, Brazil, China, United Arab Emirates, Ireland, Spain, United Kingdom, the United States, Singapore, Japan and Switzerland, and an integrated global network to secure advantageous terms and conditions for its clients throughout the world.

#### Services for Insurers

Insurer Consulting Group provides services to insurance carriers. Through Marsh's patented electronic platform, MarketConnect, and sophisticated data analysis, Marsh provides insurers with individualized preference setting and risk identification capabilities, as well as detailed performance data and metrics. Insurer consulting teams review performance metrics and preferences with insurers and provide customized consulting services to insurers designed to improve business planning and strategy implementation. Marsh's Insurer Consulting services are designed to improve the product offerings available to clients, assist insurers in identifying new opportunities and enhance insurers' operational efficiency. The scope and nature of the services vary by insurer and by geography.

## **GUY CARPENTER**

Guy Carpenter, the Company's reinsurance intermediary and advisor, generated approximately 9% of the Company's total revenue in 2018. The workforce consists of approximately 2,400 colleagues who provide clients with a combination of specialized reinsurance broking expertise, strategic advisory services and analytics solutions. Guy Carpenter creates and executes reinsurance and risk management solutions for clients worldwide through risk assessment analytics, actuarial services, highly-specialized product knowledge and trading relationships with reinsurance markets. Client services also include contract and claims management and fiduciary accounting.

Acting as a broker or intermediary on all classes of reinsurance, Guy Carpenter places two main types of property casualty and life / health reinsurance: treaty reinsurance, which involves the transfer of a portfolio of risks; and facultative reinsurance, which involves the transfer of part or all of the coverage provided by a single insurance policy.

Guy Carpenter provides reinsurance services in a broad range of centers of excellence and segments, including: Automobile / Motor, Aviation, Crop/Agriculture, Cyber, D&O/Non-Medical Professional, Engineering / Construction, Environmental, GL & Umbrella, Health, Life, Marine and Energy, Medical Professional, Mortgage, Political Risk & Trade Credit, Program Manager Solutions, Property, Public Sector, Retrocessional Reinsurance, Surety, Terror, and Workers Compensation / Employer Liability.

Guy Carpenter also offers clients alternatives to traditional reinsurance, including industry loss warranties and, through its licensed affiliates, capital markets alternatives such as transferring catastrophe risk through the issuance of risk-linked securities. GC Securities, the Guy Carpenter division of MMC Securities LLC and MMC Securities (Europe) Limited, offers corporate finance solutions, including mergers & acquisitions and private debt and equity capital raising, and capital markets-based risk transfer solutions that complement Guy Carpenter's strong industry relationships, analytical capabilities and reinsurance expertise.

Guy Carpenter also provides its clients with reinsurance-related services, including actuarial, enterprise risk management, financial and regulatory consulting, portfolio analysis and advice on the efficient use of capital. Guy Carpenter's Global Strategic Advisory ("GSA") unit helps clients better understand and quantify the uncertainties inherent in their businesses. Working in close partnership with Guy Carpenter account executives, GSA specialists help support clients' critical decisions in numerous areas, including reinsurance utilization, catastrophe exposure portfolio management, new product and market development, rating agency, regulatory and account impacts, loss reserve risk, capital adequacy and return on capital.

#### Compensation for Services in Risk and Insurance Services

Marsh and Guy Carpenter are compensated for brokerage and consulting services through commissions and fees. Commission rates and fees vary in amount and can depend on a number of factors, including the type of insurance or reinsurance coverage provided, the particular insurer or reinsurer selected, and the capacity in which the broker acts and negotiates with clients. In addition to compensation from its clients, Marsh also receives other compensation, separate from retail fees and commissions, from insurance companies. This other compensation includes, among other things, payments for consulting and analytics services provided to insurers; compensation for administrative and other services (including fees for services provided to or on behalf of insurers relating to the administration and management of quota shares, panels and other facilities in which insurers participate); and contingent commissions, which are paid by insurers based on factors such as volume or profitability of Marsh's placements, primarily driven by MMA and parts of Marsh's international operations.

Marsh and Guy Carpenter receive interest income on certain funds (such as premiums and claims proceeds) held in a fiduciary capacity for others. For a more detailed discussion of revenue sources and factors affecting revenue in our Risk and Insurance Services segment, see Part II, Item 7 ("Management's Discussion and Analysis of Financial Condition and Results of Operations") of this report.

#### **CONSULTING**

The Company's Consulting segment generated approximately 45% of the Company's total revenue in 2018 and employs approximately 28,000 colleagues worldwide. The Company conducts business in this segment through Mercer and Oliver Wyman Group.

#### MERCER

Mercer delivers advice and digital solutions that help organizations meet the health, wealth and career needs of a changing workforce. Mercer has more than 23,000 colleagues based in 43 countries. Clients include a majority of the companies in the Fortune 1000 and FTSE 100, as well as medium- and small-market organizations. Mercer generated approximately 32% of the Company's total revenue in 2018.

Mercer operates in the following areas:

Health. Mercer assists public and private sector employers in the design and management of employee health care programs; administration of health benefits and flexible benefits programs, including benefits outsourcing; employee engagement with their health benefits through a digital experience; compliance with local benefits-related regulations; and the establishment of health and welfare benefits coverage for employees. Mercer provides a range of advice and solutions to clients, which, depending on the engagement, may include: total health and wellness management strategies; global health brokerage solutions; vendor performance and audit; life and disability management; and measurement of healthcare provider performance. These services are provided through traditional fee-based consulting as well as commission-based brokerage services in connection with the selection of insurance companies and healthcare providers. Mercer also provides solutions for private active and retiree exchanges in the United States, including its Mercer Marketplace 365<sup>SM</sup> and Mercer 365+<sup>SM</sup> offerings, as well as tools to enhance employee engagement with their health benefits through its Darwin<sup>SM</sup> platform across the world.

**Wealth.** Mercer assists clients worldwide in the design, governance and risk management of defined benefit, defined contribution and hybrid retirement plans. Mercer provides retirement plan outsourcing, including administration and delivery of defined benefit and defined contribution retirement benefits. Mercer also provides investment advice and related services to the sponsors and trustees of pension plans, master trusts, foundations, endowments, and insurance companies as well as wealth management and other financial intermediary firms.

The Wealth business is comprised of two practices: Defined Benefit Consulting & Administration (DBA) and Investment Management & Related Services (IMS).

DBA includes mature businesses primarily in defined benefit and actuarial consulting, defined benefit investment consulting and defined benefit plan administration. Through DBA, Mercer provides a range of retirement-related services and solutions to corporate, trustees, governmental and institutional clients. Through IMS, Mercer provides primarily investment consulting and investment management (also referred to as "delegated solutions" or "fiduciary management") services defined contribution-related consulting and investment and administration services, and financial wellness. Mercer's services cover all stages of the investment process, from strategy, asset allocation and implementation to ongoing portfolio management services. Mercer provides these services primarily to institutional and other sophisticated investors including retirement plans (defined benefit and defined contribution), master trusts, endowments and foundations and wealth managers and other financial intermediary firms, primarily through manager of manager funds sponsored and managed by Mercer. Mercer also provides services to individual investors, including financial planning and other discretionary investment services. As of December 31, 2018, Mercer and its global affiliates had assets under delegated management of approximately \$241 billion worldwide. Mercer's financial wellness advice and services are designed to promote the financial wellbeing of employees.

Career. Mercer's Career businesses advise organizations on the engagement, management and reward of employees; the design of executive remuneration programs; people strategies during business transformation, improvement of human resource (HR) effectiveness; and the implementation of digital and cloud-based Human Resource Information Systems through Mercer Career Digital. In addition, through proprietary survey data and decision support tools, Mercer's Career Products business provides clients with human capital information and analytical capabilities to improve strategic human capital decision making. Mercer's Communications business helps clients plan and implement HR programs and other

organizational changes designed to maximize employee engagement, drive desired employee behaviors and achieve improvements in business performance.

#### **OLIVER WYMAN GROUP**

With more than 5,000 professionals and offices in 30 countries, Oliver Wyman Group delivers advisory services to clients through three operating units, each of which is a leader in its field: Oliver Wyman, Lippincott and NERA Economic Consulting. Oliver Wyman Group generated approximately 14% of the Company's total revenue in 2018.

**Oliver Wyman** is a leading global management consulting firm. Oliver Wyman's consultants specialize by industry and functional area, allowing clients to benefit from both deep sector knowledge and specialized expertise in strategy, operations, risk management and organization transformation. Industry groups include:

- Automotive
- · Aviation, Aerospace & Defense
- · Business Services
- Communications, Media & Technology
- · Distribution & Wholesale
- Education
- Energy
- Financial Services (including corporate and institutional banking, insurance, wealth and asset management, public policy, and retail and business banking)
- Health & Life Sciences
- Industrial Products
- Public Sector
- · Retail & Consumer Products
- Surface Transportation
- Travel & Leisure

Oliver Wyman overlays its industry knowledge with expertise in the following functional specializations:

- Actuarial. Oliver Wyman offers actuarial consulting services to public and private enterprises, self-insured group organizations, insurance companies, government entities, insurance regulatory agencies and other organizations.
- Corporate Finance & Restructuring. Oliver Wyman provides an array of capabilities to support investment decision making by private
  equity funds, hedge funds, sovereign wealth funds, investment banks, commercial banks, arrangers, strategic investors and insurers.
- Digital. Oliver Wyman has a dedicated cross-industry team helping clients capitalize on the opportunities created by digital technology and addressing the strategic threats.
- OW Labs. OW Labs applies innovative approaches to technology to drive business impact for its clients. The mission of OW Labs is to
  help clients to unleash the power of the information they already have or could capture essentially to become knowledge-powered
  businesses and through that to drive competitive advantage and sustained impact.
- Operations. Oliver Wyman offers market-leading IT organization design, IT economics management, Lean Six Sigma principles and methodologies, and sourcing expertise to clients across a broad range of industries.
- Organizational Effectiveness. Our Organizational Effectiveness capability brings together deep functional expertise and industry knowledge to enable the whole organization to work in service of its strategic vision and to address the most pressing organizational, people, and change issues.
- Payments. Oliver Wyman draws on years of industry-shaping work in the Financial Services and Retail industries, deep digital expertise, and renowned research partners at Celent, to help clients from banks/issuers, to payments providers, to retailers to build growth strategies, form effective partnerships, optimize costs, and manage risk.
- Pricing, Sales, and Marketing. We help organizations drive top-line and margin growth through outstanding strategy and decision making on pricing, marketing optimization, and best practices on sales effectiveness.

- Risk Management. Oliver Wyman works with chief financial officers, chief risk officers, and other senior finance and risk management
  executives of corporations and financial institutions on risk management solutions. Oliver Wyman provides effective, customized
  solutions to the challenges presented by the evolving roles, needs and priorities of these individuals and organizations.
- Strategy. Oliver Wyman is a leading provider of corporate strategy advice and solutions in the areas of growth strategy and corporate portfolio; non-organic growth and M&A; performance improvement; business design and innovation; corporate center and shared services; and strategic planning.
- Sustainability Center. The Sustainability Center at Oliver Wyman supports leading companies and governments around the world in their efforts to foster economic growth while encouraging more responsible use of natural resources and environmental protection.

**Lippincott** is a brand strategy and design consulting firm that advises corporations around the world in a variety of industries on corporate branding, identity and image. Lippincott has helped create some of the world's most recognized brands.

**NERA Economic Consulting** provides economic analysis and advice to public and private entities to achieve practical solutions to highly complex business and legal issues arising from competition, regulation, public policy, strategy, finance and litigation. NERA professionals operate worldwide assisting clients including corporations, governments, law firms, regulatory agencies, trade associations, and international agencies. NERA's specialized practice areas include: antitrust; securities; complex commercial litigation; energy; environmental economics; network industries; intellectual property; product liability and mass torts; and transfer pricing.

#### Compensation for Services in Consulting

Mercer and the Oliver Wyman Group of businesses are compensated for advice and services primarily through fees paid by clients. Mercer's Health business is also compensated through commissions for the placement of insurance contracts (comprising more than half of the revenue in the Health business). Mercer's Delegated Solutions business and certain of Mercer's administration services are compensated typically through fees based on assets under administration or management. For a majority of the Mercer-managed investment funds, revenue received from Mercer's investment management clients as sub-advisor fees is reported in accordance with U.S. GAAP, on a gross basis rather than a net basis. For a more detailed discussion of revenue sources and factors affecting revenue in the Consulting segment, see Part II, Item 7 ("Management's Discussion and Analysis of Financial Condition and Results of Operations") of this report.

#### REGULATION

The Company's activities are subject to licensing requirements and extensive regulation under U.S. federal and state laws, as well as laws of other countries in which the Company's subsidiaries operate. See Part I, Item 1A ("Risk Factors") below for a discussion of how actions by regulatory authorities or changes in legislation and regulation in the jurisdictions in which we operate may have an adverse effect on our businesses.

Risk and Insurance Services. While laws and regulations vary from location to location, every state of the United States and most foreign jurisdictions require insurance market intermediaries and related service providers (such as insurance brokers, agents and consultants, reinsurance brokers and managing general agents) to hold an individual or company license from a government agency or self-regulatory organization. Some jurisdictions issue licenses only to individual residents or locally-owned business entities; in those instances, if the Company has no licensed subsidiary, it may maintain arrangements with residents or business entities licensed to act in such jurisdiction. Such arrangements are subject to an internal review and approval process. Licensing of reinsurance intermediaries is generally less rigorous compared to that of insurance brokers, and most jurisdictions require only corporate reinsurance intermediary licenses.

In 2005, the Insurance Mediation Directive which, as from October 1, 2018 has been superseded by the Insurance Distribution Directive, was adopted by the United Kingdom and 26 other European Union Member States. Its implementation gave powers to the Financial Services Authority ("FSA"), the United

Kingdom regulator at the time, to expand their responsibilities in line with the Financial Services and Markets Act (2000), the result of which was the regulation of insurance and reinsurance intermediaries. The enhanced regulatory regime implemented in the United Kingdom created a licensing system based on an assessment of factors which included professional competence, financial capacity and the requirement to hold professional indemnity insurance. In April 2013, the FSA was superseded by the Financial Conduct Authority ("FCA"). In April 2014, the FCA's responsibilities were expanded further to include the regulation of credit activities for consumers. This included the broking of premium finance to consumers who wished to spread the cost of their insurance. In April 2015, the FCA obtained concurrent competition powers enabling it to enforce prohibitions on anti-competitive behavior in relation to financial services.

Insurance authorities in the United States and certain other jurisdictions in which the Company's subsidiaries do business, including the FCA in the United Kingdom, also have enacted laws and regulations governing the investment of funds, such as premiums and claims proceeds, held in a fiduciary capacity for others. These laws and regulations typically provide for segregation of these fiduciary funds and limit the types of investments that may be made with them, and generally apply to both the insurance and reinsurance business.

Certain of the Company's Risk and Insurance Services activities are governed by other regulatory bodies, such as investment, securities and futures licensing authorities. In the United States, Marsh and Guy Carpenter use the services of MMC Securities LLC, a SEC registered broker-dealer in the United States, investment adviser and introducing broker. MMC Securities LLC is a member of the Financial Industry Regulatory Authority ("FINRA"), the National Futures Association and the Securities Investor Protection Corporation ("SIPC"), primarily in connection with capital markets and other investment banking-related services relating to insurance-linked and alternative risk financing transactions. Also in the United States, Marsh uses the services of MMA Securities LLC, a SEC registered broker-dealer, investment adviser and member of FINRA and SIPC and JSL Securities, Inc., a SEC registered broker-dealer and member of FINRA, SIPC and the municipal Securities Rulemaking Board, primarily in connection with retirement, executive compensation and benefits consulting and advisory services to qualified and non-qualified benefits plans, companies and executives. In the United Kingdom, Marsh and Guy Carpenter use the expertise of MMC Securities (Europe) Limited, which is authorized and regulated by the FCA to provide advice on securities and investments, including mergers & acquisitions in the European Union. MMC Securities LLC, MMC Securities (Europe) Limited, MMA Securities LLC and JSL Securities, Inc. are indirect, wholly-owned subsidiaries of Marsh & McLennan Companies, Inc.

Consulting. Mercer's retirement-related consulting and investment services are subject to pension law and financial regulation in many countries. In addition, the trustee services, investment services (including advice to persons, institutions and other entities on the investment of pension assets and assumption of discretionary investment management responsibilities) and retirement and employee benefit program administrative services provided by Mercer and its subsidiaries and affiliates are also subject to investment and securities regulations in various jurisdictions, including regulations imposed or enforced by the SEC and the Department of Labor in the United States, the FCA in the United Kingdom, the Central Bank of Ireland and the Australian Prudential Regulation Authority and the Australian Securities and Investments Commission. In the United States, Mercer provides investment services through Mercer Investment Management, Inc. and Mercer Investment Consulting LLC, each an SEC-registered investment adviser in the United States. Mercer Trust Company, a New Hampshire chartered trust bank, provides services for Mercer's investment management business in the United States. The benefits insurance consulting and brokerage services provided by Mercer and its subsidiaries and affiliates are subject to the same licensing requirements and regulatory oversight as the insurance market intermediaries described above regarding our Risk and Insurance Services businesses. Mercer uses the services of MMC Securities (Europe) Limited in the European Union, primarily in connection with corporate finance advisory services.

**FATCA.** Regulations promulgated by the U.S. Treasury Department pursuant to the Foreign Account Tax Compliance Act and related legislation (FATCA) require the Company to take various measures relating to non-U.S. funds, transactions and accounts. The regulations impose on Mercer certain client financial account tracking and disclosure obligations with respect to non-U.S. financial institution and insurance

clients, and until recently, required Marsh and Guy Carpenter (and Mercer, in limited circumstances) to collect, validate and maintain certain documentation from each foreign insurance entity that insures a risk that is subject to the regulations. On December 13, 2018, the U.S. Treasury Department modified these rules, effectively relieving Marsh and Guy Carpenter from FATCA compliance with respect to its handling of non-cash value premium payments. As it relates to these non-cash value insurance premiums, the new rules were put into immediate effect.

## **COMPETITIVE CONDITIONS**

The Company faces strong competition in all of its businesses from providers of similar products and services, including competition with regard to identifying and pursuing acquisition candidates. The Company also encounters strong competition throughout its businesses from both public corporations and private firms in attracting and retaining qualified employees. In addition to the discussion below, see "Risks Relating to the Company Generally — Competitive Risks," in Part I, Item 1A of this report.

Risk and Insurance Services. The Company's combined insurance and reinsurance services businesses are global in scope. Our insurance and reinsurance businesses compete principally on sophistication, range, quality and cost of the services and products they offer to clients. The Company encounters strong competition from other insurance and reinsurance brokerage firms that operate on a global, regional, national or local scale, from a large number of regional and local firms in the United States, the European Union and elsewhere, from insurance and reinsurance companies that market, distribute and service their insurance and reinsurance products without the assistance of brokers or agents and from other businesses, including commercial and investment banks, accounting firms, consultants and online platforms, that provide risk-related services and products or alternatives to traditional insurance brokerage services. In addition, third party capital providers have entered the insurance and reinsurance risk transfer market offering products and capital directly to the Company's clients. Their presence in the market increases the competitive pressures that the Company faces.

Certain insureds and groups of insureds have established programs of self-insurance (including captive insurance companies) as a supplement or alternative traditional third-party insurance, thereby reducing in some cases their need for insurance placements. Certain insureds also obtain coverage directly from insurance providers. There are also many other providers of managing general agency, affinity programs and private client services, including specialized firms, insurance companies and other institutions.

Consulting. The Company's consulting businesses face strong competition from other privately and publicly held worldwide and national companies, as well as regional and local firms. These businesses generally compete on the basis of the range, quality and cost of the services and products they provide to clients. Competitors include independent consulting and outsourcing firms, as well as consulting and outsourcing operations affiliated with accounting, information systems, technology and financial services firms. Mercer's investments business faces competition from many sources, including investment consulting firms (many of which offer delegated services) and other financial institutions. In some cases, clients have the option of handling the services provided by Mercer and Oliver Wyman Group internally, without assistance from outside advisors.

## Segmentation of Activity by Type of Service and Geographic Area of Operation.

Financial information relating to the types of services provided by the Company and the geographic areas of its operations is incorporated herein by reference to Note 17 to the consolidated financial statements included under Part II, Item 8 of this report.

#### **Employees**

As of December 31, 2018, the Company and its consolidated subsidiaries employed over 65,000 colleagues worldwide, including approximately 36,000 in Risk and Insurance Services and 28,000 in Consulting.

#### **EXECUTIVE OFFICERS OF THE COMPANY**

The executive officers and executive officer appointees of the Company are appointed annually by the Company's Board of Directors. The following individuals are the executive officers of the Company:

Peter J. Beshar, age 57, is Executive Vice President and General Counsel of Marsh & McLennan Companies. Mr. Beshar leads the Company's Legal, Compliance, Public Affairs, Risk Management and External Communications Departments. Before joining Marsh & McLennan Companies in November 2004, Mr. Beshar was a Litigation Partner in the law firm of Gibson, Dunn & Crutcher LLP. Mr. Beshar joined Gibson, Dunn & Crutcher in 1995 after serving as an Assistant Attorney General in the New York Attorney General's office and as the Special Assistant to Cyrus Vance in connection with the peace negotiations in the former Yugoslavia.

**John Q. Doyle**, age 55, is President and Chief Executive Officer of Marsh and oversees all of Marsh's businesses and operations globally. Mr. Doyle was named CEO of Marsh in July 2017. He joined Marsh & McLennan Companies as President of Marsh in April 2016. Prior to that, he was most recently Chief Executive Officer of AIG's commercial insurance businesses. Mr. Doyle began his career at AIG in 1986 and held several senior executive positions, including President and Chief Executive Officer of AIG property and casualty in the U.S., President and Chief Executive Officer of National Union Fire Insurance Company, and President of American Home Assurance Company.

Martine Ferland, age 57, is Group President of Mercer. Effective March 1, 2019, Ms. Ferland will assume the position of President and CEO of Mercer. Ms. Ferland joined Mercer in 2011 as Retirement Business Leader for EMEA Region. She then served as Europe and Pacific Region President and Co-President, Global Health, before being named Mercer Group President. Prior to joining Mercer she held senior leadership positions at Willis Towers Watson in Montreal and New York. She is a Fellow of the Society of Actuaries and of the Canadian Institute of Actuaries.

E. Scott Gilbert, age 63, is Senior Vice President and Chief Information Officer of Marsh & McLennan Companies. In addition, Mr. Gilbert oversees the Company's global Business Resiliency and Security operations. Prior to assuming his current role in September 2015, Mr. Gilbert served as Senior Vice President and Chief Risk and Compliance Officer of the Company. Prior to joining Marsh & McLennan Companies in January 2005, he had been the Chief Compliance Counsel of the General Electric Company since September 2004. Prior thereto, he was Counsel, Litigation and Legal Policy at GE. Between 1986 and 1992, when he joined GE, he served as an Assistant United States Attorney in the Southern District of New York.

Daniel S. Glaser, age 58, is President and Chief Executive Officer of Marsh & McLennan Companies. Prior to assuming his current role in 2013, Mr. Glaser served as Group President and Chief Operating Officer of the Company, with operational and strategic oversight of its Risk and Insurance Services and Consulting segments. He rejoined Marsh & McLennan Companies in December 2007 as Chairman and Chief Executive Officer of Marsh, returning to the firm where he had begun his career right out of university in 1982. Mr. Glaser is an insurance industry veteran who has held senior positions in commercial insurance and insurance brokerage, working in the United States, Europe and the Middle East. Mr. Glaser serves as the Chairman of the U.S. Federal Advisory Committee on Insurance (FACI). He is a member of the Boards of Trustees for The Institutes and Ohio Wesleyan University; the Board of Directors for the Partnership for New York City; and the Advisory Councils for St. George's Society of New York and BritishAmerican Business.

**Peter Hearn**, age 63, is President and Chief Executive Officer of Guy Carpenter. Previously, he was Global Chairman of Willis Re from March 2011 to June 2015. Prior to that, Mr. Hearn served as the company's Global CEO from February 2005 to March 2011, during which time he was also a member of the Willis Group Executive Committee. Mr. Hearn began his reinsurance career in 1978 with Willis Faber and Dumas, working in the North American casualty, facultative, marine, and North American reinsurance divisions until 1981, when he joined Towers Perrin Forster and Crosby. Mr. Hearn joined Willis Re as a Senior Vice President in 1994.

Laurie Ledford, age 61, is Senior Vice President and Chief Human Resources Officer of Marsh & McLennan Companies. Ms. Ledford is responsible for Marsh & McLennan Companies' overall human capital and talent strategy and the delivery of human resources services to all our colleagues worldwide. Prior to her current role, Ms. Ledford served as Chief Human Resources Officer (CHRO) for Marsh Inc.

Ms. Ledford joined Marsh in 2000 and was named CHRO in 2006, after having served as Senior Human Resources Director for Marsh's International Specialty Operations. Her prior experience was with Citibank and NationsBank.

Scott McDonald, age 52, is President and Chief Executive Officer of Oliver Wyman Group. Prior to assuming this role in January 2014, Mr. McDonald was President of Oliver Wyman. Before becoming President of Oliver Wyman in 2012, Mr. McDonald was the Managing Partner of Oliver Wyman's Financial Services practice and has held a number of senior positions, including the Global head of the Corporate & Institutional Banking practice. Before joining Oliver Wyman in 1995, he was an M&A investment banker with RBC Dominion Securities in Toronto.

Mark McGivney, age 51, is Chief Financial Officer of Marsh & McLennan Companies and has held this position since January 1, 2016. Prior to his current role, Mr. McGivney held a number of senior financial management positions since joining the Company in 2007, including Senior Vice President, Corporate Finance, Chief Financial Officer of Marsh, and Chief Financial Officer and Chief Operating Officer of Mercer. His prior experience includes senior positions at The Hanover Insurance Group, including serving as Senior Vice President of Finance, Treasurer, and Chief Financial Officer of the Property & Casualty business, and investment banking positions at Merrill Lynch and Salomon Brothers.

Julio A. Portalatin, age 59, is President and Chief Executive Officer of Mercer. Effective March 1, 2019, Mr. Portalatin will serve as Vice Chairman of Marsh & McLennan Companies and will no longer serve as an executive officer of Marsh & McLennan Companies. Prior to joining Mercer in February 2012, Mr. Portalatin was the President and CEO of Chartis Growth Economies, and Senior Vice President, American International Group (AIG). In that role, he had responsibility for operations in Asia Pacific, South Asia, Latin America, Africa, the Middle East and Central Europe. Mr. Portalatin began his career with AIG in 1993 and thereafter held a number of key leadership roles, including President of the Worldwide Accident & Health Division at American International Underwriters (AIU) from 2002-2007. From 2007-2010, he served as President and CEO of Chartis Europe S.A. and Continental European Region, based in Paris, before becoming President and CEO of Chartis Emerging Markets. Prior to joining AIG / Chartis, Mr. Portalatin spent 12 years with Allstate Insurance Company in various executive product underwriting, distribution and marketing positions. Mr. Portalatin also serves on the Board of Directors of DXC Technology.

## **AVAILABLE INFORMATION**

The Company is subject to the information reporting requirements of the Securities Exchange Act of 1934. In accordance with the Exchange Act, the Company files with, or furnishes to, the SEC annual reports on Form 10-K, quarterly reports on Form 10-Q and current reports on Form 8-K. The Company makes these reports and any amendments to these reports available free of charge through its website, <a href="www.mmc.com">www.mmc.com</a>, as soon as reasonably practicable after they are filed with or furnished to the SEC. The SEC also maintains a website at <a href="www.sec.gov">www.sec.gov</a> that contains reports, proxy and information statements and other information regarding issuers, like the Company, that file electronically with the SEC.

The Company also posts on its website certain governance and other information for investors.

The Company encourages investors to visit these websites from time to time, as information is updated and new information is posted. Website references in this report are provided as a convenience and do not constitute, and should not be viewed as, incorporation by reference of the information contained on, or available through, the websites. Therefore, such information should not be considered part of this report.

#### Item 1A. Risk Factors

You should consider the risks described below in conjunction with the other information presented in this report. These risks have the potential to materially adversely affect the Company's business, results of operations or financial condition.

#### RISKS RELATING TO THE COMPANY GENERALLY

Acquisitions and Dispositions Risks

#### We face risks when we acquire businesses, including risks related to our proposed acquisition of JLT.

We have a history of making acquisitions and investments, including a total of 114 in the period from 2013 to 2018. In September 2018, we announced our agreement to acquire the Jardine Lloyd Thompson Group plc ("JLT"). We expect the acquisition of JLT (the "JLT Transaction") to close in the spring of 2019; however, we can provide no assurance that the various conditions to closing the JLT Transaction will be satisfied.

We may not be able to successfully integrate the business of JLT or any other business that we may acquire into our own business, or achieve any expected cost savings or synergies from such integration. The potential difficulties that we may face which could cause the results of the acquisition of JLT or any other business to differ from our expectations, include, but are not limited to, the following:

- the retention of key colleagues and clients;
- failure to implement our business plan for the combined business or to achieve anticipated revenue or profitability targets;
- · delays or difficulties in completing the integration of acquired companies or assets;
- higher than expected costs, lower than expected cost savings and/or a need to allocate resources to manage unexpected operating difficulties;
- · issues in integrating information and technology, accounting, tax, financial reporting, human resources, and other systems;
- · assumption of unknown liabilities, or other unanticipated issues, expenses and liabilities;
- weaknesses and vulnerabilities in an acquired entity's information systems, either before or after the acquisition, which could
  expose us to unexpected liabilities or make our own systems more vulnerable to a cyber-attack;
- changes in applicable laws and regulations, including changes in tax laws and any changes in the U.K. and Europe related to Brexit;
- · diversion of attention and resources of management;
- · promoting or retaining a positive corporate culture;
- · retaining and obtaining required regulatory approvals, licenses and permits;
- for acquisitions in which the acquired company's financial performance is incorporated into our financial results, either in full or in part, the dependence on the acquired company's accounting, financial reporting and similar systems, controls and processes;
- the difficulty of implementing the required controls, procedures and policies appropriate for a U.S. public company, including compliance with the requirements under the Sarbanes-Oxley Act of 2002, and the potential for significant deficiencies or material weaknesses related to controls and procedures, particularly for acquisitions of companies headquartered outside the U.S.;
- · the ability to receive dividends and other payments from newly acquired companies; and
- compliance with all current and potentially applicable U.S. federal and state or foreign laws and regulations, including the U.S. Foreign Corrupt Practices Act and U.S. sanctions laws.

In addition, if in the future the performance of our reporting units or an acquired business varies from our projections or assumptions, or estimates about future profitability of our reporting units or an acquired business change, the estimated fair value of our reporting units or an acquired business could change materially and could result in an impairment of goodwill and other acquisition-related intangible assets recorded on our balance sheet or in adjustments in contingent payment amounts. Given the significant size of the Company's goodwill and intangible assets, an impairment could have a material adverse effect on our results of operations in any given period.

We expect that acquisitions will continue to be a key part of our business strategy. Our success in this regard will depend on our ability to identify and compete for appropriate acquisition candidates and to complete the transactions we decide to pursue with favorable results.

When we dispose of businesses, we may continue to be subject to certain liabilities of that business after its disposition relating to the prior period of our ownership and may not be able to negotiate for limitations on those liabilities. We are also subject to the risk that the sales price is less than the amount reflected on our balance sheet.

#### Legal and Regulatory Risks

#### We are subject to significant uninsured exposures arising from errors and omissions, breach of fiduciary duty and other claims.

Our operating companies provide numerous professional services, including the placement of insurance and the provision of consulting, investment advisory and actuarial services, to clients around the world. As a result, the Company and its subsidiaries are subject to a significant number of errors and omissions, breach of fiduciary duty and similar claims, which we refer to collectively as "E&O claims." In our Risk and Insurance Services segment, such claims include allegations of damages arising from our failure to assess clients' risks, advise clients, place coverage or notify insurers of potential claims on behalf of clients in accordance with our obligations to them. In our Consulting segment, where we increasingly act in a fiduciary capacity through our investments business, such claims could include allegations of damages arising from the provision of consulting, investments, actuarial, pension administration and other services. These Consulting segment services frequently involve complex calculations and other analysis, including (i) making assumptions about, and preparing estimates concerning, contingent future events, (ii) drafting and interpreting complex documentation governing pension plans, (iii) calculating benefits within complex pension structures, (iv) providing investment advice, including guidance on asset allocation and investment strategy, and (v) managing client assets, including the selection of investment managers and implementation of the client's investment policy. We provide these services to a broad client base, including clients in the public sector for our investment services. Matters often relate to services provided by the Company dating back many years. Such claims may subject us to significant liability for monetary damages, including punitive and treble damages, negative publicity and reputational harm, and may divert personnel and management resources. We may be unable to effectively limit our potential liability in certain jurisdictions, including through insurance, or in co

In establishing liabilities for E&O claims under generally accepted accounting principles ("GAAP"), the Company uses case level reviews by inside and outside counsel, actuarial analysis by Oliver Wyman Group, a subsidiary of the Company, and other methods to estimate potential losses. A liability is established when a loss is both probable and reasonably estimable. The liability is assessed quarterly and adjusted as developments warrant. In many cases, the Company has not recorded a liability, other than for legal fees to defend the claim, because we are unable, at the present time, to make a determination that a loss is both probable and reasonably estimable. Given the challenges inherent in establishing liabilities in accordance with GAAP, as well as the unpredictability of E&O claims and the litigation that can flow from them, it is possible that an adverse outcome in a particular matter could have a material adverse effect on the Company's business, results of operations or financial condition.

We are subject to regulatory investigations, reviews and other inquiries that consume significant management time and, if determined unfavorably to us, could have a material adverse effect on our business, results of operations or financial condition.

We are subject to regulatory investigations, reviews and other inquiries that consume significant management time and, if determined unfavorably to us, could have a material adverse effect on our

business, results of operations or financial condition. For example, in October 2017, the Company received a notice that the Directorate-General for Competition of the European Commission had commenced a civil investigation of a number of insurance brokers, including Marsh, regarding "the exchange of commercially sensitive information between competitors in relation to aviation and aerospace insurance and reinsurance broking products and services in the European Economic Area, as well as possible coordination between competitors." In July 2017, the Directorate-General for Competition of the European Commission together with the Irish Competition and Consumer Protection Commission conducted on-site inspections at the offices of Marsh and other industry participants in Dublin in connection with an investigation regarding the "possible participation in anticompetitive agreements and/or concerted practices contrary to [E.U. competition law] in the market for commercial motor insurance in the Republic of Ireland." In January 2019, we received a notice that the Administrative Council for Economic Defense anti-trust agency in Brazil had commenced an administrative proceeding against a number of insurance brokers, including Marsh, and insurers "to investigate an alleged sharing of sensitive commercial and competitive confidential information" in the aviation insurance and reinsurance sector.

These regulatory matters are ongoing, and we are unable to predict their likely timing, outcome or ultimate impact. Additional information regarding these investigations and certain other legal and regulatory proceedings is set forth in Note 16 to our consolidated financial statements included under Part II, Item 8 of this report. In addition, by virtue of the acquisition of JLT, we will assume the legal liabilities of JLT upon closing. Accordingly, upon closing of the acquisition, we will become responsible for JLT's legal and regulatory exposures, some of which may be currently unidentified.

We cannot guarantee that we are or will be in compliance with all current and potentially applicable U.S. federal and state or foreign laws and regulations, and actions by regulatory authorities or changes in legislation and regulation in the jurisdictions in which we operate could have a material adverse effect on our business.

Our activities are subject to extensive regulation under the laws of the United States and its various states, the United Kingdom, the European Union and its member states and the other jurisdictions in which we operate. For example, we are subject to regulation by agencies such as the Securities and Exchange Commission, FINRA and state insurance regulators in the United States, the FCA and the Competition and Markets Authority (CMA) in the United Kingdom, and the European Commission in the European Union, as further described above under Part I, Item 1 - Business (Regulation) of this report. We are also subject to trade sanctions laws relating to countries such as Cuba, Iran, Russia, Sudan and Syria, and anti-corruption laws such as the U.S. Foreign Corrupt Practices Act and the U.K. Anti-Bribery Act. We are subject to numerous other laws on matters as diverse as internal control over financial reporting and disclosure controls and procedures, securities regulation, data privacy and protection, cybersecurity, taxation, anti-trust and competition, immigration, wage-and-hour standards and employment and labor relations.

The U.S. and foreign laws and regulations that apply to our operations are complex and may change rapidly, and our efforts to comply and keep up with them require significant resources. In some cases, these laws and regulations may decrease the need for our services, increase our costs, negatively impact our revenues or impose operational limitations on our business, including on the products and services we may offer or on the amount or type of compensation we may collect. While we attempt to comply with applicable laws and regulations, there can be no assurance that we, our employees, our consultants and our contractors and other agents are in full compliance with such laws and regulations or interpretations at all times, or that we will be able to comply with any future laws or regulations. If we fail to comply or are accused of failing to comply with applicable laws and regulations, including those referred to above, we may become subject to investigations, criminal penalties, civil remedies or other consequences, including fines, injunctions, loss of an operating license or approval, increased scrutiny or oversight by regulatory authorities, the suspension of individual employees, limitations on engaging in a particular business or redress to clients or other parties, and we may become exposed to negative publicity or reputational damage. Moreover, our failure to comply with laws or regulations in one jurisdiction may result in increased regulatory scrutiny by other regulatory agencies in that jurisdiction or regulatory agencies in other jurisdictions. The cost of compliance and the consequences of failing to be in compliance could therefore have a material adverse effect on our business, results of operations and financial condition.

In most jurisdictions, government regulatory authorities have the power to interpret and amend or repeal applicable laws and regulations, and have discretion to grant, renew and revoke the various licenses and approvals we need to conduct our activities. Such authorities may require the Company to incur substantial costs in order to comply with such laws and regulations. In some areas of our businesses, we act on the basis of our own or the industry's interpretations of applicable laws or regulations, which may conflict from state to state or country to country. In the event those interpretations eventually prove different from the interpretations of regulatory authorities, we may be penalized or precluded from carrying on our previous activities. Moreover, the laws and regulations to which we are subject may conflict among the various jurisdictions and countries in which we operate, which increases the likelihood of our businesses being non-compliant in one or more jurisdictions.

#### Cybersecurity and Data Protection Risks

# We could incur significant liability or our reputation could be damaged if our information systems are breached or we otherwise fail to protect client or Company data or information systems.

We rely on the efficient, uninterrupted and secure operation of complex information technology systems and networks to operate our business and securely process, transmit and store electronic information. In the normal course of business, we also share electronic information with our vendors and other third parties. This electronic information comprises sensitive and confidential data, including information related to financial records, health care, mergers and acquisitions and clients' personal data. Our information technology systems and safety control systems, and those of our numerous third-party providers, are potentially vulnerable to damage or interruption from a variety of external threats, including cyber-attacks, computer viruses and other malware, ransomware and other types of data and systems-related modes of attack. Our systems are also subject to compromise from internal threats such as improper action by employees, vendors and other third parties with otherwise legitimate access to our systems. Moreover, we face the ongoing challenge of managing access controls in a complex environment. The latency of a compromise is often measured in months but could be years, and we may not be able to detect a compromise in a timely manner. We could experience significant financial and reputational harm if our information systems are breached, sensitive client or Company data are compromised, surreptitiously modified, rendered inaccessible for any period of time or maliciously made public, or if we fail to make adequate or timely disclosures to the public or law enforcement agencies following any such event, whether due to delayed discovery or a failure to follow existing protocols.

We are at risk of attack by a variety of adversaries, including state-sponsored organizations, organized crime, hackers or "hactivists" (activist hackers), through use of increasingly sophisticated methods of attack, including long-term, persistent attacks referred to as advanced persistent threats. These techniques used to obtain unauthorized access or sabotage systems include, among other things, computer viruses, malicious or destructive code, ransomware, social engineering attacks (including phishing and impersonation), hacking and denial-of-service attacks. Because these techniques change frequently and new techniques may not be identified until they are launched against a target, we may be unable to anticipate these techniques or implement adequate preventative measures, resulting in potential data loss or other damage to information technology systems.

As the breadth and complexity of the technologies we use and the software and platforms we develop continue to grow, including as a result of the use of mobile devices, cloud services, "open source" software, social media and the increased reliance on devices connected to the Internet (known as the "Internet of Things"), the potential risk of security breaches and cyber-attacks also increases. Despite ongoing efforts to improve our ability to protect data from compromise, we may not be able to protect all of our data across our diverse systems. Our policies, employee training (including phishing prevention training), procedures and technical safeguards may also be insufficient to prevent or detect improper access to confidential, personal or proprietary information. In addition, the competition for talent in the data privacy and cybersecurity space is intense, and we may also be unable to hire, develop or retain suitable talent capable of adequately detecting, mitigating or remediating these risks.

Should an attacker gain access to our network using compromised credentials of an authorized user, we are at risk that the attacker might successfully leverage that access to compromise additional systems and data. Certain measures that could increase the security of our systems, such as data encryption (including data at rest encryption), heightened monitoring and logging, scanning for source code errors or

deployment of multi-factor authentication, take significant time and resources to deploy broadly, and such measures may not be deployed in a timely manner or be effective against an attack. The inability to implement, maintain and upgrade adequate safeguards could have a material adverse effect on our business.

Our information systems must be continually updated, patched, and upgraded to protect against known vulnerabilities. The volume of new software vulnerabilities has increased markedly, as has the criticality of patches and other remedial measures. In addition to remediating newly identified vulnerabilities, previously identified vulnerabilities must also be continuously addressed. Accordingly, we are at risk that cyber attackers exploit these known vulnerabilities before they have been addressed. Due to the large number and age of the systems and platforms that we operate, the increased frequency at which vendors are issuing security patches to their products, the need to test patches and, in some cases coordinate with clients and vendors, before they can be deployed, we perpetually face the substantial risk that we cannot deploy patches in a timely manner. We are also dependent on third party vendors to keep their systems patched and secure in order to protect our data. Any failure related to these activities could have a material adverse effect on our business.

We have numerous vendors and other third parties who receive personal information from us in connection with the services we offer our clients. In addition, we have migrated certain data, and may increasingly migrate data, to the cloud hosted by third-party providers. Some of these vendors and third parties also have direct access to our systems. We are at risk of a cyber-attack involving a vendor or other third party, which could result in a breakdown of such third party's data protection processes or the cyber-attackers gaining access to our infrastructure through the third party. To the extent that a vendor or third party suffers a cyber-attack that compromises its operations, we could incur significant costs and possible service interruption, which could have an adverse effect on our business.

We have a history of making acquisitions and investments, and in September 2018 we announced the agreement to acquire JLT. The process of integrating the information systems of the businesses we acquire is complex and exposes us to additional risk. For instance, we may not adequately identify weaknesses and vulnerabilities in an acquired entity's information systems, either before or after the acquisition, which could affect the value we are able to derive from the acquisition, expose us to unexpected liabilities or make our own systems more vulnerable to a cyber-attack. We may also be unable to integrate the systems of the businesses we acquire into our environment in a timely manner, which could further increase these risks until such integration takes place.

We have from time to time experienced data incidents and cybersecurity breaches, such as malware incursions (including computer viruses and ransomware), users exceeding their data access authorization, employee misconduct and incidents resulting from human error, such as loss of portable and other data storage devices or misconfiguration of software or hardware resulting in inadvertent exposure of confidential or proprietary information. Like many companies, we are subject to social engineering attacks such as regular phishing email campaigns directed at our employees that can result in malware infections and data losses. Although these incidents have resulted in data loss and other damages, to date, they have not had a material adverse effect on our business or operations. In the future, these types of incidents could result in confidential, personal or proprietary information being lost or stolen, surreptitiously modified, rendered inaccessible for any period of time, or maliciously made public, including client, employee or Company data, which could have a material adverse effect on our business. In the event of a cyber-attack, we might have to take our systems offline, which could interfere with services to our clients or damage our reputation. We also may be unable to detect an incident, assess its severity or impact, or appropriately respond in a timely manner. In addition, our liability insurance, which includes cyber insurance, may not be sufficient in type or amount to cover us against claims related to security breaches, cyber-attacks and other related data and system incidents.

The costs to comply with, or our failure to comply with, U.S. and foreign laws related to privacy, data security and data protection, such as the E.U. General Data Protection Regulation, could adversely affect our financial condition, operating results and our reputation.

In operating our business and providing services and solutions to clients, we store and transfer sensitive employee and client data, including personal data, in and across multiple jurisdictions. We leverage systems and applications that are spread all over the world requiring us to regularly move data across national borders. As a result, we are subject to a variety of laws and regulations in the United States, Europe and around the world regarding privacy, data protection, data security and cyber-security. These laws and regulations are continuously evolving and developing. In particular, the number of high-profile security breaches at major companies continues to accelerate, which will likely lead to even greater regulatory scrutiny.

The scope and interpretation of the laws that are or may be applicable to us are often uncertain and may be conflicting, particularly with respect to foreign laws. For example, the E.U. General Data Protection Regulation ("GDPR"), which became effective in May 2018, greatly increased the European Commission's jurisdictional reach of its laws and adds a broad array of requirements for handling personal data, such as the public disclosure of data breaches, privacy impact assessments, data portability and the appointment of data protection officers in some cases. Much remains unknown with respect to how to interpret and implement the GDPR. EU member states are tasked under the GDPR to enact certain implementing legislation that would add to or further interpret the GDPR requirements and potentially extend our obligations and potential liability for failing to meet such obligations. Given the breadth and depth of changes in data protection obligations, including classification of data and our commitment to a range of administrative, technical and physical controls to protect data and enable data transfers outside of the EU, our compliance with the GDPR's requirements will continue to require time, resources and review of the technology and systems we use to satisfy the GDPR's requirements, including as EU member states enact their legislation.

The implementation of the GDPR has led other jurisdictions to amend, or propose legislation to amend, their existing data protection laws to align with the requirements of the GDPR with the aim of obtaining an adequate level of data protection to facilitate the transfer of personal data to most jurisdictions from the EU. Accordingly, the challenges we face in the EU will likely also apply to other jurisdictions outside the EU that adopt laws similar in construction to the GDPR or regulatory frameworks of equivalent complexity. For example, Brazil, China, India and Japan have also proposed or adopted sweeping new data protection laws, in some cases including data localization laws that will require that personal data stay within their borders. At a state level, California has enacted a broad consumer privacy law that will come into effect in 2020 and several other states have introduced similar bills, or are enacting data localization laws that require data to stay within their borders. In addition to data protection laws, countries and states in the U.S. are enacting cybersecurity laws and regulations. For example, the New York State Department of Financial Services issued in 2017 cybersecurity regulations which impose an array of detailed security measures on covered entities. These requirements are being phased in and the last of them comes into effect on March 1, 2019. All of these evolving compliance and operational requirements impose significant costs that are likely to increase over time, may divert resources from other initiatives and projects and could restrict the way services involving data are offered, all of which may adversely affect our results of operations.

Furthermore, enforcement actions and investigations by regulatory authorities related to data security incidents and privacy violations continue to increase. Unauthorized disclosure or transfer of sensitive or confidential client or Company data, whether through systems failure, employee negligence, fraud or misappropriation, by the Company, our vendors or other parties with whom we do business (if they fail to meet the standards we impose) could subject us to significant litigation, monetary damages, regulatory enforcement actions, fines and criminal prosecution in one or more jurisdictions. Given the complexity of operationalizing the GDPR, the maturity level of proposed compliance frameworks and the relative lack of guidance in the interpretation of its numerous requirements, we and our clients are at risk of enforcement actions taken by EU data protection authorities or litigation from consumer advocacy groups acting on behalf of data subjects.

#### Competitive Risks

# Our business performance and growth plans could be negatively affected if we are not able to respond effectively to the threat of digital disruption and other technological change.

To remain competitive in many of our business areas, we must anticipate and respond effectively to the threat of digital disruption and other technological change. The threat comes from traditional players, such as insurers, through disintermediation as well as from new entrants, such as technology companies, "Insurtech" start-up companies and others. These players are focused on using technology and innovation, including artificial intelligence (AI), robotics and blockchain, to simplify and improve the client experience, increase efficiencies, alter business models and effect other potentially disruptive changes in the industries in which we operate.

In order to maintain a competitive position, we must continue to upgrade our legacy operating technology and invest in new technologies and new ways to deliver our products and services. We have a number of strategic initiatives involving investments in or partnerships with technology companies as well as investments in technology systems and infrastructure to support our growth strategy. These investments may be costly, may not be profitable or may be less profitable than what we have experienced historically. In some cases, we depend on key vendors and partners to provide technology and other support for our strategic initiatives. If these vendors or partners fail to perform their obligations or otherwise cease to work with us, our ability to execute on our strategic initiatives could be adversely affected. If we do not keep up with technological changes or execute effectively on our strategic initiatives, our business and results of operations could be adversely impacted.

#### Failure to maintain our corporate culture or damage to our reputation could have a material adverse effect on our business.

We strive to create a culture in which our colleagues act with integrity and respect and feel comfortable speaking up to report instances of misconduct or other concerns. We are a people business, and our ability to attract and retain employees and clients is highly dependent upon our commitment to a diverse and inclusive workplace, our level of service, trustworthiness, ethical business practices and other qualities. Our colleagues are the cornerstone of this culture, and acts of misconduct by any employee, and particularly by senior management, could erode trust and confidence and damage our reputation among existing and potential clients and other stakeholders. Negative public opinion could result from actual or alleged conduct by us or those currently or formerly associated with us in any number of activities or circumstances, including operations, employment-related offenses such as sexual harassment and discrimination, regulatory compliance, and the use and protection of data and systems, satisfaction of client expectations, and from actions taken by regulators or others in response to such conduct. Any damage to our reputation could affect the confidence of our clients, rating agencies, regulators, stockholders and the other parties in a wide range of transactions that are important to our business and could have a material adverse effect on our business, financial condition and operating results.

#### The loss of members of our senior management team or other key colleagues could have a material adverse effect on our business.

We rely upon the contributions of our senior management team to establish and implement our business strategy and to manage the future growth of our business. The loss of any of the senior management team could limit our ability to successfully execute our business strategy or adversely affect our ability to retain existing and attract new clients. Moreover, we could be adversely affected if we fail to adequately plan for the succession of members of our senior management team.

Across all of our businesses, our colleagues are critical to developing and retaining client relationships as well as performing the services on which our revenues are earned. It is therefore important for us to attract, incentivize and retain significant revenue-producing employees and the key managerial and other professionals who support them. We face numerous challenges in this regard, including the intense competition for talent and the general mobility of colleagues.

Losing colleagues who manage or support substantial client relationships or possess substantial experience or expertise could adversely affect our ability to secure and complete client engagements, which could adversely affect our results of operations. And, subject to applicable enforceable restrictive

covenants, if a key employee were to join an existing competitor or form a competing company, some of our clients could choose to use the services of that competitor instead of our services.

#### We face significant competitive pressures in each of our businesses, including from disintermediation.

As a global professional services firm, the Company faces intense, sustained competition in each of its businesses, and the competitive landscape continues to change and evolve. Our ability to compete successfully depends on a variety of factors, including the quality and expertise of our colleagues, our geographic reach, the sophistication and quality of our services, our pricing relative to competitors, our clients' ability to self-insure or use internal resources instead of consultants, and our ability to respond to changes in client demand and industry conditions. Some of our competitors may have greater financial resources, or may be better positioned to respond to technological and other changes in the industries we serve, and they may be able to compete more effectively. If we are unable to respond successfully to the changing conditions we face, our businesses, results of operations and financial condition will be adversely impacted.

In our Risk and Insurance Services segment, in addition to the challenges posed by capital market alternatives to traditional insurance and reinsurance, we compete intensely against a wide range of other insurance and reinsurance brokerage and risk advisory firms that operate on a global, regional, national or local scale for both client business and employee talent. In the last ten years, private equity sponsors have invested tens of billions of dollars into the insurance brokerage sector, transforming existing players and creating new ones to compete with large global and regional brokers. We also compete with in-house brokers, captive insurance companies, insurance and reinsurance companies that market and service their insurance products directly to consumers and without the assistance of brokers or other market intermediaries, and with various other companies that provide risk-related services or alternatives to traditional brokerage services, including those that rely almost exclusively on technological solutions or platforms. This competition is intensified by an industry trend toward a "syndicated" or "distributed" approach to the purchase of insurance and reinsurance brokerage services, where a client engages multiple brokers to service different portions of the client's account. In addition, third party capital providers have entered the insurance and reinsurance risk transfer market offering products and capital directly to our clients that serve as substitutes for traditional insurance.

In our Consulting segment, we compete for business with numerous consulting firms and similar organizations, many of whom also provide, or are affiliated with firms that provide, accounting, information systems, technology and financial services. Such competitors may be able to offer more comprehensive products and services to potential clients, which may give them a competitive advantage.

### Consolidation in the industries we serve could adversely affect our business.

Companies in the industries that we serve may seek to achieve economies of scale and other synergies by combining with or acquiring other companies. If two or more of our current clients merge, or consolidate or combine their operations, it may decrease the amount of work that we perform for these clients. If one of our current clients merges or consolidates with a company that relies on another provider for its services, we may lose work from that client or lose the opportunity to gain additional work. Any of these or similar possible results of industry consolidation could adversely affect our business. The insurance industry continued to see robust market consolidation in 2018, and this trend could continue or accelerate in 2019. As insurance and reinsurance companies continue to consolidate, Guy Carpenter's smaller client base may be more susceptible to this risk given the limited number of insurance company clients and reinsurers in the marketplace.

We rely on a large number of vendors and other third parties to perform key functions of our business operations and to provide services to our clients. These vendors and third parties may act in ways that could harm our business.

We rely on a large number of vendors and other third parties, and in some cases subcontractors, to provide services, data and information such as technology, information security, funds transfers, business process management, and administration and support functions that are critical to the operations of our business. These third parties include correspondents, agents and other brokers and intermediaries, insurance markets, data providers, plan trustees, payroll service providers, software and system vendors, health plan providers, investment managers, risk modeling providers, outsourced providers of client-

related services and providers of human resource functions, such as recruiters. As we do not fully control the actions of these third parties, we are subject to the risk that their decisions or operations may adversely impact us and replacing these service providers could create significant delay and expense. A failure by the third parties to comply with service level agreements, or regulatory or legal requirements in a high quality and timely manner, particularly during periods of our peak demand for their services, could result in economic and reputational harm to us. In addition, these third parties face their own technology, operating, business and economic risks, and any significant failures by them, including the improper use or disclosure of our confidential client, employee, or Company information or failure to comply with applicable law, could cause harm to our reputation or otherwise expose us to liability. An interruption in or the cessation of service by any service provider as a result of systems failures, capacity constraints, financial difficulties or for any other reason could disrupt our operations, impact our ability to offer certain products and services, and result in contractual or regulatory penalties, liability claims from clients or employees, damage to our reputation and harm to our business.

#### **Business Resiliency Risks**

Our inability to successfully recover should we experience a disaster or other business continuity or data recovery problem could cause material financial loss, loss of human capital, regulatory actions, reputational harm or legal liability.

If we experience a local or regional disaster or other business continuity event, such as an earthquake, hurricane, flood, terrorist attack, pandemic, security breach, cyber-attack, power loss or telecommunications failure, our ability to operate will depend, in part, on the continued availability of our personnel, our office facilities and the proper functioning of our computer, telecommunication and other related systems and operations. In such an event, we could experience operational challenges that could have a material adverse effect on our business. The risk of business disruption is more pronounced in certain geographic areas, including major metropolitan centers, like New York or London, where we have significant operations and approximately 3,500 colleagues in each location, and in certain countries and regions in which we operate that are subject to higher potential threat of terrorist attacks or military conflicts.

Our operations depend in particular upon our ability to protect our technology infrastructure against damage. If a business continuity event occurs, we could lose client or Company data or experience interruptions to our operations or delivery of services to our clients, which could have a material adverse effect. A cyber-attack or other business continuity event affecting us or a key vendor or other third party could result in a significant and extended disruption in the functioning of our information technology systems or operations or our ability to recover data, requiring us to incur significant expense to address and remediate or otherwise resolve such issues. For example, hackers have increasingly targeted companies by attacking internet-connected industrial control and safety control systems. An extended outage could result in the loss of clients and a decline in our revenues.

We regularly assess and take steps to improve our existing business continuity, disaster recovery and data recovery plans and key management succession. However, a disaster or other continuity event on a significant scale or affecting certain of our key operating areas within or across regions, or our inability to successfully recover from such an event, could materially interrupt our business operations and result in material financial loss, loss of human capital, regulatory actions, reputational harm, damaged client relationships and legal liability. Our business disruption insurance may also not fully cover, in type or amount, the cost of a successful recovery in the event of such a disruption.

#### Financial Risks

#### The ongoing effects from the 2017 Tax Cuts and Jobs Act could make our results difficult to predict.

Our effective tax rate may fluctuate in the future as a result of the 2017 Tax Cuts and Jobs Act (the "TCJA"), which included significant changes in U.S. income tax law that has a meaningful impact on our provision for income taxes and requires significant judgments and estimates in interpretation and calculations. We made reasonable estimates of the effects of the deemed repatriation of earnings and other transitional provisions and recorded provisional amounts in our financial statements for the year ended December 31, 2017. The provisional estimates were trued up during 2018 pursuant to SAB 118. However, these estimates and the ongoing impact of the TCJA are based on our current knowledge and

assumptions, and therefore the ultimate impacts remain uncertain. Given the significant complexity of the TCJA, the potential for new legislation or additional guidance from U.S. Treasury, the Securities and Exchange Commission, the Financial Accounting Standards Board or other regulatory authorities related to the TCJA, recognized impacts in future periods could be significantly different from our current estimates. Such uncertainty may also result in increased scrutiny from, or disagreements with, tax authorities.

The enacted tax legislation included, among other new provisions, a reduction in the corporate tax rate, new limitations on the deductibility of net interest, a tax on Global Intangible Low-Taxed Income ("GILTI"), and the Base Erosion and Anti-Abuse Tax ("BEAT"). With respect to GILTI, we are experiencing relatively high effective tax rates on our foreign source earnings because of the limitation on foreign tax credits on income already subject to tax rates higher than the U.S. rate. The provision continues to be subject to additional regulatory guidance and possible legislative changes, which make predicting its impact on our tax rate difficult. In addition, the interaction of GILTI with the interest expense limitations may negatively impact our effective tax rate. In addition, due to potential revisions to regulations issued by the U.S. Treasury, or other legal or regulatory changes, it cannot be certain that we will not be subject to the BEAT. The BEAT levies a significant tax on cross border payments to related group companies. While we operate in a manner that currently limits our exposure to BEAT, uncertainty about the financial impact on us of this new tax remains and there can be no assurance that we will not be subject to material amounts of BEAT in the future.

## Our results of operations could be adversely affected by macroeconomic conditions, political events and market conditions.

Macroeconomic conditions, political events and other market conditions around the world affect our clients' businesses and the markets they serve. These conditions may reduce demand for our services or depress pricing for those services, which could have a material adverse effect on our results of operations. Changes in macroeconomic and political conditions could also shift demand to services for which we do not have a competitive advantage, and this could negatively affect the amount of business that we are able to obtain.

The United Kingdom's pending exit from the European Union, referred to as "Brexit," continues to create political and economic uncertainty, particularly in the United Kingdom and the European Union. The uncertainty surrounding the implementation and effect of Brexit may cause increased economic volatility, affecting our operations and business. The effects of Brexit will depend on any agreements the U.K. makes to retain access to European Union markets either during a transitional period or more permanently. The measures could potentially disrupt the markets we serve and may cause us to lose clients and colleagues. In addition, Brexit could lead to legal uncertainty and potentially divergent national laws and regulations as the U.K. determines which European Union laws to replace or replicate. These developments may have a material adverse effect on global economic conditions and the stability of financial markets, both in the U.K. and globally. Any of these factors could affect the demand for our services. Furthermore, currency exchange rates in GBP and the euro with respect to each other and the U.S. dollar have already been adversely affected by these developments. Should this foreign exchange volatility continue, it could cause volatility in our quarterly financial results.

In addition, any changes in U.S. trade policy could trigger retaliatory actions by affected countries, resulting in "trade wars," which could affect volume of economic activity in the United States, including demand for our services.

Our investments, including our minority investments in other companies as well as our cash investments and those held in a fiduciary capacity, are subject to general credit, liquidity, counterparty, foreign exchange, market and interest rate risks. These risks may be exacerbated by global macroeconomic conditions, market volatility and regulatory, financial and other difficulties affecting the companies in which we have invested or that may be faced by financial institution counterparties. During times of stress in the banking industry, counterparty risk can quickly escalate, potentially resulting in substantial trading and investment losses for corporate and other investors. In addition, we may incur investment losses as a result of unusual and unpredictable market developments, and we may continue to experience reduced investment earnings if the yields on investments deemed to be low risk remain at or near their current low levels. If the banking system or the fixed income, interest rate, credit or equity markets deteriorate, the

value and liquidity of our investments could be adversely affected. Finally, the value of the Company's assets held in other jurisdictions, including cash holdings, may decline due to foreign exchange fluctuations.

#### If we are unable to collect our receivables, our results of operations and cash flows could be adversely affected.

Our business depends on our ability to obtain payment from our clients of the amounts they owe us for the work we perform. As of December 31, 2018, our receivables for our commissions and fees were approximately \$4.0 billion, or approximately one-quarter of our total annual revenues, and portions of our receivables are increasingly concentrated in certain businesses and geographies.

Macroeconomic or political conditions could result in financial difficulties for our clients, which could cause clients to delay payments to us, request modifications to their payment arrangements that could increase our receivables balance or default on their payment obligations to us.

#### We may not be able to obtain sufficient financing on favorable terms.

The maintenance and growth of our business, the payment of dividends and our ability to make share repurchases rely on our access to capital, which depends in large part on cash flow generated by our business and the availability of equity and debt financing. Certain of our businesses such as GC Securities, a division of MMC Securities, LLC and MMC Securities (Europe) Limited also rely on financings by us to fund their underwriting of debt and equity capital raising offerings by their clients. There can be no assurance that our operations will generate sufficient positive cash flow to finance all of our capital needs or that we will be able to obtain equity or debt financing on favorable terms. In addition, our ability to obtain financing will depend in part upon prevailing conditions in credit and capital markets, which are beyond our control.

### Our defined benefit pension plan obligations could cause the Company's financial position, earnings and cash flows to fluctuate.

Our defined benefit pension obligations and the assets set aside to fund those obligations are sensitive to certain changes in the financial markets. Any such changes may result in increased pension expense or additional cash payments to fund these plans.

The Company has significant defined benefit pension obligations to its current and former employees, totaling approximately \$14.5 billion, and related plan assets of approximately \$14.4 billion, at December 31, 2018 on a U.S. GAAP basis. The Company's policy for funding its defined benefit pension plans is to contribute amounts at least sufficient to meet the funding requirements set forth by law. In the United States, contributions to these plans are based on ERISA guidelines. Outside the United States, contributions are generally based on statutory requirements and local funding practices, which may differ from measurements under U.S. GAAP. In the U.K., for example, the assumptions used to determine pension contributions are the result of legally-prescribed negotiations between the Company and the plans' trustee. Currently, the use of these assumptions results in a lower funded status than determined under U.S. GAAP and may result in contributions irrespective of the U.S. GAAP funded status.

The financial calculations relating to our defined benefit pension plans are complex. Pension plan assets could decrease as the result of poor future asset performance. Also, pension plan liabilities, periodic pension expense and future funding amounts could increase as a result of a decline in the interest rates we use to discount our pension liabilities, longer lifespans than those reflected in our mortality assumptions, changes in investment markets that result in lower expected returns on assets, actual investment return that is less than the expected return on assets, adverse changes in laws or regulations and other variables.

While we have taken steps to mitigate the impact of pension volatility on our earnings and cash funding requirements, these strategies may not be successful. Accordingly, given the magnitude of our worldwide pension plans, variations in or reassessment of the preceding or other factors or potential miscalculations relating to our defined benefit pension plans could cause significant fluctuation from year to year in our earnings and cash flow, as well as our pension plan assets, liabilities and equity, and may result in increased levels of contributions to our pension plans.

## Our significant non-U.S. operations expose us to exchange rate fluctuations and various risks that could impact our business.

Approximately 52% of our business is located outside of the United States. We are subject to exchange rate movement because we must translate the financial results of our foreign subsidiaries into U.S. dollars and also because some of our subsidiaries receive revenue other than in their functional currencies. Exchange rate movements may change over time, and they could have a material adverse impact on our financial results and cash flows reported in U.S. dollars. Our U.S. operations earn revenue and incur expenses primarily in U.S. dollars. In certain jurisdictions, however, while Risk and Insurance Services operations generate revenue in a number of different currencies, expenses are almost entirely incurred in local currency. Due to fluctuations in foreign exchange rates, we are subject to economic exposure as well as currency translation exposure on the net operating results of our operations. Because the non-U.S. based revenue that is exposed to foreign exchange fluctuations is approximately 52% of total revenue, exchange rate movement can have a significant impact on our business, financial condition, results of operations and cash flow. For additional discussion, see "Market Risk and Credit Risk-Foreign Currency Risk" in Part II, Item 7A ("Quantitative and Qualitative Disclosures about Market Risk") of this report.

The purchase price of the JLT transaction is denominated in GBP. To hedge the risk of appreciation in GBP, we entered into a deal contingent foreign exchange contract ("FX Contract"), which is discussed in Note 11 to the consolidated financial statements. For each 1% increase or decrease in the GBP/U.S. dollar exchange rate, the fair value of the FX Contract will increase (dollar weakens) or decrease (dollar strengthens) by approximately \$70 million. As of December 31, 2018, the GBP had depreciated 3.4% since we entered into the FX Contract in September 2018. Furthermore, and as noted above, the unknown impacts of Brexit may expose us to additional exchange rate fluctuations in GBP. We expect to record fair value gains or losses, which may be significant, through the consolidated statement of income until the closing of the JLT Transaction.

### We may not be able to receive dividends or other distributions in needed amounts from our subsidiaries.

The Company is organized as a legal entity separate and distinct from our operating subsidiaries. Because we do not have significant operations of our own, we are dependent upon dividends and other payments from our operating subsidiaries to meet our obligations for paying principal and interest on outstanding debt obligations, paying dividends to stockholders, repurchasing our common stock under our share repurchase program and paying corporate expenses. In the event our operating subsidiaries are unable to pay sufficient dividends and make other payments to the Company, we may not be able to service our debt, pay dividends on or repurchase our common stock or meet our other obligations.

Further, the Company derives a significant portion of its revenue and operating profit from operating subsidiaries located outside the United States. Funds from the current year's earnings of the Company's non-U.S. operating subsidiaries are regularly repatriated to the United States. A number of factors could arise that could limit our ability to repatriate funds or could make repatriation cost-prohibitive, including, but not limited to, the imposition of currency controls and other government restrictions on repatriation in the jurisdictions in which our subsidiaries operate, fluctuations in foreign exchange rates and the imposition of withholding and other taxes on such payments.

In the event we are unable to generate or repatriate cash from our operating subsidiaries, our overall liquidity could deteriorate and our ability to finance our obligations, including to pay dividends on or repurchase our common stock, could be adversely affected.

#### Our quarterly revenues and profitability may fluctuate significantly.

Quarterly variations in revenues and operating results may occur due to several factors. These include:

- the number of client engagements during a quarter;
- the possibility that clients may decide to delay or terminate a current or anticipated project as a result of factors unrelated to our work product or progress;
- fluctuations in hiring and utilization rates and clients' ability to terminate engagements without penalty;

- the impact of changes in accounting standards or in our accounting estimates or assumptions, including from the adoption of the revenue recognition, pension or lease accounting standards;
- the impact of fair value changes in the FX Contract for the JLT Transaction;
- the impact on us or our clients of changes in legislation, regulation and legal guidance or interpretations in the jurisdictions in which we operate, including with respect to the TCJA;
- seasonality due to the impact of regulatory deadlines, policy renewals and other timing factors to which our clients are subject;
- · the success of our acquisitions or investments;
- macroeconomic factors such as changes in foreign exchange rates, interest rates and global securities markets, particularly in the
  case of Mercer, where fees in its investments business and certain other business lines are derived from the value of assets
  under management or administration; and
- general economic conditions, including factors beyond our control affecting economic conditions such as severe weather or other catastrophic events, since results of operations are directly affected by the levels of business activity of our clients, which in turn are affected by the level of economic activity in the industries and markets that they serve.

A significant portion of our total operating expenses is relatively fixed in the short term. Therefore, a variation in the number of client assignments or in the timing of the initiation or the completion of client assignments can cause significant variations in quarterly operating results for these businesses

#### Credit rating downgrades would increase our financing costs and could subject us to operational risk.

Currently, the Company's senior debt is rated A- by S&P and Baa1 by Moody's. The ratings from both S&P and Moody's currently carry a Negative outlook.

If we need to raise capital in the future (for example, in order to fund maturing debt obligations or finance acquisitions or other initiatives), credit rating downgrades would increase our financing costs, and could limit our access to financing sources. Further, a downgrade to a rating below investment-grade could result in greater operational risks through increased operating costs and increased competitive pressures.

#### We have debt outstanding that could adversely affect our financial flexibility.

We have incurred significant debt in order to finance the JLT Transaction. As of December 31, 2018, we had total consolidated debt outstanding of approximately \$5.8 billion. In January 2019, we issued \$5 billion aggregate amount of senior notes to finance, in part, the JLT Transaction. We expect to incur additional debt before the closing of the JLT Transaction in order to finance the remaining purchase price.

The level of debt outstanding could adversely affect our financial flexibility by reducing our ability to use cash from operations for other purposes, including working capital, dividends to shareholders, share repurchases, acquisitions, capital expenditures and general corporate purposes. In addition, we are subject to risks that, at the time any of our outstanding debt matures, we will not be able to retire or refinance the debt on terms that are acceptable to us. We also face the risk of a credit rating downgrade if we do not retire or refinance the debt to levels acceptable to the credit rating agencies in a timely manner.

#### **Global Operations**

## We are exposed to multiple risks associated with the global nature of our operations.

We conduct business globally. In 2018, approximately 52% of the Company's total revenue was generated from operations outside the United States, and over one-half of our employees were located outside the United States. We expect to expand our non-U.S. operations further. In particular, the JLT Transaction will significantly expand our non-U.S. operations in jurisdictions such as the U.K., Asia, South America and Australia upon close.

The geographic breadth of our activities (and the activities of JLT upon the consummation of the JLT Transaction) subjects us to significant legal, economic, operational, market, compliance and reputational risks. These include, among others, risks relating to:

- · economic and political conditions in the countries in which we operate;
- · client concentration in certain high-growth countries in which we operate;
- · the length of payment cycles and potential difficulties in collecting accounts receivable;
- unexpected increases in taxes or changes in U.S. or foreign tax laws, rulings, policies or related legal and regulatory
  interpretations, including recent international initiatives to require multinational enterprises, like ours, to report profitability on a
  country-by-country basis, which could increase scrutiny by, or cause disagreements with, foreign tax authorities;
- potential transfer pricing-related tax exposures that may result from the flow of funds among our subsidiaries and affiliates in the various jurisdictions in which we operate;
- withholding or other taxes that foreign governments may impose on the payment of dividends or other remittances to us from our non-U.S. subsidiaries;
- potential conflicts of interest that may arise as we expand the scope of our businesses and our client base;
- international hostilities, international trade disputes, terrorist activities, natural disasters and infrastructure disruptions;
- · local investment or other financial restrictions that foreign governments may impose;
- potential lawsuits, investigations, market studies, reviews or other activity by foreign regulatory or law enforcement authorities or legislatively appointed commissions, which may result in potential modifications to our businesses, related private litigation or increased scrutiny from U.S. or other regulators;
- potential costs and difficulties in complying with a wide variety of foreign laws and regulations (including tax systems) administered by foreign government agencies, some of which may conflict with U.S. or other sources of law;
- potential costs and difficulties in complying, or monitoring compliance, with foreign and U.S. laws and regulations that are applicable to our operations abroad, including trade sanctions laws relating to countries such as Cuba, Iran, Russia, Sudan and Syria and anti-corruption laws such as the U.S. Foreign Corrupt Practices Act and the U.K. Bribery Act 2010;
- limitations or restrictions that foreign or U.S. governments and regulators may impose on the products or services we sell, the methods by which we sell our products and services and the manner in which and the amounts we are compensated;
- limitations that foreign governments may impose on the conversion of currency or the payment of dividends or other remittances
  to us from our non-U.S. subsidiaries;
- · engaging and relying on third parties to perform services on behalf of the Company; and
- · potential difficulties in monitoring employees in geographically dispersed locations.

#### RISKS RELATING TO OUR RISK AND INSURANCE SERVICES SEGMENT

Our Risk and Insurance Services segment, conducted through Marsh and Guy Carpenter, represented 55% of the Company's total revenue in 2018. Our business in this segment is subject to particular risks.

#### Results in our Risk and Insurance Services segment may be adversely affected by a general decline in economic activity.

Demand for many types of insurance and reinsurance generally rises or falls as economic growth expands or slows. This dynamic affects the level of commissions and fees generated by Marsh and Guy Carpenter. To the extent our clients become adversely affected by declining business conditions, they may choose to limit their purchases of insurance and reinsurance coverage, as applicable, which would inhibit our ability to generate commission revenue and other revenue based on premiums placed by us. Also, the insurance they seek to obtain through us may be impacted by changes in their assets, property values, sales or number of employees, which may reduce our commission revenue, and they may decide not to purchase our risk advisory or other services, which would inhibit our ability to generate fee revenue. Moreover, insolvencies and combinations associated with an economic downturn, especially insolvencies and combinations in the insurance industry, could adversely affect our brokerage business through the loss of clients or by limiting our ability to place insurance and reinsurance business, as well as our revenues from insurers. Guy Carpenter is especially susceptible to this risk given the limited number of insurance company clients and reinsurers in the marketplace.

### Volatility or declines in premiums and other market trends may significantly impede our ability to grow revenues and profitability.

A significant portion of our Risk and Insurance Services revenue consists of commissions paid to us out of the premiums that insurers and reinsurers charge our clients for coverage. We do not determine the insurance premiums on which our commissions are generally based. Our revenues and profitability are subject to change to the extent that premium rates fluctuate or trend in a particular direction. The potential for changes in premium rates is significant, due to the normal cycles of pricing in the commercial insurance and reinsurance markets.

As traditional insurance companies continue to rely on non-affiliated brokers or agents to generate premium, those insurance companies may seek to reduce their expenses by lowering their commission rates. The reduction of these commission rates, along with general volatility or declines in premiums, may significantly affect our revenue and profitability. Because we do not determine the timing or extent of premium pricing changes, it is difficult to accurately forecast our commission revenues, including whether they will significantly decline. As a result, we may have to adjust our plans for future acquisitions, capital expenditures, dividend payments, loan repayments and other expenditures to account for unexpected changes in revenues, and any decreases in premium rates may adversely affect the results of our operations.

In addition to movements in premium rates, our ability to generate premium-based commission revenue may be challenged by disintermediation and the growing availability of alternative methods for clients to meet their risk-protection needs. This trend includes a greater willingness on the part of corporations to self-insure, the use of captive insurers, and the presence of capital markets-based solutions for traditional insurance and reinsurance needs. Further, the profitability of our Risk and Insurances Services segment depends in part on our ability to be compensated for the analytical services and other advice that we provide, including the consulting and analytics services that we provide to insurers. If we are unable to achieve and maintain adequate billing rates for all of our services, our margins and profitability could decline.

Adverse legal developments and future regulations concerning how intermediaries are compensated by insurers or clients, as well as allegations of anti-competitive behavior or conflicts of interest more broadly, could have a material adverse effect on Marsh's business, results of operations and financial condition.

The ways in which insurance intermediaries are compensated receive scrutiny from regulators in part because of the potential for anti-competitive behavior and conflicts of interest. The vast majority of the compensation that Marsh receives is in the form of retail fees and commissions that are paid by the client or paid from premium that is paid by the client. The amount of other compensation that we receive from

insurance companies, separate from retail fees and commissions, has increased in the last several years, both on an underlying basis and through acquisition. This other compensation includes payment for (i) consulting and analytics services provided to insurers; (ii) administrative and other services provided to insurers (including services relating to the administration and management of quota shares, lineslips, panels and other facilities); and (iii) contingent commissions (paid by insurers based on factors such as volume or profitability of Marsh's placements). These other revenue streams present potential regulatory, litigation and reputational risks that may arise from alleged anti-competitive behavior or conflicts of interest, and future changes in the regulatory environment may impact our ability to collect such revenue. Adverse regulatory, legal or other developments could have a material adverse effect on our business and expose the Company to negative publicity and reputational harm.

#### RISKS RELATING TO OUR CONSULTING SEGMENT

Our Consulting segment, conducted through Mercer and Oliver Wyman Group, represented 45% of our total revenue in 2018. Our businesses in this segment are subject to particular risks.

Mercer's Investment Management and Related Services (IMS) business is subject to a number of risks, including risks related to third-party investment managers, operational risk, conflicts of interest, asset performance and regulatory compliance, that, if realized, could result in significant damage to our business.

Mercer's IMS business provides clients with investment consulting and investment management (also referred to as "delegated solutions" or "fiduciary management") services. In the investment consulting business, clients make and implement their own investment decisions based upon advice provided by Mercer. In its delegated solutions business, Mercer implements the client's investment policy by engaging and overseeing third-party asset managers who determine which investments to buy and sell. To effect implementation of a client's investment policy, Mercer may utilize its "manager of managers" investment funds.

Mercer's IMS business is subject to a number of risks, including risks related to third-parties, our operations, conflicts of interest, asset performance and regulatory compliance and scrutiny, which could arise in connection with these offerings. For example, Mercer's due diligence on an asset manager may fail to uncover material deficiencies or fraud that could result in investment losses to a client. There is a risk that Mercer will fail to properly implement a client's investment policy, which could cause an incorrect or untimely allocation of client assets among asset managers or strategies. Mercer may also be perceived as recommending certain asset managers to clients, or offering delegated solutions to an investment consulting client, solely to enhance its own compensation. Asset classes may perform poorly, or asset managers may underperform their benchmarks, due to poor market performance, a downturn in the global equity markets, negligence or other reasons, resulting in poor returns or loss of client capital. These risks, if realized, could result in significant liability and damage our business.

Revenues for the services provided by our Consulting segment may decline for various reasons, including as a result of changes in economic conditions, the value of equity, debt and other asset markets, our clients' or an industry's financial condition or government regulation or an accelerated trend away from actively managed investments to passively managed investments.

Global economic conditions may negatively impact businesses and financial institutions. Many of our clients, including financial institutions, corporations, government entities and pension plans, have reduced expenses, including amounts spent on consulting services, and used internal resources instead of consultants during difficult economic periods. The evolving needs and financial circumstances of our clients may reduce demand for our consulting services and could adversely affect our revenues and profitability. If the economy or markets in which we operate experience weakness or deteriorate, our business, financial condition and results of operations could be materially and adversely affected.

In addition, some of Mercer's IMS business generate fees based upon the value of the clients' assets under management or advisement. Changes in the value of equity, debt, currency, real estate, commodities or other asset classes could cause the value of assets under management or advisement, and the fees received by Mercer, to decline. Such changes could also cause clients to withdraw funds from Mercer's IMS business in favor of other investment service providers. In either case, our business, financial condition and results of operations could be materially and adversely affected. Mercer's IMS business also could be adversely affected by an accelerated shift away from actively managed

investments to passively managed investments with associated lower fees. Further, revenue received by Mercer as investment manager to the majority of the Mercer-managed investment funds is reported in accordance with U.S. GAAP on a gross basis rather than a net basis, with sub-advisor fees reflected as an expense. Therefore the reported revenue for these offerings does not fully reflect the amount of net revenue ultimately attributable to Mercer.

Demand for many of Mercer's benefits services is affected by government regulation and tax laws, rulings, policies and interpretations, which drive our clients' needs for benefits-related services. Significant changes in government regulations affecting the value, use or delivery of benefits and human resources programs, including changes in regulations relating to health and welfare plans, defined contribution plans or defined benefit plans. may adversely affect the demand for or profitability of Mercer's services.

#### Factors affecting defined benefit pension plans and the services we provide relating to those plans could adversely affect Mercer.

Mercer currently provides corporate trustees, multi-employer and public clients with actuarial, consulting and administration services relating to defined benefit pension plans. The nature of our work is complex. A number of Mercer's clients have frozen or curtailed their defined benefit plans and have moved to defined contribution plans resulting in reduced revenue for Mercer's retirement business. These developments and a continued or accelerated rate of decline in revenues for our defined benefit pension plans business could adversely affect Mercer's business and operating results. In addition, our actuarial services involve numerous assumptions and estimates regarding future events, including interest rates used to discount future liabilities, estimated rates of return for a plan's assets, healthcare cost trends, salary projections and participants' life expectancies. Our consulting services involve the drafting and interpretation of trust deeds and other complex documentation governing pension plans. Our administration services include calculating benefits within complicated pension plan structures. Clients dissatisfied with our services have brought, and may bring, significant claims against us, particularly in the United States and the United Kingdom.

# The profitability of our Consulting segment may decline if we are unable to achieve or maintain adequate utilization and pricing rates for our consultants.

The profitability of our Consulting businesses depends in part on ensuring that our consultants maintain adequate utilization rates (i.e., the percentage of our consultants' working hours devoted to billable activities). Our utilization rates are affected by a number of factors, including:

- our ability to transition consultants promptly from completed projects to new assignments, and to engage newly-hired consultants quickly in revenue-generating activities;
- our ability to continually secure new business engagements, particularly because a portion of our work is project-based rather than
  recurring in nature;
- our ability to forecast demand for our services and thereby maintain appropriate headcount in each of our geographies and workforces;
- · our ability to manage attrition;
- unanticipated changes in the scope of client engagements;
- · the potential for conflicts of interest that might require us to decline client engagements that we otherwise would have accepted;
- · our need to devote time and resources to sales, training, professional development and other non-billable activities;
- the potential disruptive impact of acquisitions and dispositions; and
- general economic conditions.

If the utilization rate for our consulting professionals declines, our profit margin and profitability could decline.

In addition, the profitability of our Consulting businesses depends in part on the prices we are able to charge for our services. The prices we charge are affected by a number of factors, including:

- · clients' perception of our ability to add value through our services;
- market demand for the services we provide;

- our ability to develop new services and the introduction of new services by competitors;
- · the pricing policies of our competitors;
- the extent to which our clients develop in-house or other capabilities to perform the services that they might otherwise purchase from us; and
- · general economic conditions.

If we are unable to achieve and maintain adequate billing rates for our services, our profit margin and profitability could decline.

#### Item 1B. Unresolved Staff Comments.

There are no unresolved comments to be reported pursuant to Item 1B.

#### Item 2. Properties.

Marsh & McLennan Companies maintains its corporate headquarters in New York City. We also maintain other offices around the world, primarily in leased space. In certain circumstances we may have space that we sublet to third parties, depending upon our needs in particular locations.

Marsh & McLennan Companies and certain of its subsidiaries own, directly and indirectly through special purpose subsidiaries, a 58% condominium interest covering approximately 900,000 square feet of office space in a 44 story condominium in New York City. This real estate serves as the Company's headquarters and is occupied primarily by the Company and its subsidiaries for general corporate use. The condominium interests are financed by a 30-year mortgage loan that is non-recourse to the Company unless the Company (i) is downgraded below B (stable outlook) by S&P or Fitch or B2 (stable outlook) by Moody's and such downgrade is continuing or (ii) an event of default under the mortgage loan has occurred. The mortgage is secured by a first priority assignment of leases and rents, including the leases which the Company and certain of its subsidiaries entered into with their affiliated special purpose subsidiaries which own the mortgaged condominium interests. The net rent due under those leases in effect services the mortgage debt.

### Item 3. Legal Proceedings.

In April 2017, the Financial Conduct Authority in the United Kingdom (the "FCA") commenced a civil competition investigation into the aviation insurance and reinsurance sector. In connection with that investigation, the FCA carried out an on-site inspection at the London office of Marsh Limited, our Marsh and Guy Carpenter operating subsidiary in the United Kingdom. The FCA indicated that it had reasonable grounds for suspecting that Marsh Limited and other participants in the market have been sharing competitively sensitive information within the aviation insurance and reinsurance broking sector.

In October 2017, the Company received a notice that the Directorate-General for Competition of the European Commission had commenced a civil investigation of a number of insurance brokers, including Marsh, regarding "the exchange of commercially sensitive information between competitors in relation to aviation and aerospace insurance and reinsurance broking products and services in the European Economic Area ("EEA"), as well as possible coordination between competitors." In light of the action taken by the European Commission, the FCA informed Marsh Limited at the same time that it has discontinued its investigation under U.K. competition law. In May 2018, the FCA advised that it would not be taking any further action with Marsh Limited in connection with this matter.

In July 2017, the Directorate-General for Competition of the European Commission together with the Irish Competition and Consumer Protection Commission conducted on-site inspections at the offices of Marsh and other industry participants in Dublin in connection with an investigation regarding the "possible participation in anticompetitive agreements and/or concerted practices contrary to [E.U. competition law] in the market for commercial motor insurance in the Republic of Ireland."

In January 2019, the Company received a notice that the Administrative Council for Economic Defense anti-trust agency in Brazil had commenced an administrative proceeding against a number of insurance brokers, including Marsh, and insurers "to investigate an alleged sharing of sensitive commercial and competitive confidential information" in the aviation insurance and reinsurance sector.

We are cooperating with these investigations and are conducting our own reviews. At this time, we are unable to predict their likely timing, outcome or ultimate impact. There can be no assurance that the ultimate resolution of these or any related matters will not have a material adverse effect on our consolidated results of operations, financial condition or cash flows.

We and our subsidiaries are also party to a variety of other legal, administrative, regulatory and government proceedings, claims and inquiries arising in the normal course of business. Additional information regarding certain legal proceedings and related matters is set forth in Note 14 to the consolidated financial statements appearing under Part II, Item 8 ("Financial Statements and Supplementary Data") of this report.

## Item 4. Mine Safety Disclosures.

Not applicable.

#### **PART II**

## Item 5. Market for the Company's Common Equity, Related Stockholder Matters and Issuer Purchases of Equity Securities.

For information regarding dividends paid and the number of holders of the Company's common stock, see the table entitled "Selected Quarterly Financial Data and Supplemental Information (Unaudited)" below on the last page of Part II, Item 8 ("Financial Statements and Other Supplementary Data") of this report.

The Company's common stock is listed on the New York, Chicago and London Stock Exchanges. The following table indicates the high and low prices (NYSE composite quotations) of the Company's common stock during 2018 and 2017 and each quarterly period thereof:

	2018 Stock Price R	ange	2017 Stock Price R	ange
	High	Low	High	Low
First Quarter	\$85.94	\$78.69	\$75.52	\$66.75
Second Quarter	\$84.52	\$78.60	\$80.47	\$71.79
Third Quarter	\$87.89	\$81.38	\$84.32	\$76.68
Fourth Quarter	\$89.59	\$74.30	\$86.54	\$80.12
Full Year	\$89.59	\$74.30	\$86.54	\$66.75

On February 20, 2019, the closing price of the Company's common stock on the NYSE was \$91.95.

During 2018, the Company repurchased 8.2 million shares of its common stock for total consideration of \$675 million. In November 2016, the Board of Directors of the Company authorized the Company to repurchase up to \$2.5 billion in shares of the Company's common stock, which superseded any prior authorizations. As of December 31, 2018, the Company remained authorized to repurchase up to approximately \$866 million in shares of its common stock. There is no time limit on the authorization.

Period	Total Number of Shares (or Units) Purchased	Average Price Paid per Share (or Unit)	Total Number of Shares (or Units) Purchased as Part of Publicly Announced Plans or Programs	Maximum Number (or Approximate Dollar Value) of Shares (or Units) that May Yet Be Purchased Under the Plans or Programs
Oct 1-31, 2018	— \$	_	_	\$ 865,752,978
Nov 1-30, 2018	— \$	_	_	\$ 865,752,978
Dec 1-31, 2018	<del></del>	_	_	\$ 865,752,978
Total	— \$	<del>_</del>	_	\$ 865,752,978

#### Item 6. Selected Financial Data.

# Marsh & McLennan Companies, Inc. and Subsidiaries FIVE-YEAR STATISTICAL SUMMARY OF OPERATIONS

For the Years Ended December 31, (In millions, except per share figures)	2018	2017	2016	2015	2014
Revenue	\$ 14,950	\$ 14,024	\$ 13,211	\$ 12,893	\$ 12,951
Expense:					
Compensation and Benefits	8,605	8,085	7,694	7,569	7,692
Other Operating Expenses	3,584	3,284	3,086	3,140	3,135
Operating Expenses	12,189	11,369	10,780	10,709	10,827
Operating Income (a)	2,761	2,655	2,431	2,184	2,124
Other net benefits credits (b)	215	201	233	235	177
Interest Income	11	9	5	13	21
Interest Expense	(290)	(237)	(189)	(163)	(165)
Cost of Extinguishment of Debt	_	_	_	_	(137)
Investment (loss) income	(12)	15	_	38	37
Acquisition Related Derivative Contracts	(441)	_	_	_	_
Income Before Income Taxes	2,244	2,643	2,480	2,307	2,057
Income Tax Expense (c)	574	1,133	685	671	586
Income From Continuing Operations	1,670	1,510	1,795	1,636	1,471
Discontinued Operations, Net of Tax	_	2	_	_	26
Net Income Before Non-Controlling Interests	1,670	1,512	1,795	1,636	1,497
Less: Net Income Attributable to Non-Controlling Interests	20	20	27	37	32
Net Income Attributable to the Company	\$ 1,650	\$ 1,492	\$ 1,768	\$ 1,599	\$ 1,465
Basic Net Income Per Share Information:					
Income From Continuing Operations	\$ 3.26	\$ 2.91	\$ 3.41	\$ 3.01	\$ 2.64
Income From Discontinued Operations	_	_	_	_	0.05
Net Income Attributable to the Company	\$ 3.26	\$ 2.91	\$ 3.41	\$ 3.01	\$ 2.69
Average Number of Shares Outstanding	506	513	519	531	545
Diluted Income Per Share Information:					
Income From Continuing Operations	\$ 3.23	\$ 2.87	\$ 3.38	\$ 2.98	\$ 2.61
Discontinued Operations, Net of Tax Per Share	_	_	_	_	0.04
Net Income Attributable to the Company	\$ 3.23	\$ 2.87	\$ 3.38	\$ 2.98	\$ 2.65
Average Number of Shares Outstanding	511	519	524	536	553
Dividends Paid Per Share	\$ 1.58	\$ 1.43	\$ 1.30	\$ 1.18	\$ 1.06
Return on Average Equity	22%	22%	27%	23%	19%
Year-End Financial Position:					
Working capital	\$ 1,010	\$ 1,300	\$ 802	\$ 1,336	\$ 1,856
Total assets	\$ 21,578	\$ 20,429	\$ 18,190	\$ 18,216	\$ 17,793
Long-term debt	\$ 5,510	\$ 5,225	\$ 4,495	\$ 4,402	\$ 3,368
Total equity	\$ 7,584	\$ 7,442	\$ 6,272	\$ 6,602	\$ 7,133
Total shares outstanding (net of treasury shares)	504	509	514	522	540
Other Information:					
Number of employees	66,000	64,000	60,000	60,000	57,000
Stock price ranges—					
U.S. exchanges — High	\$ 89.59	\$ 86.54	\$ 69.77	\$ 59.99	\$ 58.74
— Low	\$ 74.30	\$ 66.75	\$ 50.81	\$ 50.90	\$ 44.25

<sup>(</sup>a) Includes the impact of net restructuring costs of \$161 million, \$40 million, \$44 million, \$28 million, and \$12 million in 2018, 2017, 2016, 2015 and 2014, respectively.

See "Management's Discussion and Analysis of Financial Condition and Results of Operations", appearing under Part II, Item 7 of this report, for discussion of significant items affecting the results of operations in 2018, 2017 and 2016.

<sup>(</sup>b) Reflects the adoption of ASC 715 on January 1, 2018, which changed the presentation of net periodic pension cost and net periodic postretirement cost. The Company has restated prior years for this new presentation.

<sup>(</sup>c) Income tax expense in 2017 includes a \$460 million provisional charge related to the enactment of U.S. tax reform.

#### Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations

#### General

Marsh & McLennan Companies, Inc. and its consolidated subsidiaries (the "Company") is a global professional services firm offering clients advice and solutions in risk, strategy and people. Its businesses include: Marsh, the insurance broker, intermediary and risk advisor; Guy Carpenter, the risk and reinsurance specialist; Mercer, the provider of HR and Investment related financial advice and services; and Oliver Wyman Group, the management, economic and brand consultancy. With over 65,000 colleagues worldwide and annual revenue of \$15 billion, the Company provides analysis, advice and transactional capabilities to clients in more than 130 countries.

The Company conducts business through two segments:

- Risk and Insurance Services includes risk management activities (risk advice, risk transfer and risk control and mitigation solutions) as well as insurance and reinsurance broking and services. The Company conducts business in this segment through Marsh and Guy Carpenter.
- Consulting includes health, wealth and career consulting services and products, and specialized management, economic and brand consulting services. The Company conducts business in this segment through Mercer and Oliver Wyman Group.

We describe the primary sources of revenue and categories of expense for each segment below, in our discussion of segment financial results. A reconciliation of segment operating income to total operating income is included in Note 17 to the consolidated financial statements included in Part II, Item 8 in this report. The accounting policies used for each segment are the same as those used for the consolidated financial statements.

### **Pending Acquisition**

On September 18, 2018, the Company announced that it had reached agreement on the terms of a recommended cash acquisition of Jardine Lloyd Thompson Group plc ("JLT"), a public company organized under the laws of England and Wales (the "JLT Transaction"). Under the terms of the Transaction, JLT shareholders will receive £19.15 in cash for each JLT share, which values JLT's existing issued and to be issued share capital at approximately £4.3 billion (or approximately \$5.6 billion based on an exchange rate of U.S. \$1.31:£1). The Company intends to implement the Transaction by way of a scheme of arrangement under Part 26 of the United Kingdom Companies Act 2006, as amended. In addition, the Company expects to repay existing JLT debt in connection with the closing of the Transaction.

The Transaction was approved by JLT shareholders on November 7, 2018. The Transaction remains subject to conditions and certain further terms, including, among others, (i) the sanction of the Transaction by the High Court of Justice in England and Wales, (ii) completion of the transaction no later than December 31, 2019 and (iii) the receipt of certain antitrust, regulatory and other approvals. Subject to the satisfaction or waiver of all relevant conditions, the Transaction is expected to be completed in the spring of 2019.

This Management's Discussion & Analysis ("MD&A") contains forward-looking statements as that term is defined in the Private Securities Litigation Reform Act of 1995. See "Information Concerning Forward-Looking Statements" at the outset of this report.

#### **Consolidated Results of Operations**

For the Years Ended December 31,			
(In millions, except per share figures)	2018	2017	2016
Revenue	\$ 14,950	\$ 14,024	\$ 13,211
Expense			_
Compensation and Benefits	8,605	8,085	7,694
Other Operating Expenses	3,584	3,284	3,086
Operating Expenses	12,189	11,369	10,780
Operating Income	\$ 2,761	\$ 2,655	\$ 2,431
Income from Continuing Operations	\$ 1,670	\$ 1,510	\$ 1,795
Discontinued Operations, Net of Tax	_	2	_
Net Income Before Non-Controlling Interests	\$ 1,670	\$ 1,512	\$ 1,795
Net Income Attributable to the Company	\$ 1,650	\$ 1,492	\$ 1,768
Basic net income per share			
<ul> <li>Continuing operations</li> </ul>	\$ 3.26	\$ 2.91	\$ 3.41
<ul> <li>Net income attributable to the Company</li> </ul>	\$ 3.26	\$ 2.91	\$ 3.41
Diluted net income per share			_
<ul> <li>Continuing operations</li> </ul>	\$ 3.23	\$ 2.87	\$ 3.38
<ul> <li>Net income attributable to the Company</li> </ul>	\$ 3.23	\$ 2.87	\$ 3.38
Average number of shares outstanding			
– Basic	506	513	519
- Diluted	511	519	524
Shares outstanding at December 31,	504	509	514

In 2018, the Company's results of operations and earnings per share were significantly impacted by the following items:

- In connection with the Transaction, to hedge the risk of appreciation of the GBP-denominated purchase price relative to the U.S. dollar, in September 2018, the Company entered into a deal contingent foreign exchange contract (the "FX Contract") to, solely upon consummation of the Transaction, purchase £5.2 billion and sell a corresponding amount of U.S. dollars at a contracted exchange rate. The FX Contract is discussed in Note 11 to the consolidated financial statements. An unrealized loss of \$325 million related to the fair value changes to this derivative has been recognized in the consolidated statement of income for the year ended December 31, 2018, largely due to the depreciation of the GBP from September 2018. The Company expects to record fair value gains and losses, which may be significant, through its income statement until the completion of the Transaction.
- To secure funding for the Transaction, the Company entered into a bridge loan agreement with aggregate commitments of £5.2 billion in September 2018. The Company paid approximately \$35 million of customary upfront fees related to the bridge loan, which are being amortized as interest expense based on the period of time the facility is expected to be in effect. The Company recorded interest expense of approximately \$30 million for the year ended December 31, 2018 related to the amortization of the bridge loan fees. The commitments under the bridge loan agreement were reduced by £3.79 billion as a result of a \$5 billion aggregate amount of senior notes issued in January 2019.
- In addition, to hedge the economic risk of increases in interest rates prior to its issuance of senior notes in January 2019, in the fourth quarter of 2018, the Company entered into Treasury lock contracts related to \$2 billion of the expected debt. These economic hedges were not designated as accounting hedges. The Company recorded an unrealized loss of \$116 million related to the changes in the fair value of these derivatives in the consolidated statement of income for the year

ended December 31, 2018. In January 2019, upon issuance of the \$5 billion of senior notes, the Company settled the Treasury lock contracts and made a payment to its counter party for \$122 million. An additional charge of \$6 million will be recorded in the first quarter of 2019 related to the settlement of the Treasury lock derivatives.

- The Company owns approximately 33% of the common stock of Alexander Forbes ("AF"), a South African company listed on the Johannesburg Stock Exchange, which it purchased in 2014 for 7.50 South African Rand per share. Based on the duration of time and the extent to which the shares traded below their cost, the Company concluded the decline in value of the investment was other than temporary and recorded a charge of \$83 million in the 2018 consolidated statement of income.
- Pension Settlement charge The Defined Benefit Pension Plans in the U.K. allow participants an option for the payment of a lump sum distribution from plan assets before retirement in full satisfaction of the retirement benefits due to the participant as well as any survivor's benefit. The Company's policy under applicable U.S. GAAP is to treat these lump sum payments as a partial settlement of the plan liability if they exceed the sum of service cost plus interest cost components of net period pension cost of a plan for the year ("settlement thresholds"). The amount of lump sum payments through December 31, 2018 exceeded the settlement thresholds in two of the U.K. plans. The Company recorded non-cash settlement charges, primarily related to these plans of \$42 million in December 2018 in the consolidated statement of income, of which approximately 90% impacted Risk and Insurance Services.

In 2017, the Company's results of operations and earnings per share were impacted, in part, by two significant items:

- U.S. tax reform On December 22, 2017, the U.S. enacted comprehensive tax legislation commonly referred to as the Tax Cuts and Jobs Act (the "TCJA"). The TCJA provides for a reduction in the U.S. corporate tax rate to 21% and the creation of a territorial tax system. The TCJA also changes the deductibility of certain expenses, primarily executive officers compensation. An aggregate charge of \$460 million was recorded in the fourth quarter of 2017 as a result of the enactment of the TCJA. The TCJA provides for a transition to the territorial system through a deemed repatriation tax (the "transition tax") on undistributed earnings of non-U.S. subsidiaries. The Company recorded a provisional charge of \$240 million in the fourth quarter of 2017 as an estimate of U.S. transition taxes and ancillary effects, including state taxes and foreign withholding taxes related to the change in permanent reinvestment status with respect to our pre-2018 foreign earnings. This transition tax is payable over eight years. The reduction of the U.S. corporate tax rate from 35% to 21%, reduces the value of the U.S. deferred tax assets and liabilities, accordingly, a net charge of \$220 million was also recorded in the fourth quarter of 2017 in the consolidated statement of income.
- Pension Settlement charge Similar to the item discussed above, the Company recorded a non-cash settlement charge, primarily related to its U.K. plans of \$54 million in 2017, of which approximately 85% impacted Risk and Insurance Services.

Consolidated operating income increased 4%, to \$2.8 billion in 2018 compared with \$2.7 billion in 2017, reflecting the impact of 7% increases in both revenue and operating expenses. Income before income taxes decreased 15%, to \$2.2 billion. This decrease primarily resulted from the significant items discussed above (the "significant items"), which reduced income before taxes by 21%, and more than offset the increase in operating income. Net income attributable to the Company ("after tax income") increased 11%, of which 9% was due to the year-over-year increase in operating earnings and investment income related to the change in fair value of equity securities, partly offset by the significant items discussed above and higher interest expense. The year over year impact of the significant items was 2% of the increase.

Diluted earnings per share increased 13% to \$3.23 in 2018 compared with \$2.87 in 2017. This increase primarily resulted from an increase in operating earnings and investment income related to the change in fair value of equity securities, partly offset by the significant items discussed above and higher interest expense, as well as a 2% decrease in the average number of shares outstanding. The negative earnings per share impact of the significant items was in 2018, largely offset by the year-over-year impact of the

\$460 million charge in 2017 related to U.S. tax reform, which together resulted in a net increase of approximately \$.06 in diluted earnings per share

Average diluted shares outstanding for 2018 decreased to 511 million, compared with 519 million during 2017. Share repurchases during the year were partly offset by the shares issued related to vesting of share awards and the exercise of employee stock options.

Risk and Insurance Services operating income increased \$133 million, or 8%, in 2018 compared with 2017. Revenue increased 8%, reflecting a 5% increase on an underlying basis and a 3% increase from acquisitions. Expense increased 8% or 5% on an underlying basis in 2018 compared with 2017.

Consulting operating income decreased \$11 million, or 1%, to \$1.1 billion in 2018 compared with 2017, reflecting the combined impact of a 5% growth in revenue and 6% in expense.

Consolidated operating income increased 9%, to \$2.7 billion, in 2017 compared to \$2.4 billion in 2016, reflecting the combined impact of a 6% increase in revenue and a 5% increase in expenses as compared to the prior year.

Risk and Insurance Services operating income increased \$150 million, or 9% in 2017 compared with 2016. Revenue increased 7% reflecting a 3% increase on an underlying basis and a 4% increase from acquisitions. Expense increased 6% compared with 2016.

Consulting operating income increased \$72 million, or 7%, to \$1.1 billion in 2017 compared with 2016, reflecting the combined impact of 5% growth for both revenue and expense.

#### **Consolidated Revenue and Expense**

Revenue - Components of Change

The Company conducts business in many countries. As a result, foreign exchange rate movements may impact period-to-period comparisons of revenue. Similarly, certain other items such as the revenue impact of acquisitions and dispositions, including transfers among businesses, and the impact of the new revenue standard, ASC 606, may impact period-to-period comparisons of revenue. Underlying revenue measures the change in revenue from one period to another by isolating these impacts. The impact of foreign currency exchange fluctuations, acquisitions and dispositions, including transfers among businesses, on the Company's operating revenues by segment was as follows:

		Ended nber 31,			Components of Revo	enue Change*	
(In millions, except percentage figures)	2018	2017	% Change GAAP Revenue	Currency Impact	Acquisitions/ Dispositions/ Other Impact	Revenue Standard Impact	Underlying Revenue
Risk and Insurance Services							
Marsh	\$ 6,877	\$ 6,404	7%	_	3%	_	4%
Guy Carpenter	1,286	1,187	8%	1%	_	_	7%
Subtotal	8,163	7,591	8%	1%	3%	_	5%
Fiduciary Interest Income	65	39					
Total Risk and Insurance Services	8,228	7,630	8%	_	3%	_	5%
Consulting							
Mercer	4,732	4,528	5%	1%	1%	_	3%
Oliver Wyman Group	2,047	1,916	7%	1%	_	_	5%
Total Consulting	6,779	6,444	5%	1%	1%	_	3%
Corporate/Eliminations	(57)	(50)					
Total Revenue	\$ 14,950	\$ 14,024	7%	1%	2%	_	4%

<sup>\*</sup> Components of revenue change may not add due to rounding.

The following table provides more detailed revenue information for certain of the components presented above:

	Year Decen	 			Components of Rev	enue Change*	
(In millions, except percentage figures)	2018	2017	% Change GAAP Revenue	Currency Impact	Acquisitions/ Dispositions/ Other	Revenue Standard Impact	Underlying Revenue
Marsh:							_
EMEA	\$ 2,132	\$ 2,033	5 %	3 %	1 %	_	_
Asia Pacific	683	645	6 %	_	_	_	5 %
Latin America	400	404	(1)%	(10)%	3 %	_	6 %
Total International	3,215	3,082	4 %	1 %	1 %	_	2 %
U.S./Canada	3,662	3,322	10 %	_	5 %	_	6 %
Total Marsh	\$ 6,877	\$ 6,404	7 %	_	3 %	_	4 %
Mercer:							
Defined Benefit Consulting & Administration	\$ 1,279	\$ 1,381	(7)%	1 %	(5)%	_	(4)%
Investment Management & Related Services	906	767	18 %	_	9 %	_	9 %
Total Wealth	2,185	2,148	2 %	1 %	_	_	1 %
Health	1,735	1,648	5 %	_	1 %	_	4 %
Career	812	732	11 %	_	6 %	_	5 %
Total Mercer	\$ 4,732	\$ 4,528	5 %	1 %	1 %	_	3 %

Underlying revenue measures the change in revenue using consistent currency exchange rates, excluding the impact of certain items that affect comparability such as: acquisitions, dispositions, transfers among businesses, changes in estimate methodology and the impact of the new revenue standard.

<sup>\*</sup> Components of revenue change may not add due to rounding.

	Year Decen			Со	mponents of Revenue Ch	ange*
(In millions, except percentage figures)	2017	2016	% Change GAAP Revenue	Currency Impact	Acquisitions/ Dispositions/ Other	Underlying Revenue
Risk and Insurance Services						
Marsh	\$ 6,404	\$ 5,976	7%	_	5%	3%
Guy Carpenter	1,187	1,141	4%	_	_	4%
Subtotal	7,591	7,117	7%	_	4%	3%
Fiduciary Interest Income	39	26				
Total Risk and Insurance Services	7,630	7,143	7%	_	4%	3%
Consulting						
Mercer	4,528	4,323	5%	_	2%	2%
Oliver Wyman Group	1,916	1,789	7%	_	_	7%
Total Consulting	6,444	6,112	5%	_	2%	4%
Corporate/Eliminations	(50)	(44)				
Total Revenue	\$ 14,024	\$ 13,211	6%	_	3%	3%

<sup>\*</sup> Components of revenue change may not add due to rounding.

The following table provides more detailed revenue information for certain of the components presented above:

	Year Decer			Coi	mponents of Revenue Chai	nge*
(In millions, except percentage figures)	2017	2016	% Change GAAP Revenue	Currency Impact	Acquisitions/ Dispositions/ Other	Underlying Revenue
Marsh:						
EMEA	\$ 2,033	\$ 1,924	6 %	(1)%	7 %	_
Asia Pacific	645	635	2 %	_	(5)%	6 %
Latin America	404	374	8 %	(3)%	3 %	7 %
Total International	3,082	2,933	5 %	(1)%	4 %	2 %
U.S. / Canada	3,322	3,043	9 %	_	6 %	4 %
Total Marsh	\$ 6,404	\$ 5,976	7 %	_	5 %	3 %
Mercer:						
Defined Benefit Consulting & Administration	\$ 1,381	\$ 1,447	(5)%	(1)%	(2)%	(2)%
Investment Management & Related Services	767	606	26 %	1 %	15 %	10 %
Total Wealth	2,148	2,053	5 %	_	3 %	2 %
Health	1,648	1,588	4 %	_	2 %	2 %
Career	732	682	7 %	_	2 %	5 %
Total Mercer	\$ 4,528	\$ 4,323	5 %	_	2 %	2 %

Underlying revenue measures the change in revenue using consistent currency exchange rates, excluding the impact of certain items that affect comparability such as: acquisitions, dispositions, transfers among businesses and changes in estimate methodology.

Effective January 1, 2017, Mercer established a Wealth business reflecting a unified client strategy for its former Retirement and Investment business. The 2016 information in the chart above has been conformed to the current presentation.

#### Revenue

Consolidated revenue was \$15 billion in 2018, an increase of 7%, or 4% on an underlying basis. Revenue in the Risk and Insurance Services segment increased 8% in 2018 compared with 2017, or 5% on an underlying basis. Revenue increased 4% and 7% on an underlying basis at Marsh and Guy Carpenter, respectively, as compared with 2017. The Consulting segment's revenue increased 5% compared with 2017, or 3% on an underlying basis. Revenue increased 3% and 5% on an underlying basis at Mercer and Oliver Wyman Group, respectively, as compared with 2017. As discussed in more detail in Note 2 of the consolidated financial statements, the adoption of the new revenue standard shifted income among quarters from historical patterns, but did not have a significant year-over-year impact on annual revenue.

Consolidated revenue was \$14 billion in 2017, an increase of 6%, or 3% on an underlying basis. Revenue in the Risk and Insurance Services segment increased 7% in 2017 compared with 2016, or 3% on an underlying basis. Revenue increased 3% and 4% on an underlying basis at Marsh and Guy Carpenter, respectively, as compared with 2016. The Consulting segment's revenue increased 5% compared with 2016, or 4% on an underlying basis. Revenue increased 2% and 7% on an underlying basis at Mercer and Oliver Wyman Group, respectively, as compared with 2016.

## Operating Expense

Consolidated operating expenses increased 7% in 2018 compared with 2017, or 5% on an underlying basis. The increase in underlying expenses is primarily due to higher base salaries, incentive compensation, asset based fees, recoverable expenses and costs associated with the acquisition of JLT as well as the impact of severance and consulting costs related to the Marsh simplification initiative and Mercer business restructure discussed below under "Risk and Insurance Services" and "Consulting", respectively.

Consolidated operating expenses increased 5% in 2017 compared with 2016, or 2% on an underlying basis. The increase in underlying expenses was primarily due to higher base salaries and incentive compensation costs, partly offset by lower costs related to liabilities for errors and omissions.

<sup>\*</sup> Components of revenue change may not add due to rounding.

#### Risk and Insurance Services

In the Risk and Insurance Services segment, the Company's subsidiaries and other affiliated entities act as brokers, agents or consultants for insureds, insurance underwriters and other brokers in the areas of risk management, insurance broking and insurance program management services, primarily under the name of Marsh; and engage in reinsurance broking, catastrophe and financial modeling services and related advisory functions, primarily under the name of Guy Carpenter.

Marsh and Guy Carpenter are compensated for brokerage and consulting services primarily through fees paid by clients or commissions paid out of premiums charged by insurance and reinsurance companies. Commission rates vary in amount depending upon the type of insurance or reinsurance coverage provided, the particular insurer or reinsurer, the capacity in which the broker acts and negotiates with clients. Revenues can be affected by premium rate levels in the insurance/reinsurance markets, the amount of risk retained by insurance and reinsurance clients themselves and by the value of the risks that have been insured since commission-based compensation is frequently related to the premiums paid by insureds/reinsureds. In many cases, fee compensation may be negotiated in advance, based on the type of risk, coverage required and service provided by the Company and ultimately, the extent of the risk placed into the insurance market or retained by the client. The trends and comparisons of revenue from one period to the next can be affected by changes in premium rate levels, fluctuations in client risk retention and increases or decreases in the value of risks that have been insured, as well as new and lost business, and the volume of business from new and existing clients.

Marsh also receives other compensation from insurance companies, separate from retail fees and commissions. This compensation includes, among other things, payment for consulting and analytics services provided to insurers; administrative and other services provided to or on behalf of insurers (including services relating to the administration and management of quota share, panels and other facilities in which insurers participate); and contingent commissions. Marsh and Guy Carpenter also receive interest income on certain funds (such as premiums and claims proceeds) held in a fiduciary capacity for others. The investment of fiduciary funds is regulated by state and other insurance authorities. These regulations typically require segregation of fiduciary funds and limit the types of investments that may be made with them. Interest income from these investments varies depending on the amount of funds invested and applicable interest rates, both of which vary from time to time. For presentation purposes, fiduciary interest is segregated from the other revenues of Marsh and Guy Carpenter and separately presented within the segment, as shown in the revenue by segments charts presented earlier in this MD&A.

The results of operations for the Risk and Insurance Services segment are presented below:

(In millions of dollars, except percentages)	<b>2018</b> 2017			2016
Revenue	\$ 8,228	\$	7,630	\$ 7,143
Compensation and Benefits	4,485		4,171	3,904
Other Operating Expenses	1,879		1,728	1,658
Operating Expenses	6,364		5,899	5,562
Operating Income	\$ 1,864	\$	1,731	\$ 1,581
Operating Income Margin	22.7%		22.7%	22.1%

#### Revenue

Revenue in the Risk and Insurance Services segment increased 8% in 2018 compared with 2017, due to a 5% growth in underlying revenue and 3% growth from acquisitions. The adoption of the new revenue standard shifted revenue among quarters from historical patterns, but did not have a significant year-over-year impact on annual revenue.

In Marsh, revenue increased 7% to \$6.9 billion in 2018 as compared with 2017, reflecting a 4% increase on an underlying basis and a 3% increase from acquisitions. U.S./Canada had underlying revenue growth of 6%. International operations increased 2% on an underlying basis, reflecting increases of 5% in Asia Pacific and 6% in Latin America, while growth in EMEA was flat.

Guy Carpenter's revenue increased 8% to \$1.3 billion in 2018 compared with 2017, or 7% on an underlying basis.

Fiduciary interest income was \$65 million in 2018 compared with \$39 million in 2017 due to the combined effect of higher average invested funds and higher interest rates.

The Risk and Insurance Services segment completed twelve acquisitions during 2018. Information regarding those acquisitions is included in Note 4 to the consolidated financial statements.

Revenue in the Risk and Insurance Services segment increased 7% in 2017 compared with 2016, due to a 3% growth in underlying revenue and 4% growth from acquisitions.

In Marsh, revenue increased 7% to \$6.4 billion in 2017 as compared with 2016, reflecting a 3% increase on an underlying basis and a 5% increase from acquisitions. U.S./Canada had underlying revenue growth of 4%. International operations increased 2% on an underlying basis, reflecting increases of 6% in Asia Pacific and 7% in Latin America, while growth in EMEA was flat.

Guy Carpenter's revenue increased 4% to \$1.2 billion in 2017 compared with 2016, for both a reported and underlying basis.

Fiduciary interest income was \$39 million in 2017 compared with \$26 million in 2016 due to the combined effect of higher average invested funds and higher interest rates.

The Risk and Insurance Services segment completed seven acquisitions during 2017.

#### Expense

Expense in the Risk and Insurance Services segment increased 8% in 2018 compared with 2017, reflecting increases of 5% on an underlying basis, 2% from acquisitions and 1% from the impact of foreign currency.

During 2018, Marsh initiated a program to simplify the organization through reduced management layers and more common structures across regions and businesses to more closely align with its more formalized segmentation strategy across large risk management, middle market corporate, and small commercial & personal segments. These efforts are expected to create increased efficiencies and additional capacity for reinvestment in people and technology. The Company incurred restructuring severance and consulting costs related to this initiative of \$96 million in 2018.

During the year, restructuring and related charges increased underlying expenses by approximately 2%. The remaining increase in underlying expense was primarily due to higher base salaries and incentive compensation.

Expense in the Risk and Insurance Services segment increased 6% in 2017 compared with 2016, reflecting a 2% increase on an underlying basis and a 5% increase from acquisitions. The underlying expense increase is primarily due to higher base salaries and incentive compensation costs, partly offset by lower costs related to liabilities for errors and omissions.

#### Consulting

The Company conducts business in its Consulting segment through two main business groups, Mercer and Oliver Wyman Group. Mercer provides consulting expertise, advice, services and solutions in the areas of health, wealth and career. Oliver Wyman Group provides specialized management, economic and brand consulting services.

Effective January 1, 2017, Mercer merged its investment and retirement businesses into a newly-created wealth business. We believe this combination better aligns Mercer's investment management capabilities globally.

The major component of revenue in the Consulting business is fees paid by clients for advice and services. Mercer, principally through its health line of business, also earns revenue in the form of commissions received from insurance companies for the placement of group (and occasionally individual) insurance contracts, primarily life, health and accident coverages. Revenue for Mercer's investment management business and certain of Mercer's defined contribution administration services consists principally of fees based on assets under management or administration.

Revenue in the Consulting segment is affected by, among other things, global economic conditions, including changes in clients' particular industries and markets. Revenue is also affected by competition due to the introduction of new products and services, broad trends in employee demographics, including levels of employment, the effect of government policies and regulations, and fluctuations in interest and foreign exchange rates. Revenues from the provision of investment management services and retirement trust and administrative services are significantly affected by the level of assets under management or administration, which is impacted by securities market performance.

For the investment management business, revenues from the majority of funds are included on a gross basis in accordance with U.S. GAAP and include reimbursable expenses incurred by professional staff and sub-advisory fees, and the related expenses are included in other operating expenses.

The results of operations for the Consulting segment are presented below:

(In millions of dollars, except percentages)	2018	2017	2016		
Revenue	\$ 6,779	\$ 6,444	\$	6,112	
Compensation and Benefits	3,760	3,573		3,450	
Other Operating Expenses	1,920	1,761		1,624	
Operating Expenses	5,680	5,334		5,074	
Operating Income	\$ 1,099	\$ 1,110	\$	1,038	
Operating Income Margin	16.2%	17.2%		17.0%	

#### Revenue

Consulting revenue in 2018 increased 5% compared with 2017, reflecting a 3% increase on an underlying basis, 1% growth from acquisitions and a 1% increase from the impact of foreign currency translation. The adoption of the new revenue recognition guidance did not have a significant impact on the timing of revenue recognition or the year-over-year amount of annual revenue in the segment in 2018.

Mercer's revenue in 2018 increased 5% over the prior year to \$4.7 billion, or 3% on an underlying basis. Mercer's year over year revenue comparison also reflects an increases of 1% from acquisitions and 1% from the impact of foreign currency translation. The underlying revenue growth reflects an increase in Career of 5%, Health of 4% and Wealth of 1%. Within Wealth, Investment Management & Related Services increased 9% while Defined Benefit Consulting & Administration decreased 4% compared with the prior year. Oliver Wyman Group's revenue increased 7% in 2018 compared with 2017, or 5% on an underlying basis.

The Consulting segment completed eight acquisitions during 2018. Information regarding these acquisitions is included in Note 4 to the consolidated financial statements.

Consulting revenue in 2017 increased 5% compared with 2016, reflecting a 4% increase on an underlying basis and 2% growth from acquisitions. Mercer's revenue increased 5% to \$4.5 billion over the prior year, or 2% on an underlying basis. Mercer's year over year revenue growth also reflects an increase of 2% from acquisitions. The underlying revenue growth reflects an increase in Career of 5%, Health of 2% and Wealth of 2%. Within Wealth, Investment Management & Related Services increased 10% while Defined Benefit Consulting & Administration decreased 2% compared with the prior year. Oliver Wyman Group's revenue increased 7% in 2017 compared with 2016, on both a reported and underlying basis.

The Consulting segment completed three acquisitions during 2017.

## Expense

Consulting expense in 2018 increased 6% compared with 2017, reflecting increases of 5% on an underlying basis, 1% from the impact of acquisitions and 1% from the impact of foreign currency translation. The increase in underlying expense reflects higher base salaries, asset based fees and recoverable expenses and costs incurred of \$51 million associated with a business restructuring at Mercer initiated in the fourth quarter of 2018. The Company expects to incur additional costs of approximately \$20-30 million in 2019 related to this initiative.

Consulting expense in 2017 increased 5% compared with 2016, reflecting an increase of 3% on an underlying basis and a 3% increase from the impact of acquisitions. The increase in underlying expense

reflects higher base salaries, asset based fees and outside service costs, partly offset by lower severance costs and lower costs related to liabilities for errors and omissions.

#### Corporate and Other

Corporate expense in 2018 was \$202 million compared with \$186 million in 2017. The increase in expense is primarily due to costs related to the pending acquisition of JLT.

Corporate expense in 2017 was \$186 million compared with \$188 million in 2016. The decrease in expense is primarily due to lower consulting, occupancy and general insurance costs.

## Other Corporate Items

#### Interest

Interest income earned on corporate funds amounted to \$11 million in 2018 compared with \$9 million in 2017. Interest expense in 2018 was \$290 million compared with \$237 million in 2017. The increase in interest expense was primarily due to higher average debt outstanding in 2018 and bridge loan financing fees related to the pending acquisition of JLT.

Interest income earned on corporate funds amounted to \$9 million in 2017 compared with \$5 million in 2016. The decrease is due to the combined effects of a lower level of invested funds and lower interest rates. Interest expense in 2017 was \$237 million compared with \$189 million in 2016 due to higher average outstanding debt in 2017.

#### **Investment Income**

The caption "Investment income" in the consolidated statements of income comprises realized and unrealized gains and losses from investments. It includes, when applicable, other-than-temporary declines in the value of securities, mark-to-market increases/decreases in equity investments with readily determinable fair values and equity method gains or losses on its investments in private equity funds. The Company's investments may include direct investments in insurance, consulting or other strategically linked companies and investments in private equity funds.

As discussed in Note 1 to the consolidated financial statements, effective January 1, 2018, the Company prospectively adopted a new accounting standard that requires equity investments (except those accounted for under the equity method of accounting or those that result in consolidation of the investee) to be measured at fair value with changes in fair value recognized in net income. The Company holds certain equity investments that under legacy U.S. GAAP were previously treated as available for sale securities, whereby the mark-to-market change was recorded to other comprehensive income in its consolidated balance sheet. The Company recorded a cumulative-effect adjustment increase to retained earnings as of the beginning of the period of adoption of \$14 million, reflecting the reclassification of cumulative unrealized gains, net of tax, as of December 31, 2017 from other comprehensive income to retained earnings. Therefore, prior periods have not been restated.

The Company recorded a net investment loss of \$12 million in 2018. The net investment loss reflects the impact of an \$83 million charge recorded in 2018 related to an other than temporary decline in the Company's equity method investment in Alexander Forbes (see Note 10 to the consolidated financial statements) partly offset by investment gains of \$54 million related to mark-to-market changes in equity securities (discussed above) and \$17 million related to investments in private equity funds and other investments. The Company recorded net investment income of \$15 million in 2017 compared to less than \$1 million in 2016. The increase in 2017 versus 2016 was primarily due to a gain on the sale of an investment and higher equity method gains related to the Company's investments in private equity funds.

### **Income Taxes**

On December 22, 2017, the U.S. tax legislation commonly known as the "Tax Cuts and Jobs Act" (the "TCJA") significantly changed the U.S. Internal Revenue Code of 1986, as amended. The TCJA generally became effective on January 1, 2018. The TCJA provided for a reduction in the U.S. corporate tax rate to 21% and the creation of a new method of taxing non-U.S. based operations. The TCJA also changed the deductibility of certain expenses, primarily executive officers' compensation and interest. In the fourth quarter of 2017 the Company recorded a provisional charge of \$460 million related to the enactment of

the TCJA. As discussed in Note 7 to the consolidated financial statements, this provisional charge was adjusted in 2018.

The TCJA provided for a transition to a new method of taxing non-U.S. based operations via a transition tax on undistributed earnings of non-U.S. subsidiaries. The Company recorded a provisional charge of \$240 million in the fourth quarter of 2017 as an estimate of U.S. transition taxes and ancillary effects, including state taxes and foreign withholding taxes related to the change in permanent reinvestment status with respect to our pre-2018 foreign earnings. This transition tax is payable over eight years. The reduction of the U.S. corporate tax rate from 35% to 21% reduced the value of the U.S. deferred tax assets and liabilities; accordingly, a charge of \$220 million was recorded. Adjustments during 2018 to the provisional estimates of transition taxes and U.S. deferred tax assets and liabilities decreased income tax expense by \$5 million. These amounts are now final, and the Company does not expect further adjustments to the initial provisional charge.

The Company's consolidated effective tax rate was 25.6%, 42.9%, and 27.6% in 2018, 2017 and 2016, respectively. The rate in 2018 reflects ongoing impacts of the TCJA, primarily the reduced 21% U.S. statutory tax rate and certain tax planning benefits, largely offset by higher estimated costs from the new method of taxing non-U.S. based operations, greater disallowance of compensation and entertainment deductions, the effect of a charge related to the Company's investment in Alexander Forbes as discussed in Note 10 and a decrease in excess tax benefits related to share compensation primarily due to the lower U.S. tax rate. The rates in 2017 and 2016 reflect foreign operations taxed at rates below the 35% U.S. statutory tax rate, including the effect of repatriation. The tax rates in all periods reflect the impact of discrete tax matters, tax legislation, and nontaxable adjustments to contingent acquisition consideration.

The effective tax rate is sensitive to the geographic mix and repatriation of the Company's earnings, which may result in higher or lower tax rates. Thus, a shift in the mix of profits among jurisdictions can affect the effective tax rate. In 2018, pre-tax income in the U.K., Barbados, Canada, Australia, and Ireland accounted for approximately 60% of the Company's total non-U.S. pre-tax income, with effective rates in those countries of 26%, 1%, 28%, 27% and 10%, respectively.

The TCJA is expected to provide an ongoing benefit to our effective tax rate and U.S. cash tax liabilities due to the significantly lower U.S. statutory tax rate and the quasi-territorial system.

As a U.S. domiciled parent holding company, Marsh & McLennan Companies, Inc. is the issuer of essentially all of the Company's external indebtedness, and incurs the related interest expense in the U.S. Further, most senior executive and oversight functions are conducted in the U.S. and the associated costs are incurred primarily in the United States.

The mandatory taxation of accumulated undistributed foreign earnings through the transition tax substantially changed the economic considerations of continued permanent investment of those accumulated earnings, a key component of our global capital strategy. As a result of the transition tax, the Company anticipates repatriating most of the accumulated earnings that was previously intended to be permanently reinvested outside of the U.S. We continue to evaluate our global investment and repatriation strategy in light of expected relief from U.S. tax reform under the new quasi-territorial tax regime for future foreign earnings.

The effective tax rate may vary significantly from period to period for the foreseeable future. It is sensitive to the geographic mix of and repatriation of the Company's earnings, which may result in higher or lower effective tax rates. Losses in certain jurisdictions cannot be offset by earnings from other operations, and may require valuation allowances that affect the rate, depending on estimates of the realizability of associated deferred tax assets. The effective tax rate is also sensitive to changes in unrecognized tax benefits, including the impact of settled tax audits and expired statutes of limitation.

The realization of deferred tax assets depends on generating future taxable income during the periods in which the tax benefits are deductible or creditable. Tax liabilities are determined and assessed jurisdictionally by legal entity or filing group. Certain taxing jurisdictions allow or require combined or consolidated tax filings. The Company assessed the realizability of its deferred tax assets. The Company considered all available evidence, including the existence of a recent history of losses, placing particular weight on evidence that could be objectively verified. A valuation allowance was recorded to reduce deferred tax assets to the amount that the Company believes is more likely than not to be realized.

Changes in tax laws, rulings, policies or related legal and regulatory interpretations occur frequently and may also have significant favorable or adverse impacts on our effective tax rate.

## **Liquidity and Capital Resources**

The Company is organized as a legal entity separate and distinct from its operating subsidiaries. As the Company does not have significant operations of its own, the Company is dependent upon dividends and other payments from its operating subsidiaries to pay principal and interest on its outstanding debt obligations, pay dividends to stockholders, repurchase its shares and pay corporate expenses. The Company can also provide financial support to its operating subsidiaries for acquisitions, investments and certain parts of their business that require liquidity, such as the capital markets business of Guy Carpenter. Other sources of liquidity include borrowing facilities discussed below in financing cash flows.

The Company derives a significant portion of its revenue and operating profit from operating subsidiaries located outside of the United States. Funds from those operating subsidiaries are regularly repatriated to the United States out of annual earnings. At December 31, 2018, the Company had approximately \$917 million of cash and cash equivalents in its foreign operations, which includes \$168 million of operating funds required to be maintained for regulatory requirements or as collateral under certain captive insurance arrangements. The Company expects to continue its practice of repatriating available funds from its non-U.S. operating subsidiaries out of current annual earnings. Where appropriate, a portion of the current year earnings will continue to be permanently reinvested. With respect to repatriating 2017 and prior earnings, the Company has evaluated such factors as its short- and long-term capital needs, acquisition and borrowing strategies, and the availability of cash for repatriation for each of its subsidiaries. The Company has determined that, in general, its permanent reinvestment assertions, in light of the enactment of the Tax Cuts and Jobs Act, should allow the Company to repatriate previously taxed earnings from the deemed repatriations as cash becomes available.

During 2018, the Company recorded foreign currency translation adjustments which decreased net equity by \$529 million. Continued strengthening of the U.S. dollar against foreign currencies would further reduce the translated U.S. dollar value of the Company's net investments in its non-U.S. subsidiaries. as well as the translated U.S. dollar value of cash repatriations from those subsidiaries.

Cash on our consolidated balance sheets includes funds available for general corporate purposes. Funds held on behalf of clients in a fiduciary capacity are segregated and shown separately in the consolidated balance sheets as an offset to fiduciary liabilities. Fiduciary funds cannot be used for general corporate purposes, and should not be considered as a source of liquidity for the Company.

## **Operating Cash Flows**

The Company generated \$2.4 billion of cash from operations in 2018, compared with \$1.9 billion in 2017. These amounts reflect the net income of the Company during those periods, excluding gains or losses from investments, adjusted for non-cash charges and changes in working capital which relate primarily to the timing of payments of accrued liabilities or receipts of assets and pension contributions.

#### Pension-Related Items

#### Contributions

During 2018, the Company contributed \$30 million to its U.S. pension plans and \$82 million to non-U.S. pension plans compared to contributions of \$85 million to U.S. plans and \$229 million to non-U.S. plans in 2017.

In the United States, contributions to the tax-qualified defined benefit plans are based on ERISA guidelines and the Company generally expects to maintain a funded status of 80% or more of the liability determined under the ERISA guidelines. In 2018 the Company made \$30 million of contributions to its non-qualified plans. The Company expects to contribute approximately \$28 million to its U.S. pension plans in 2019.

The Company contributed \$21 million to the U.K. plans in 2018, including an expense allowance of approximately \$9 million. Based on the funding test carried out at November 1, 2018, the Company contributions to the U.K. plans in 2019 are expected to be approximately \$11 million, including the expense allowance.

Outside the United States, the Company has a large number of non-U.S. defined benefit pension plans, the largest of which are in the U.K., which comprise approximately 81% of non-U.S. plan assets at December 31, 2018. Contribution rates for non-U.S. plans are generally based on local funding practices and statutory requirements, which may differ significantly from measurements under U.S. GAAP. In the U.K., the assumptions used to determine pension contributions are the result of legally-prescribed negotiations between the Company and the plans' Trustee that typically occur every three years in conjunction with the actuarial valuation of the plans. Currently, this results in a lower funded status than under U.S. GAAP and may result in contributions irrespective of the U.S. GAAP funded status. In November 2016, the Company and the Trustee of the U.K. Defined Benefits Plans agreed to a funding deficit recovery plan for the U.K. defined benefit pension plans. The current agreement with the Trustee sets out the annual deficit contributions which would be due based on the deficit at December 31, 2015. The funding level is subject to reassessment, in most cases on November 1 of each year. If the funding level on November 1 is sufficient, no deficit funding contributions will be required in the following year, and the contribution amount will be deferred. The funding level was re-assessed on November 1, 2018 and no deficit funding contributions are required in 2019. The funding level will be re-assessed on November 1, 2019. As part of a long-term strategy, which depends on having greater influence over asset allocation and overall investment decisions, in November 2016 the Company renewed its agreement to support annual deficit contributions by the U.K. operating companies under certain circumstances, up to GBP 450 million over a seven-year period.

In the aggregate, the Company expects to contribute approximately \$65 million to its non-U.S. defined benefit plans in 2019, comprising approximately \$54 million to plans outside of the U.K. and \$11 million to the U.K. plans.

## Changes to Pension Plans

In March 2017, the Company modified its defined benefit pension plans in Canada to discontinue further benefit accruals for participants after December 31, 2017 and replaced them with a defined contribution arrangement. The Company also amended its post-retirement benefits plan in Canada so that individuals who retire after April 1, 2019 will not be eligible to participate, except in certain situations. The Company re-measured the assets and liabilities of the plans, based on assumptions and market conditions on the amendment date.

In October 2016, the Company modified its U.S. defined benefit pension plans to discontinue further benefit accruals for participants after December 31, 2016. At the same time, the Company amended its U.S. defined contribution retirement plans for most of its U.S. employees to add an automatic Company contribution equal to 4% of eligible base pay beginning on January 1, 2017. This new Company contribution, together with the Company's current matching contribution, provides eligible U.S. employees with the opportunity to receive a total contribution of up to 7% of eligible base pay. As required under GAAP, the defined benefit plans that were significantly impacted by the modification were re-measured in October 2016 using market data and assumptions as of the modification date. The net periodic pension expense recognized in 2016 reflects the weighted average costs of the December 31, 2015 measurement and the October 2016 re-measurement. In addition, the U.S. qualified plans were merged effective December 30, 2016, since no participants would be receiving benefit accruals after December 2016.

## Changes in Funded Status and Expense

The year-over-year change in the funded status of the Company's pension plans is impacted by the difference between actual and assumed results, particularly with regard to return on assets, and changes in the discount rate, as well as the amount of Company contributions, if any. Unrecognized actuarial losses were approximately \$1.9 billion and \$2.6 billion at December 31, 2018 for the U.S. plans and non-U.S. plans, respectively, compared with \$1.8 billion and \$2.6 billion at December 31, 2017. The increase in the U.S. was primarily due to a decrease in asset values partly offset by the impact of an increase in the discount rate used to measure plan liabilities. The actuarial loss related to the non-U.S. plans was unchanged as a decrease in the value of the plans' assets was offset by the impact of increases in the discount rate used to measure the plans' liabilities, the impact of the U.K. settlement in the fourth quarter of 2018 discussed above and by the impact of foreign exchange translation. In the past several years, the amount of unamortized losses has been significantly impacted, both positively and negatively, by actual asset performance and changes in discount rates. The discount rate used to measure plan liabilities

increased in both the U.S. and the U.K. (the Company's largest plans) in 2018. The discount rate used to measure plan liabilities decreased in 2017 and in 2016. The decreases in 2017 and 2016 followed an increase in 2015. An increase in the discount rate decreases the measured plan benefit obligation, resulting in actuarial gains, while a decrease in the discount rate increases the measured plan obligation, resulting in actuarial losses. During 2018, the Company's defined benefit pension plan assets had losses of 7.4% and 1.0% in the U.S. and U.K., respectively. During 2017, the Company's defined benefit pension plan assets had actual returns of 19.3% and 9.1% in the U.S. and U.K., respectively. During 2016, the Company's defined benefit pension plan assets had actual returns of 9.8% in the U.S. and 22.1% in the U.K.

Overall, based on the measurement at December 31, 2018, expenses related to the Company's defined benefit plans are expected to decrease in 2019 by approximately \$51 million compared to 2018, reflecting an increase in U.S. plans of \$8 million and a decrease in non-U.S. plans of approximately \$59 million, primarily in the U.K. The decrease in non-U.S. plans is primarily in the U.K., and reflects a lower charge for amortization of the net actuarial loss as well as the reduction in the 2018 net benefit credit by the \$42 million settlement charge discussed previously. The recognition of a similar charge in 2019 and the amount of such a charge, if any, is dependent upon whether participant lump sum elections reach or exceed the settlement threshold.

Prior to 2016, service and interest costs were estimated using a single weighted average discount rate derived from the yield curves used to measure the benefit obligations at the beginning of the period. In 2016, the Company changed the approach used to estimate the service and interest cost components of net periodic benefit cost for its significant non-U.S. plans. This change in approach was made to improve the correlation between the projected benefit cash flows and the corresponding yield curve spot rates and to provide a more precise measurement of service and interest costs. The change did not impact the measurement of the plans' total projected benefit obligation. The Company accounted for this change as a change in estimate, that was applied prospectively beginning in 2016 and resulted in pension expense being approximately \$45 million lower in 2016 than if the prior approach had been used.

The Company's accounting policies for its defined benefit pension plans, including the selection of and sensitivity to assumptions, are discussed below under Management's Discussion of Critical Accounting Policies. For additional information regarding the Company's retirement plans, see Note 8 to the consolidated financial statements.

## **Financing Cash Flows**

Net cash used for financing activities was \$1.3 billion in 2018 compared with \$1.0 billion used in 2017.

#### Debt

The Company increased outstanding debt by approximately \$340 million in 2018 and \$680 million in 2017.

The Company has established a short-term debt financing program of up to \$1.5 billion through the issuance of commercial paper. The proceeds from the issuance of commercial paper are used for general corporate purposes. The Company had no commercial paper outstanding at December 31 2018

In October 2018, the Company repaid \$250 million of maturing senior notes.

In March 2018, the Company issued \$600 million of 4.20% senior notes due 2048. The Company used the net proceeds for general corporate purposes.

In January 2017, the Company issued \$500 million of 2.75% senior notes due in 2022 and \$500 million of 4.35% senior notes due in 2047. The Company used the net proceeds for general corporate purposes, which included the repayment of a \$250 million debt maturity in April 2017.

In March 2016, the Company issued \$350 million of 3.30% seven-year senior notes. The Company used the net proceeds from this issuance for general corporate purposes.

## Subsequent Event

As part of the Company's planned financing for the proposed acquisition of JLT, the Company issued \$5 billion aggregate amount of senior notes in January 2019. The various tranches consisted of \$700 million of 3.50% senior notes due 2020, \$1 billion of 3.875% senior notes due 2024, \$1.25 billion of 4.375%

senior notes due 2029, \$500 million of 4.75% senior notes due 2039, \$1.25 billion of 4.90% senior notes due 2049 and \$300 million floating rate senior notes due 2021. The Company intends to use the net proceeds to fund, in part, the pending acquisition of JLT, including the payment of related fees and expenses, and to repay certain JLT indebtedness.

#### Credit Facilities

On September 18, 2018, the Company entered into a bridge loan agreement to secure funding for the proposed JLT transaction. The Company paid approximately \$35 million of customary upfront fees related to the bridge loan, which are being amortized as interest expense based on the period of time the facility is expected to be in effect (including any loans outstanding). The bridge loan agreement is discussed in more detail in Note 13 of the consolidated financial statements.

In October 2018, the Company and certain of its foreign subsidiaries increased its multi-currency five-year unsecured revolving credit facility from \$1.5 billion to \$1.8 billion. The interest rate on this facility is based on LIBOR plus a fixed margin which varies with the Company's credit ratings. This facility expires in October 2023 and requires the Company to maintain certain coverage and leverage ratios which are tested quarterly. There were no borrowings outstanding under this facility at December 31, 2018.

The Company also maintains other credit facilities, guarantees and letters of credit with various banks, aggregating \$594 million at December 31, 2018 and \$624 million at December 31, 2017. There were no outstanding borrowings under these facilities at December 31, 2018 or December 31, 2017.

The Company's senior debt is currently rated A- by Standard & Poor's and Baa1 by Moody's. The Company's short-term debt is currently rated A-2 by Standard & Poor's and P-2 by Moody's. The Company carries a negative outlook from both firms.

#### Share Repurchases

During 2018, the Company repurchased 8.2 million shares of its common stock for total consideration of \$675 million at an average price per share of \$82.61. In November 2016, the Board of Directors authorized an increase in the Company's share repurchase program, which supersedes any prior authorization, allowing management to buy back up to \$2.5 billion of the Company's common stock. As of December 31, 2018, the Company remained authorized to purchase additional shares of its common stock up to a value of approximately \$866 million. There is no time limit on this authorization.

During 2017, the Company repurchased 11.5 million shares of its common stock for total consideration of \$900 million at an average price per share of \$77.93.

#### Dividends

The Company paid total dividends of \$807 million in 2018 (\$1.58 per share), \$740 million in 2017 (\$1.43 per share) and \$682 million in 2016 (\$1.30 per share).

## Contingent Payments Related To Acquisitions

During 2018, the Company paid \$91 million of contingent payments related to acquisitions made in prior years. These payments are split between financing and operating cash flows in the consolidated statements of cash flows. Payments of \$55 million related to the contingent consideration liability that was recorded on the date of acquisition are reflected as financing cash flows. Payments related to increases in the contingent consideration liability subsequent to the date of acquisition of \$36 million are reflected as operating cash flows. Remaining estimated future contingent consideration payments of \$183 million for acquisitions completed in 2018 and in prior years are included in accounts payable and accrued liabilities or other liabilities in the consolidated balance sheet at December 31, 2018. The Company paid deferred purchase consideration related to prior years' acquisitions of \$62 million, \$55 million and \$54 million in the years ended December 31, 2018, 2017 and 2016, respectively. Remaining deferred cash payments of approximately \$139 million are included in accounts payable and accrued liabilities or other liabilities in the consolidated balance sheet at December 31, 2018.

In 2017, the Company paid \$108 million of contingent payments related to acquisitions made in prior periods, of which \$81 million was reported as financing cash flows and \$27 million as operating cash flows. In 2016, the Company made \$86 million of contingent payments related to acquisitions made in prior periods, of which \$44 million was reported as financing cash flows and \$42 million as operating cash flows.

#### Derivatives

In connection with the JLT Transaction, to hedge the risk of appreciation of the GBP-denominated purchase price relative to the U.S. dollar, on September 20, 2018, the Company entered into the FX Contract to, solely upon consummation of the Transaction, purchase £5.2 billion and sell a corresponding amount of U.S dollars at a contracted exchange rate. The FX Contract is discussed in Note 11 to the consolidated financial statements. An unrealized loss of \$325 million related to the change in fair value of this derivative has been recognized in the consolidated statement of income for year ended December 31, 2018, primarily related to the depreciation of the GBP. The FX Contract does not qualify for hedge accounting treatment under applicable accounting guidance. The Company expects to record fair value gains and losses, which may be significant, through its income statement until the completion of the Transaction.

In connection with the JLT Transaction, to hedge the risk of increases in future interest rates prior to its issuance of senior notes, in the fourth quarter of 2018, the Company entered into Treasury locks related to \$2 billion of the expected debt. The fair value at December 31, 2018 is based on the published treasury rate plus forward premium as of December 31, 2018 compared to the all in rate at the inception of the contract. The contracts were not designated as an accounting hedge. The Company recorded an unrealized loss of \$116 million related to the change in the fair value of these derivatives in the consolidated statement of income for the twelve months ended December 31, 2018. In January 2019, upon issuance of the \$5 billion of senior notes, the Company settled the treasury lock derivatives and made a payment to its counter party for \$122 million. An additional charge of \$6 million will be recorded in the first quarter of 2019 related to the settlement of the Treasury lock derivatives.

#### **Investing Cash Flows**

Net cash used for investing activities amounted to \$1.1 billion in 2018 compared with \$956 million used for investing activities in 2017.

The Company paid \$884 million and \$655 million, net of cash acquired, for acquisitions it made during 2018 and 2017, respectively.

The Company's additions to fixed assets and capitalized software, which amounted to \$314 million in 2018 and \$302 million in 2017, primarily relate to computer equipment purchases, the refurbishing and modernizing of office facilities and software development costs.

The Company has commitments for potential future investments of approximately \$43 million in four private equity funds that invest primarily in financial services companies.

## **Commitments and Obligations**

The following sets forth the Company's future contractual obligations by the types identified in the table below as of December 31, 2018:

		Payment due by Period										
Contractual Obligations (In millions of dollars)	_	Total		Within 1 Year		1-3 Years		4-5 Years		After 5 Years		
Current portion of long-term debt	\$	314	\$	314	\$	_	\$	_	\$	_		
Long-term debt		5,548		_		1,032		1,132		3,384		
Interest on long-term debt		2,473		224		414		330		1,505		
Net operating leases		2,071		329		574		447		721		
Service agreements		259		189		51		15		4		
Other long-term obligations		359		109		197		53		_		
Total	\$	11,024	\$	1,165	\$	2,268	\$	1,977	\$	5,614		

The chart does not include the senior notes issued in January 2019 discussed above. The above does not include the liability for unrecognized tax benefits of \$78 million as the Company is unable to reasonably predict the timing of settlement of these liabilities, other than approximately \$3 million that may become payable during 2019. The above does not include net pension liabilities of approximately \$1.8 billion because the timing and amount of ultimate payment of such liability is dependent upon future

events, including, but not limited to, future returns on plan assets and changes in the discount rate used to measure the liabilities. The above does not include the remaining transitional tax payments related to the TCJA of \$171 million. The above does not include expected payments related to the pending acquisition of JLT. The amounts of estimated future benefits payments to be made from pension plan assets are disclosed in Note 8 to the consolidated financial statements. In 2019, the Company expects to contribute approximately \$28 million and \$65 million to its U.S. and non-U.S. defined benefit pension plans, respectively.

## Management's Discussion of Critical Accounting Policies

The preparation of financial statements in conformity with accounting principles generally accepted in the United States ("GAAP") requires management to make estimates and judgments that affect reported amounts of assets, liabilities, revenue and expenses, and disclosure of contingent assets and liabilities. Management considers the policies discussed below to be critical to understanding the Company's financial statements because their application places the most significant demands on management's judgment, and requires management to make estimates about the effect of matters that are inherently uncertain. Actual results may differ from those estimates.

## Revenue Recognition

The adoption of the new revenue standard on January 1, 2018 has increased the significance of judgments and estimates management must make to apply the guidance. In particular, in the Risk and Insurance Services segment, judgments related to the amount of variable revenue consideration to ultimately be received on placement of quota share reinsurance treaties and contingent commission from insurers, which was previously recognized when the contingency was resolved, now requires significant judgments and estimates.

Under the new standard, certain costs to obtain or fulfill a contract that were previously expensed as incurred have been capitalized. The Company capitalizes the incremental costs to obtain contracts primarily related to commissions or sales bonus payments. These deferred costs are amortized over the expected life of the underlying customer relationships. The Company also capitalizes certain pre-placement costs that are considered fulfillment costs that are amortized at a point in time when the associated revenue is recognized.

Management also makes significant judgments and estimates to measure the progress toward completing performance obligations and realization rates for consideration related to contracts as well as potential performance-based fees in the Consulting segment.

See Note 2 to the consolidated financial statements for additional information.

## Legal and Other Loss Contingencies

The Company and its subsidiaries are subject to numerous claims, lawsuits and proceedings including claims for errors and omissions ("E&O"). GAAP requires that a liability be recorded when a loss is both probable and reasonably estimable. Significant management judgment is required to apply this guidance. The Company utilizes case level reviews by inside and outside counsel, an internal actuarial analysis by Oliver Wyman Group, a subsidiary of the Company, and other methods to estimate potential losses. The liability is reviewed quarterly and adjusted as developments warrant. In many cases, the Company has not recorded a liability, other than for legal fees to defend the claim, because we are unable, at the present time, to make a determination that a loss is both probable and reasonably estimable. Given the unpredictability of E&O claims and of litigation that could flow from them, it is possible that an adverse outcome in a particular matter could have a material adverse effect on the Company's businesses, results of operations, financial condition or cash flow in a given quarterly or annual period.

In addition, to the extent that insurance coverage is available, significant management judgment is required to determine the amount of recoveries that are probable of collection under the Company's various insurance programs.

#### Retirement Benefits

The Company maintains qualified and non-qualified defined benefit pension and defined contribution plans for its eligible U.S. employees and a variety of defined benefit and defined contribution plans for its eligible non-U.S. employees. The Company's policy for funding its tax-qualified defined benefit retirement

plans is to contribute amounts at least sufficient to meet the funding requirements set forth in U.S. and applicable foreign laws.

The Company recognizes the funded status of its over-funded defined benefit pension and retiree medical plans as a net benefit plan asset and its unfunded and underfunded plans as a net benefit plan liability. The gains or losses and prior service costs or credits that have not been recognized as components of net periodic costs are recorded as a component of Accumulated Other Comprehensive Income ("AOCI"), net of tax, in the Company's consolidated balance sheets. The gains and losses that exceed specified corridors are amortized prospectively out of AOCI over a period that approximates the remaining life expectancy of participants in plans where substantially all participants are inactive or the average remaining service period of active participants for plans with active participants. The vast majority of unrecognized losses relate to inactive plans and are amortized over the remaining life expectancy of the participants.

The determination of net periodic pension cost is based on a number of assumptions, including an expected long-term rate of return on plan assets, the discount rate, mortality and assumed rate of salary increase. The assumptions used in the calculation of net periodic pension costs and pension liabilities are disclosed in Note 8 to the consolidated financial statements. The assumptions for expected rate of return on plan assets and the discount rate are discussed in more detail below.

The long-term rate of return on plan assets assumption is determined for each plan based on the facts and circumstances that exist as of the measurement date, and the specific portfolio mix of each plan's assets. The Company utilizes a model developed by Mercer, a subsidiary of the Company, to assist in the determination of this assumption. The model takes into account several factors, including: actual and target portfolio allocation; investment, administrative and trading expenses incurred directly by the plan trust; historical portfolio performance; relevant forward-looking economic analysis; and expected returns, variances and correlations for different asset classes. These measures are used to determine probabilities using standard statistical techniques to calculate a range of expected returns on the portfolio.

The target asset allocation for the U.S. Plans is 64% equities and equity alternatives and 36% fixed income. At December 31, 2018, the actual allocation for the U.S. Plans was 62% equities and equity alternatives and 38% fixed income. At the end of 2018, the target asset allocation for the U.K. Plans, which comprise approximately 81% of non-U.S. Plan assets, was 34% equities and equity alternatives and 66% fixed income. At December 31, 2018, the actual allocation for the U.K. Plans was 34% equities and equity alternatives and 66% fixed income.

The discount rate selected for each U.S. Plan is based on a model bond portfolio with coupons and redemptions that closely match the expected liability cash flows from the plan. Discount rates for non-U.S. plans are based on appropriate bond indices adjusted for duration; in the U.K., the plan duration is reflected using the Mercer yield curve.

The table below shows the weighted average assumed rate of return and the discount rate at the December 31, 2018 measurement date (for measuring pension expense in 2019) for the total Company, the U.S. and the Rest of World ("ROW").

	Total Company	U.S.	ROW		
Assumed Rate of Return on Plan Assets	5.74%	7.95%	4.87%		
Discount Rate	3.48%	4.45%	2.89%		

Holding all other assumptions constant, a half-percentage point change in the rate of return on plan assets and discount rate assumptions would affect net periodic pension cost for the U.S. and U.K. plans, which together comprise approximately 84% of total pension plan liabilities, as follows:

	0.5 Percentage Point Increase					0.5 Percentage Point Decrease			
(In millions of dollars)	U.S.		U.K.		U.S.		U.K.		
Assumed Rate of Return on Plan Assets	\$ (22)	\$	(40)	\$	22	\$	40		
Discount Rate	\$ (1)	\$	(4)	\$	_	\$	3		

The impact of discount rate changes shown above relates to the increase or decrease in actuarial gains or losses being amortized through net periodic pension cost, as well as the increase or decrease in interest expense, with all other facts and assumptions held constant. It does not contemplate nor include potential future impacts a change in the interest rate environment and discount rates might cause, such as the impact on the market value of the plans' assets. Changing the discount rate and leaving the other assumptions constant also may not be representative of the impact on expense, because the long-term rates of inflation and salary increases are often correlated with the discount rate. Changes in these assumptions will not necessarily have a linear impact on the net periodic pension cost.

The Company contributes to certain health care and life insurance benefits provided to its retired employees. The cost of these post-retirement benefits for employees in the U.S. is accrued during the period up to the date employees are eligible to retire, but is funded by the Company as incurred. The key assumptions and sensitivity to changes in the assumed health care cost trend rate are discussed in Note 8 to the consolidated financial statements.

#### Income Taxes

The Company's tax rate reflects its income, statutory tax rates and tax planning in the various jurisdictions in which it operates. In 2017, the Company's tax expense was significantly impacted by the enactment of the TCJA, which is discussed in more detail in Note 7 to the consolidated financial statements included in this report. Significant judgment is required in determining the annual effective tax rate and in evaluating uncertain tax positions. The Company reports a liability for unrecognized tax benefits resulting from uncertain tax positions taken or expected to be taken in a tax return. The evaluation of a tax position is a two-step process. The first step involves recognition. The Company determines whether it is more likely than not that a tax position will be sustained upon tax examination, including resolution of any related appeals or litigation, based on only the technical merits of the position. The technical merits of a tax position derive from both statutory and judicial authority (legislation and statutes, legislative intent, regulations, rulings, and case law) and their applicability to the facts and circumstances of the tax position. If a tax position does not meet the more-likely-than-not recognition threshold, the benefit of that position is not recognized in the financial statements. The second step is measurement. A tax position that meets the more-likely-than-not recognition threshold is measured to determine the amount of benefit to recognize in the financial statements. The tax position is measured as the largest amount of benefit that is greater than 50 percent likely of being realized upon ultimate resolution with a taxing authority. Uncertain tax positions are evaluated based upon the facts and circumstances that exist at each reporting period and involve significant management judgment. Subsequent changes in judgment based upon new information may lead to changes in recognition, derecognition, and measurement. Adjustments may result, for example, upon resolution of an issue with

Certain items are included in the Company's tax returns at different times than the items are reflected in the financial statements. As a result, the annual tax expense reflected in the consolidated statements of income is different than that reported in the tax returns. Some of these differences are permanent, such as expenses that are not deductible in the returns, and some differences are temporary and reverse over time, such as depreciation expense. Temporary differences create deferred tax assets and liabilities, which are measured at existing tax rates. Deferred tax liabilities generally represent tax expense recognized in the financial statements for which payment has been deferred, or expense for which a deduction has been taken already in the tax return but the expense has not yet been recognized in the financial statements. Deferred tax assets generally represent items that can be used as a tax deduction or credit in tax returns in future years for which a benefit has already been recorded in the financial statements. The Company evaluates all significant available positive and negative evidence, including the existence of losses in recent years and its forecast of future taxable income by jurisdiction, in assessing the need for a valuation allowance. The Company also considers tax planning strategies that would result in realization of deferred tax assets, and the presence of taxable income in prior period tax fillings in jurisdictions that allow for the carryback of tax attributes pursuant to the applicable tax law. The underlying assumptions the Company uses in forecasting future taxable income require significant judgment and take into account the Company's recent performance. The ultimate realization of deferred tax assets is dependent on the generation of future taxable income during the periods in which temporary differences or carry-forwards are deductible or creditable. Valuation allowances are established for deferred tax

assets when it is estimated that it is more likely than not that future taxable income will be insufficient to fully use a deduction or credit in that jurisdiction.

## Fair Value Determinations

Goodwill Impairment Testing – The Company is required to assess goodwill and any indefinite-lived intangible assets for impairment annually, or more frequently if circumstances indicate impairment may have occurred. The Company performs the annual impairment test for each of its reporting units during the third quarter of each year. In accordance with applicable accounting guidance, the Company assesses qualitative factors to determine whether it is necessary to perform the two-step goodwill impairment test. The Company considered numerous factors, which included that the fair value of each reporting unit exceeded its carrying value by a substantial margin in its most recent estimate of reporting unit fair values, whether significant acquisitions or dispositions occurred which might alter the fair value of its reporting units, macroeconomic conditions and their potential impact on reporting unit fair values, actual performance compared with budget and prior projections used in its estimation of reporting unit fair values, industry and market conditions, and the year-over-year change in the Company's share price.

The Company completed its qualitative assessment in the third quarter of 2018 and concluded that a two-step goodwill impairment test was not required in 2018 and that goodwill was not impaired.

#### Share-Based Payment

The guidance for accounting for share-based payments requires, among other things, that the estimated fair value of stock options be charged to earnings. Significant management judgment is required to determine the appropriate assumptions for inputs such as volatility and expected term necessary to estimate option values. In addition, management judgment is required to analyze the terms of the plans and awards granted thereunder to determine if awards will be treated as equity awards or liability awards, as defined by the accounting guidance.

As of December 31, 2018, there was \$17 million of unrecognized compensation cost related to stock option awards. The weighted-average period over which the costs are expected to be recognized is 1.24 years. Also as of December 31, 2018, there was \$238.9 million of unrecognized compensation cost related to the Company's restricted stock, restricted stock unit and performance stock unit awards. The weighted-average period over which that cost is expected to be recognized is approximately 1.02 years.

See Note 9 to the consolidated financial statements for additional information regarding accounting for share-based payments.

#### Investments and Derivatives

Although not directly recorded in the Company's consolidated balance sheets, the Company's defined benefit pension plans hold investments of approximately \$14.4 billion, which include private equity and other non-liquid investments. The fair value of the plan investments determines, in part, the over-or under-funded status of those plans, which is included in the Company's consolidated balance sheets. The Company also has minority positions in certain equity securities (primarily Alexander Forbes) as well as approximately \$80 million of investments in private equity funds accounted for using the equity method of accounting.

The Company reviews the carrying value of its investments (both direct and held through its pension plans) to determine if any valuation adjustments are appropriate under the applicable accounting pronouncements. The Company bases its review on the facts and circumstances as they relate to each investment. In those instances where quoted market prices are not available, particularly for private equity funds, significant management judgment is required to determine the appropriate value of the Company's investments. Fair value of investments in private equity funds is determined by the funds' investment managers. Factors considered in determining the fair value of private equity investments include: implied valuation of recently completed financing rounds that included sophisticated outside investors; performance multiples of comparable public companies; restrictions on the sale or disposal of the investments; trading characteristics of the securities; and the relative size of the holdings in comparison to other private investors and the public market float.

In connection with the JLT Transaction, the Company entered into several derivative contracts, described in Note 11 to the consolidated financial statements. These derivative contracts are recorded at fair value

at the end of each period, with the change in fair value recorded in the consolidated statements of income. Determining the fair value of these contracts, in particular the deal contingent foreign exchange contract, requires significant management judgments or estimates about the potential closing dates of the transaction and remaining value of the deal contingency feature.

## **New Accounting Pronouncements**

Note 1 to the consolidated financial statements contains a summary of the Company's significant accounting policies, including a discussion of recently issued accounting pronouncements and their impact or potential future impact on the Company's financial results, if determinable, under the sub-heading "New Accounting Pronouncements".

## Item 7A. Quantitative and Qualitative Disclosures About Market Risk

#### Market Risk and Credit Risk

Certain of the Company's revenues, expenses, assets and liabilities are exposed to the impact of interest rate changes and fluctuations in foreign currency exchange rates and equity markets.

Interest Rate Risk and Credit Risk

Interest income generated from the Company's cash investments as well as invested fiduciary funds will vary with the general level of interest rates.

The Company had the following investments subject to variable interest rates:

(In millions of dollars)	December 31, 2018
Cash and cash equivalents invested in money market funds, certificates of deposit and time deposits	\$ 1,066
Fiduciary cash and investments	\$ 5,001

Based on the above balances, if short-term interest rates increased or decreased by 10%, or 15 basis points, over the full year, annual interest income, including interest earned on fiduciary funds, would increase or decrease by approximately \$6 million.

In addition to interest rate risk, our cash investments and fiduciary fund investments are subject to potential loss of value due to counter-party credit risk. To minimize this risk, the Company and its subsidiaries invest pursuant to a Board approved investment policy. The policy mandates the preservation of principal and liquidity and requires broad diversification with counter-party limits assigned based primarily on credit rating and type of investment. The Company carefully monitors its cash and fiduciary fund investments and will further restrict the portfolio as appropriate to market conditions. The majority of cash and fiduciary fund investments are invested in short-term bank deposits and liquid money market funds.

## Foreign Currency Risk

The translated values of revenue and expense from the Company's international operations are subject to fluctuations due to changes in currency exchange rates. The non-U.S. based revenue that is exposed to foreign exchange fluctuations is approximately 52% of total revenue. We periodically use forward contracts and options to limit foreign currency exchange rate exposure on net income and cash flows for specific, clearly defined transactions arising in the ordinary course of business. Although the Company has significant revenue generated in foreign locations which is subject to foreign exchange rate fluctuations, in most cases both the foreign currency revenue and expenses are in the functional currency of the foreign location. As such, under normal circumstances, the U.S. dollar translation of both the revenues and expenses, as well as the potentially offsetting movements of various currencies against the U.S. dollar, generally tends to mitigate the impact on net operating income of foreign currency risk. However, there have been periods where the impact was not mitigated due to external market factors, and external macroeconomic events, such as uncertainty regarding the impact of "Brexit" in the United Kingdom, may result in greater foreign exchange rate fluctuations in the future. If foreign exchange rates of major currencies (Euro, Sterling, Australian dollar and Canadian dollar) moved 10% in the same direction against the U.S. dollar compared with the foreign exchange rates in 2018, the Company estimates net operating income would increase or decrease by approximately \$56 million. The Company has exposure to approximately 80 foreign currencies overall. In Continental Europe, the largest amount of revenue from renewals for the Risk & Insurance Services segment occurs in the first quarter.

#### JLT Transaction

The purchase price of the JLT Transaction is denominated in GBP. To hedge the risk of appreciation in GBP, the Company entered into an FX Contract in September 2018, which is discussed in Note 11 to the consolidated financial statements. For each 1% increase or decrease in the GBP/U.S. dollar exchange rate, the fair value of the FX Contract will increase (dollar weakens) or decrease (dollar strengthens) by approximately \$70 million.

## Equity Price Risk

As discussed in Note 18 to the consolidated financial statements, effective January 1, 2018, the Company adopted a new accounting standard that requires equity investments with readily determinable market values to be measured at fair value with changes in fair value recognized in net income.

The Company holds investments in both public and private companies as well as private equity funds, including investments of approximately \$146 million that are valued using readily determinable fair values and approximately \$75 million of investments without readily determinable fair values. The Company also has investments of approximately \$287 million that are accounted for using the equity method, including the Company's investment in Alexander Forbes. The investments are subject to risk of decline in market value, which, if determined to be other than temporary for assets without readily determinable fair values, could result in realized impairment losses. The Company periodically reviews the carrying value of such investments to determine if any valuation adjustments are appropriate under the applicable accounting pronouncements.

The Company owns approximately 33% of the common stock of Alexander Forbes, a South African company listed on the Johannesburg Stock Exchange, which it purchased in 2014 for 7.50 South African Rand per share. The shares of AF have been trading below the Company's carrying value since November of 2017, but had traded within 10% of the Company's carrying value through much of the first quarter of 2018. In May 2018, the trading price declined to 30% to 35% below the Company's cost and remained at the discounted level through the third quarter of 2018. The Company considered several factors in assessing the carrying value of its investment in AF, including its financial position, the near- and long-term prospects of AF and the broader South African economy and capital markets, the length of time and extent to which the market value was below cost and the Company's intent and ability to retain the investment for a sufficient period of time to allow for anticipated recovery in market value. However, based on the duration of time and the extent to which the shares traded below their cost, the Company could not develop sufficient objective evidence to support a recovery of the price in the relatively near future. As such, the Company concluded the decline in value of the investment was other than temporary and recorded a charge of \$83 million in 2018. As of December 31, 2018, the carrying value of the Company's investment in Alexander Forbes was approximately \$144 million. As of December 31, 2018, the market value of the approximately 443 million shares of Alexander Forbes owned by the Company, based on the December 31, 2018 closing share price of 5.14 South African Rand per share, was approximately \$159 million.

#### Other

A number of lawsuits and regulatory proceedings are pending. See Note 16 ("Claims, Lawsuits and Other Contingencies") to the consolidated financial statements included in this report.

## ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA

 ${\it MARSH~\&~Mclennan~Companies,~inc.~and~subsidiaries} \\ {\it consolidated~statements~of~income} \\$ 

For the Years Ended December 31,			
(In millions, except per share figures)	2018	2017	2016
Revenue	\$ 14,950	\$ 14,024	\$ 13,211
Expense:			
Compensation and benefits	8,605	8,085	7,694
Other operating expenses	3,584	3,284	3,086
Operating expenses	12,189	11,369	10,780
Operating income	2,761	2,655	2,431
Other net benefits credits	215	201	233
Interest income	11	9	5
Interest expense	(290)	(237)	(189)
Investment (loss) income	(12)	15	_
Acquisition related derivative contracts	(441)	_	_
Income before income taxes	2,244	2,643	2,480
Income tax expense	574	1,133	685
Income from continuing operations	1,670	1,510	1,795
Discontinued operations, net of tax	_	2	_
Net income before non-controlling interests	1,670	1,512	1,795
Less: Net income attributable to non-controlling interests	20	20	27
Net income attributable to the Company	\$ 1,650	\$ 1,492	\$ 1,768
Basic net income per share			
<ul> <li>Continuing operations</li> </ul>	\$ 3.26	\$ 2.91	\$ 3.41
<ul> <li>Net income attributable to the Company</li> </ul>	\$ 3.26	\$ 2.91	\$ 3.41
Diluted net income per share			
<ul> <li>Continuing operations</li> </ul>	\$ 3.23	\$ 2.87	\$ 3.38
<ul> <li>Net income attributable to the Company</li> </ul>	\$ 3.23	\$ 2.87	\$ 3.38
Average number of shares outstanding			
– Basic	506	513	519
– Diluted	511	519	524
Shares outstanding at December 31,	504	509	514

# MARSH & McLENNAN COMPANIES, INC. AND SUBSIDIARIES CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME

For the Years Ended December 31, (In millions)	2018	2017	2016
Net income before non-controlling interests	\$ 1,670	\$ 1,512	\$ 1,795
Other comprehensive (loss) income, before tax:			
Foreign currency translation adjustments	(529)	717	(742)
Unrealized investment (loss) income	_	(7)	21
(Loss) gain related to pension/post-retirement plans	(91)	408	(119)
Other comprehensive (loss) income, before tax	(620)	1,118	(840)
Income tax (credit) expense on other comprehensive (loss) income	(30)	68	33
Other comprehensive (loss) income, net of tax	(590)	1,050	(873)
Comprehensive income	1,080	2,562	922
Less: Comprehensive income attributable to non-controlling interests	20	20	27
Comprehensive income attributable to the Company	\$ 1,060	\$ 2,542	\$ 895

# MARSH & McLENNAN COMPANIES, INC. AND SUBSIDIARIES ${\bf CONSOLIDATED\ BALANCE\ SHEETS}$

December 31,				
(In millions, except share figures)		2018		2017
ASSETS		2010		2017
Current assets:				
Cash and cash equivalents	\$	1,066	\$	1,205
Receivables		.,000	<u> </u>	1,200
Commissions and fees		3,984		3,777
Advanced premiums and claims		79		65
Other		366		401
		4,429		4,243
Less-allowance for doubtful accounts and cancellations		(112)		(110)
Net receivables		4,317		4,133
Other current assets		551		224
Total current assets		5,934		5,562
Goodwill Goodwill				
		9,599		9,089 1,274
Other intangible assets Fixed assets, net		1,437 701		712
Pension related assets		1,688		1,693
Deferred tax assets		680		669
Other assets		1,539		1,430
Other assets	\$	<u> </u>	\$	
LIABILITIES AND EQUITY	<b></b>	21,578	φ	20,429
Current liabilities:				
Short-term debt	\$	314	\$	262
Accounts payable and accrued liabilities	Ψ	2,234	Ψ	2,083
Accrued compensation and employee benefits		1,778		1,718
Acquisition related derivatives		441		1,710
Accrued income taxes		157		199
Total current liabilities		4,924		4,262
Fiduciary liabilities		5,001		4,847
Less – cash and investments held in a fiduciary capacity		(5,001)		(4,847)
Less – cash and investments held in a huddary capacity		(3,001)		(4,047)
Long-term debt		5,510		5,225
Pension, postretirement and postemployment benefits		1,911		1,888
Liability for errors and omissions		287		301
Other liabilities		1,362		1,311
Commitments and contingencies		1,302		1,011
Equity:		<u> </u>		_
Preferred stock, \$1 par value, authorized 6,000,000 shares, none issued				
Common stock, \$1 par value, authorized		_		_
1,600,000,000 shares, issued 560,641,640 shares at December 31, 2018 and December 31, 2017		561		561
Additional paid-in capital		817		784
Retained earnings		14,347		13,140
Accumulated other comprehensive loss		(4,647)		(4,043)
Non-controlling interests		73		83
Troit conditioning into cold				
		11,151		10,525
Less – treasury shares, at cost, 56,804,468 shares at December 31, 2018 and 51,930,135 shares at December 31, 2017		(3,567)		(3,083)
Total equity		7,584		7,442
	\$	21,578	\$	20,429

# ${\it MARSH~\&~Mclennan~companies,~inc.~and~subsidiaries} \\ {\it consolidated~statements~of~cash~flows}$

For the Years Ended December 31,			
(In millions)	2018	2017	2016
Operating cash flows:			
Net income before non-controlling interests	\$ 1,670	\$ 1,512	\$ 1,795
Adjustments to reconcile net income to cash provided by operations:			
Depreciation and amortization of fixed assets and capitalized software	311	312	308
Amortization of intangible assets	183	169	130
Adjustments and payments related to contingent consideration liability	(4)	(24)	(33)
Loss (gain) on deconsolidation of entity	11	_	(11)
(Benefit) Provision for deferred income taxes	(39)	396	68
Loss (Gain) on investments	12	(15)	_
(Gain) Loss on disposition of assets	(48)	10	6
Share-based compensation expense	193	149	109
Change in fair value of acquisition-related derivative contracts	441	_	_
Changes in assets and liabilities:			
Net receivables	(78)	(454)	(154)
Other current assets	26	(3)	(9)
Other assets	(37)	(199)	34
Accounts payable and accrued liabilities	23	87	55
Accrued compensation and employee benefits	68	63	2
Accrued income taxes	(40)	37	(21)
Contributions to pension and other benefit plans in excess of current year expense/credit	(291)	(457)	(279
Other liabilities	9	406	(97)
Effect of exchange rate changes	18	(96)	104
Net cash provided by operations	2,428	1,893	2,007
Financing cash flows:			
Purchase of treasury shares	(675)	(900)	(800)
Net increase in commercial paper	_	_	50
Proceeds from issuance of debt	591	987	347
Repayments of debt	(263)	(315)	(12)
Payment of bridge loan fees	(35)	_	_
Shares withheld for taxes on vested units – treasury shares	(67)	(49)	(39)
Issuance of common stock from treasury shares	93	166	188
Payments of deferred and contingent consideration for acquisitions	(117)	(136)	(98
Distributions of non-controlling interests	(30)	(22)	(21
Dividends paid	(807)	(740)	(682
Net cash used for financing activities	(1,310)	(1,009)	(1,067
Investing cash flows:			
Capital expenditures	(314)	(302)	(253)
Net sales (purchases) of long-term investments	4	(13)	2
Proceeds from sales of fixed assets	3	8	4
Dispositions	110	_	_
Acquisitions	(884)	(655)	(813
Other, net	(8)	6	4
Net cash used for investing activities	(1,089)	(956)	(1,056
Effect of exchange rate changes on cash and cash equivalents	(168)	251	(232
(Decrease) Increase in cash and cash equivalents	(139)	179	(348)
Cash and cash equivalents at beginning of year	1,205	1,026	1,374
Cash and cash equivalents at end of year	\$ 1,066	\$ 1,205	\$ 1,026

# ${\it MARSH~\&~Mclennan~companies,~inc.~and~subsidiaries} \\ {\it consolidated~statements~of~equity}$

For the Years Ended December 31,			
(In millions, except per share figures)	2018	2017	2016
COMMON STOCK			
Balance, beginning and end of year	\$ 561	\$ 561	\$ 561
ADDITIONAL PAID-IN CAPITAL			
Balance, beginning of year	\$ 784	\$ 842	\$ 861
Change in accrued stock compensation costs	66	63	44
Issuance of shares under stock compensation plans and employee stock purchase plans and related tax impact	(35)	(120)	(63)
Other	2	(1)	_
Balance, end of year	\$ 817	\$ 784	\$ 842
RETAINED EARNINGS			
Balance, beginning of year	\$ 13,140	\$ 12,388	\$ 11,302
Net income attributable to the Company	1,650	1,492	1,768
Cumulative effect of adoption of the revenue recognition standard (See Note 1)	364	_	_
Cumulative effect of adoption of other accounting standards (See Note 1)	_	_	_
Dividend equivalents declared - (per share amounts: \$1.58 in 2018, \$1.43 in 2017, and \$1.30 in 2016)	(7)	(6)	(7)
Dividends declared – (per share amounts: \$1.58 in 2018, \$1.43 in 2017, and \$1.30 in 2016)	(800)	(734)	(675)
Balance, end of year	\$ 14,347	\$ 13,140	\$ 12,388
ACCUMULATED OTHER COMPREHENSIVE LOSS			
Balance, beginning of year	\$ (4,043)	\$ (5,093)	\$ (4,220)
Cumulative effect of adoption of the financial instruments standard (See Note 1)	(14)	_	_
Other comprehensive (loss) income, net of tax	(590)	1,050	(873)
Balance, end of year	\$ (4,647)	\$ (4,043)	\$ (5,093)
TREASURY SHARES			
Balance, beginning of year	\$ (3,083)	\$ (2,506)	\$ (1,991)
Issuance of shares under stock compensation plans and employee stock purchase plans	191	323	285
Purchase of treasury shares	(675)	(900)	(800)
Balance, end of year	\$ (3,567)	\$ (3,083)	\$ (2,506)
NON-CONTROLLING INTERESTS			
Balance, beginning of year	\$ 83	\$ 80	\$ 89
Net income attributable to non-controlling interests	20	20	27
Distributions and other changes	(30)	(17)	(22)
Deconsolidation of subsidiary			(14)
Balance, end of year	\$ 73	\$ 83	\$ 80
TOTAL EQUITY	\$ 7,584	\$ 7,442	\$ 6,272

## MARSH & McLENNAN COMPANIES, INC. AND SUBSIDIARIES NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

### 1. Summary of Significant Accounting Policies

Nature of Operations: Marsh & McLennan Companies, Inc. (the "Company"), a global professional services firm, is organized based on the different services that it offers. Under this structure, the Company's two business segments are Risk and Insurance Services and Consulting.

The Risk and Insurance Services segment provides risk management solutions, services, advice and insurance broking, reinsurance broking and insurance program management services for businesses, public entities, insurance companies, associations, professional services organizations, and private clients. The Company conducts business in this segment through Marsh and Guy Carpenter.

The Company conducts business in its Consulting segment through Mercer and Oliver Wyman Group. Mercer provides consulting expertise, advice, services and solutions in the areas of health, wealth and career consulting services and products. Oliver Wyman Group provides specialized management and economic and brand consulting services.

Acquisitions impacting the Risk and Insurance Services and Consulting segments are discussed in Note 5 below.

**Principles of Consolidation:** The accompanying consolidated financial statements include all wholly-owned and majority-owned subsidiaries. All significant inter-company transactions and balances have been eliminated.

**Fiduciary Assets and Liabilities:** In its capacity as an insurance broker or agent, generally the Company collects premiums from insureds and after deducting its commissions, remits the premiums to the respective insurance underwriters. The Company also collects claims or refunds from underwriters on behalf of insureds. Unremitted insurance premiums and claims proceeds are held by the Company in a fiduciary capacity. Risk and Insurance Services revenue includes interest on fiduciary funds of \$65 million, \$39 million and \$26 million in 2018, 2017 and 2016, respectively. The Consulting segment recorded fiduciary interest income of \$3 million, \$4 million and \$3 million in 2018, 2017 and 2016, respectively. Since fiduciary assets are not available for corporate use, they are shown in the consolidated balance sheets as an offset to fiduciary liabilities.

Net uncollected premiums and claims and the related payables were \$7.3 billion and \$6.8 billion at December 31, 2018 and 2017, respectively. The Company is not a principal to the contracts under which the right to receive premiums or the right to receive reimbursement of insured losses arises. Accordingly, net uncollected premiums and claims and the related payables are not assets and liabilities of the Company and are not included in the accompanying consolidated balance sheets.

In certain instances, the Company advances premiums, refunds or claims to insurance underwriters or insureds prior to collection. These advances are made from corporate funds and are reflected in the accompanying consolidated balance sheets as receivables.

Mercer manages assets in trusts or funds for which Mercer's management or trustee fee is not considered a variable interest, since the fees are commensurate with the level of effort required to provide those services. Mercer is not the primary beneficiary of these trusts or funds. Mercer's maximum exposure to loss of its interests is, therefore, limited to collection of its fees.

Revenue: The Company provides detailed discussion regarding its revenue policies in Note 2 to the consolidated financial statements

Cash and Cash Equivalents: Cash and cash equivalents primarily consist of certificates of deposit and time deposits, with original maturities of three months or less, and money market funds. The estimated fair value of the Company's cash and cash equivalents approximates their carrying value. The Company is required to maintain operating funds primarily related to regulatory requirements outside the United States or as collateral under captive insurance arrangements. At December 31, 2018, the Company maintained \$186 million related to these regulatory requirements.

**Fixed Assets:** Fixed assets are stated at cost less accumulated depreciation and amortization. Expenditures for improvements are capitalized. Upon sale or retirement of an asset, the cost and related

accumulated depreciation and amortization are removed from the accounts and any gain or loss is reflected in income. Expenditures for maintenance and repairs are charged to operations as incurred.

Depreciation of buildings, building improvements, furniture, and equipment is provided on a straight-line basis over the estimated useful lives of these assets. Furniture and equipment is depreciated over periods ranging from three to ten years. Leasehold improvements are amortized on a straight-line basis over the periods covered by the applicable leases or the estimated useful life of the improvement, whichever is less. Buildings are depreciated over periods ranging from thirty to forty years. The Company periodically reviews long-lived assets for impairment whenever events or changes indicate that the carrying value of assets may not be recoverable.

The components of fixed assets are as follows:

December 31,		
(In millions of dollars)	2018	2017
Furniture and equipment	\$ 1,159	\$ 1,179
Land and buildings	377	385
Leasehold and building improvements	1,007	974
	2,543	2,538
Less-accumulated depreciation and amortization	(1,842)	(1,826)
	\$ 701	\$ 712

**Investments:** The caption "Investment (loss) income" in the consolidated statements of income comprises realized and unrealized gains and losses from investments recognized in earnings. It includes, when applicable, other than temporary declines in the value of securities, mark-to-market increases or decreases in equity investments with readily determinable fair values and equity method gains or losses on the Company's investments in private equity funds.

The Company holds certain equity investments, that under legacy GAAP, were previously classified as available for sale securities, whereby the mark-to-market change was recorded to accumulated other comprehensive income in its consolidated balance sheet. As discussed in Note 1, effective January 1, 2018, the Company adopted new accounting guidance that requires equity investments (except those accounted for under the equity method of accounting, or those that result in consolidation of the investee) to be measured at fair value with changes in fair value recognized in net income. The Company recorded a cumulative-effect adjustment that increased retained earnings as of the beginning of the period of adoption by \$14 million, reflecting the reclassification of cumulative unrealized gains, net of tax as of December 31, 2017 from accumulated other comprehensive income to retained earnings. Prior periods have not been restated.

The Company holds investments in certain private equity funds. Investments in private equity funds are accounted for under the equity method of accounting using a consistently applied three-month lag period adjusted for any known significant changes from the lag period to the reporting date of the Company. The underlying private equity funds follow investment company accounting, where investments within the fund are carried at fair value. Investment gains or losses for its proportionate share of the change in fair value of the funds are recorded in earnings. Investments using the equity method of accounting are included in "other assets" in the consolidated balance sheets.

In 2018 the Company recorded an investment loss of \$12 million compared to investment income of \$15 million in 2017 and less than \$1 million in 2016. The investment loss in 2018 includes an impairment charge of \$83 million related to its investment in Alexander Forbes (see Note 10). The net investment loss in 2018 also includes gains of \$54 million related to mark-to-market changes in equity securities and gains of \$17 million related to investments in private equity funds and other investments.

Goodwill and Other Intangible Assets: Goodwill represents acquisition costs in excess of the fair value of net assets acquired. Goodwill is reviewed at least annually for impairment. The Company performs an annual impairment test for each of its reporting units during the third quarter of each year. When a step 1 test is performed, fair values of the reporting units are estimated using either a market approach or a discounted cash flow model. Carrying values for the reporting units are based on balances at the prior

quarter end and include directly identified assets and liabilities as well as an allocation of those assets and liabilities not recorded at the reporting unit level. As discussed in Note 6, the Company may elect to assess qualitative factors to determine if a step 1 test is necessary. Other intangible assets, which primarily consist of acquired customer lists, that are not deemed to have an indefinite life, are amortized over their estimated lives, typically ranging from 10 to 15 years, and reviewed for impairment upon the occurrence of certain triggering events in accordance with applicable accounting literature. The Company had no indefinite lived identified intangible assets at December 31, 2018 and 2017.

Capitalized Software Costs: The Company capitalizes certain costs to develop, purchase or modify software for the internal use of the Company. These costs are amortized on a straight-line basis over periods ranging from 3 to 10 years. Costs incurred during the preliminary project stage and post implementation stage, are expensed as incurred. Costs incurred during the application development stage are capitalized. Costs related to updates and enhancements are only capitalized if they will result in additional functionality. Capitalized computer software costs of \$435 million and \$488 million, net of accumulated amortization of \$1.3 billion for both December 31, 2018 and 2017, are included in other assets in the consolidated balance sheets.

Legal and Other Loss Contingencies: The Company and its subsidiaries are subject to a significant number of claims, lawsuits and proceedings including claims for errors and omissions ("E&O"). The preparation of financial statements in conformity with accounting principles generally accepted in the United States ("GAAP") requires that a liability be recorded when a loss is both probable and reasonably estimable. Significant management judgment is required to apply this guidance. The Company utilizes case level reviews by inside and outside counsel, an internal actuarial analysis by Oliver Wyman Group, a subsidiary of the Company, and other methods to estimate potential losses. The liability is reviewed quarterly and adjusted as developments warrant. In many cases, the Company has not recorded a liability, other than for legal fees to defend the claim, because we are unable, at the present time, to make a determination that a loss is both probable and reasonably estimable. Given the unpredictability of E&O claims and of litigation that could flow from them, it is possible that an adverse outcome in a particular matter could have a material adverse effect on the Company's businesses, results of operations, financial condition or cash flow in a given quarterly or annual period.

In addition, to the extent that insurance coverage is available, significant management judgment is required to determine the amount of recoveries that are probable of collection under the Company's various insurance programs.

The legal and other contingent liabilities described above are not discounted.

**Income Taxes:** The Company's effective tax rate reflects its income, statutory tax rates and tax planning in the various jurisdictions in which it operates. Significant judgment is required in determining the annual tax provision and in evaluating uncertain tax positions and the ability to realize deferred tax assets.

The Company reports a liability for unrecognized tax benefits resulting from uncertain tax positions taken or expected to be taken in a tax return. The evaluation of a tax position is a two-step process. The first step involves recognition. The Company determines whether it is more likely than not that a tax position will be sustained upon tax examination, including resolution of any related appeals or litigation, based on only the technical merits of the position. The technical merits of a tax position derive from both statutory and judicial authority (legislation and statutes, legislative intent, regulations, rulings, and case law) and their applicability to the facts and circumstances of the tax position. If a tax position does not meet the more-likely-than-not recognition threshold, the benefit of that position is not recognized in the financial statements. The second step is measurement. A tax position that meets the more-likely-than-not-recognition threshold is measured to determine the amount of benefit to recognize in the financial statements. The tax position is measured as the largest amount of benefit that is greater than 50 percent likely to be realized upon ultimate resolution with a taxing authority. Uncertain tax positions are evaluated based upon the facts and circumstances that exist at each reporting period. Subsequent changes in judgment based upon new information may lead to changes in recognition, de-recognition, and measurement. Adjustments may result, for example, upon resolution of an issue with the taxing authorities, or expiration of a statute of limitations barring an assessment for an issue. The Company recognizes interest and penalties, if any, related to unrecognized tax benefits in income tax expense.

Tax law may require items be included in the Company's tax returns at different times than the items are reflected in the financial statements. As a result, the annual tax expense reflected in the consolidated statements of income is different than that reported in the income tax returns. Some of these differences are permanent, such as expenses that are not deductible in the returns, and some differences are temporary and reverse over time, such as depreciation expense. Temporary differences create deferred tax assets and liabilities. Deferred tax assets generally represent items that can be used as a tax deduction or credit in tax returns in future years for which benefit has already been recorded in the financial statements. Valuation allowances are established for deferred tax assets when it is estimated that future taxable income will be insufficient to use a deduction or credit in that jurisdiction. Deferred tax liabilities generally represent tax expense recognized in the financial statements for which payment has been deferred, or expense for which a deduction has been taken already in the tax return but the expense has not yet been recognized in the financial statements.

**Derivative Instruments:** All derivatives, whether designated in hedging relationships or not, are recorded on the balance sheet at fair value. If the derivative is designated as a fair value hedge, the changes in the fair value of the derivative and of the hedged item attributable to the hedged risk are recognized in earnings. The fair value of the derivative is recorded in the consolidated balance sheet in other receivables or accounts payable and accrued liabilities. If the derivative is designated as a cash flow hedge, the effective portions of changes in the fair value of the derivative are recorded in other comprehensive income and are recognized in the income statement when the hedged item affects earnings. Changes in the fair value attributable to the ineffective portion of cash flow hedges are recognized in earnings. If a derivative is not designated as an accounting hedge, the change in fair value is recorded in earnings.

Concentrations of Credit Risk: Financial instruments which potentially subject the Company to concentrations of credit risk consist primarily of cash and cash equivalents, commissions and fees receivable and insurance recoverables. The Company maintains a policy providing for the diversification of cash and cash equivalent investments and places its investments in a large number of high quality financial institutions to limit the amount of credit risk exposure. Concentrations of credit risk with respect to receivables are generally limited due to the large number of clients and markets in which the Company does business, as well as the dispersion across many geographic areas.

Per Share Data: Basic net income per share attributable to the Company and income from continuing operations per share are calculated by dividing the respective after-tax income attributable to common shares by the weighted average number of outstanding shares of the Company's common stock

Diluted net income per share attributable to the Company and income from continuing operations per share are calculated by dividing the respective after-tax income attributable to common shares by the weighted average number of outstanding shares of the Company's common stock, which have been adjusted for the dilutive effect of potentially issuable common shares. Reconciliations of the applicable components used to calculate basic and diluted EPS - Continuing Operations are presented below. The reconciling items related to the EPS calculation are the same for both basic and diluted EPS.

Basic and Diluted EPS Calculation - Continuing Operations			
(In millions, except per share figures)	2018	2017	2016
Net income from continuing operations	\$ 1,670	\$ 1,510	\$ 1,795
Less: Net income attributable to non-controlling interests	20	20	27
	\$ 1,650	\$ 1,490	\$ 1,768
Basic weighted average common shares outstanding	506	513	519
Dilutive effect of potentially issuable common shares	5	6	5
Diluted weighted average common shares outstanding	511	519	524
Average stock price used to calculate common stock equivalents	\$ 83.13	\$ 77.30	\$ 63.51

**Estimates:** GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of assets and liabilities at the date of the financial statements, and the reported amounts of revenues and expenses during the reporting period. Actual results may vary from those estimates.

#### New Accounting Pronouncements Effective January 1, 2018:

The following new accounting standards were adopted using a modified retrospective approach through a cumulative-effect adjustment to retained earnings as of January 1, 2018:

New Revenue Recognition Standard

In May 2014, the FASB issued new accounting guidance related to revenue from contracts with customers. The core principle of the guidance is that an entity should recognize revenue to depict the transfer of promised goods or services to customers in an amount that reflects the consideration to which the entity expects to be entitled in exchange for those goods or services. The Company adopted the new guidance effective January 1, 2018, using the modified retrospective method, which applies the new guidance beginning with the year of adoption, with the cumulative effect of initially applying the guidance recognized as an adjustment to retained earnings at January 1, 2018. The Company elected to apply the modified retrospective method to all contracts.

The guidance includes requirements to estimate variable or contingent consideration to be received, which will result in revenue being recognized earlier than under legacy GAAP. In addition, the guidance requires the capitalization and amortization of certain costs which were expensed as incurred under legacy GAAP. The adoption of this new revenue recognition standard shifted revenue in the Risk and Insurance Services segment among quarters from historical patterns, but did not have a significant year-over-year impact on annual revenue in either segment.

Upon adoption of the new revenue standard, the Company recognized significant movement in the quarterly timing of revenue recognized in the Risk and Insurance Services segment. In particular, under the new standard the recognition of revenue for reinsurance broking was accelerated from historical patterns. Estimated revenue from these treaties is recognized largely at the policy effective date at which point control over the services provided by the Company transfers to the client and the client has accepted the services. This resulted in a significant increase in revenue in the first quarter of 2018 compared to the same period in 2017. Prior to the adoption of this standard, revenue related to most reinsurance placements was recognized on the later of billing or effective date as premiums are determined by the primary insurers and attached to the reinsurance treaties. Typically, this resulted in revenue being recognized over a 12 to 18 month period.

Under the new standard, certain costs to obtain or fulfill a contract that were previously expensed as incurred have been capitalized.

The Company capitalized the incremental costs to obtain contracts primarily related to commissions or sales bonus payments in both segments. These deferred costs are amortized over the expected life of the underlying customer relationships.

In the Risk and Insurance Services segment, certain pre-placement costs to fulfill are now deferred and amortized into earnings when revenue from the placement is recognized. These costs were previously expensed as incurred. As such, the recognition of costs shifted among quarters.

In Consulting, the Company incurs implementation costs necessary to facilitate the delivery of the contracted services. The Company has concluded that certain additional implementation costs previously expensed under legacy GAAP will be deferred under the new guidance. In addition, the amortization period for these implementation costs will include the initial contract term plus expected renewals.

The cumulative effect of adopting the standard, net of tax, on January 1, 2018 resulted in an increase to the opening balance of retained earnings of \$364 million, with offsetting increases/decreases to other balance sheet accounts, e.g. accounts receivable, other assets and deferred income taxes. The comparative prior period information was not restated and will continue to be reported under the legacy accounting standards that were in effect for those periods.

The impact of adoption of the new revenue standard on the Company's consolidated income statement was as follows (in millions):

		For th	r Ended December 3	r 31, 2018			
		As Reported	R	evenue Standard Impact		Legacy GAAP	
Revenue	\$	14,950	\$	2	\$	14,952	
Expense:							
Compensation and benefits		8,605		17		8,622	
Other operating expenses		3,584		_		3,584	
Operating expenses		12,189		17		12,206	
Operating income		2,761		(15)		2,746	
Other net benefit credits		215		_		215	
Interest income		11		_		11	
Interest expense		(290)		_		(290)	
Investment (loss) income		(12)		_		(12)	
Acquisition related derivative contracts		(441)		_		(441)	
Income before income taxes		2,244		(15)		2,229	
Income tax expense		574		(4)		570	
Net income before non-controlling interests		1,670		(11)		1,659	
Less: Net income attributable to non-controlling interests		20		_		20	
Net income attributable to the Company	\$	1,650	\$	(11)	\$	1,639	

The impact of adoption of the new revenue standard on the Company's consolidated balance sheet was as follows (in millions):

		De	ecember 31, 2018	
		R	evenue Standard	
	As Reported		Impact	Legacy GAAP
ASSETS				
Current assets:				
Cash and cash equivalents	\$ 1,066	\$	_	\$ 1,066
Net receivables	4,317		(68)	4,249
Other current assets	551		(326)	225
Total current assets	5,934		(394)	5,540
Goodwill and intangible assets	11,036		_	11,036
Fixed assets, net	701		_	701
Pension related assets	1,688		_	1,688
Deferred tax assets	680		107	787
Other assets	1,539		(242)	1,297
TOTAL ASSETS	\$ 21,578	\$	(529)	\$ 21,049
LIABILITIES AND EQUITY				
Current liabilities:				
Short-term debt	\$ 314	\$	_	\$ 314
Accounts payable and accrued liabilities	2,234		(129)	2,105
Accrued compensation and employee benefits	1,778		_	1,778
Acquisition related derivatives	441		_	441
Accrued income taxes	157		_	157
Total current liabilities	4,924		(129)	4,795
Fiduciary liabilities	5,001		_	5,001
Less - cash and investments held in a fiduciary capacity	(5,001)		_	(5,001)
	_		_	_
Long-term debt	5,510		_	5,510
Pension, post-retirement and post-employment benefits	1,911		_	1,911
Liabilities for errors and omissions	287		_	287
Other liabilities	1,362		(25)	1,337
Total equity	7,584		(375)	7,209
TOTAL LIABILITIES AND EQUITY	\$ 21,578	\$	(529)	\$ 21,049

The impact of adoption of the new revenue standard on the Company's consolidated statement of cash flow was as follows (in millions):

	Twelve Months Ended December 31, 2018									
			Revenue Standard							
		As Reported	Impact	Legacy GAAP						
Operating cash flows:										
Net income before non-controlling interests	\$	1,670	\$ (11)	\$ 1,659						
Adjustments to reconcile net income to cash provided by operations:										
Depreciation and amortization of fixed assets and capitalized software		311	_	311						
Amortization of intangible assets		183	_	183						
Adjustments and payments related to contingent consideration liability		(4)	_	(4)						
Loss on deconsolidation of entity		11	_	11						
Benefit for deferred income taxes		(39)	_	(39)						
Loss on investments		12	_	12						
Gain on disposition of assets		(48)	_	(48)						
Change in fair value of acquisition related derivative contracts		441	_	441						
Share-based compensation expense		193	_	193						
Changes in assets and liabilities:										
Net receivables		(78)	_	(78)						
Other current assets		26	8	34						
Other assets		(37)	12	(25)						
Accounts payable and accrued liabilities		23	(7)	16						
Accrued compensation and employee benefits		68	_	68						
Accrued income taxes		(40)	_	(40)						
Contributions to pension and other benefit plans in excess of current year expense/credit		(291)	_	(291)						
Other liabilities		9	(2)	7						
Effect of exchange rate changes		18	_	18						
Net cash provided by operations	\$	2,428	\$ <u> </u>	\$ 2,428						

The adoption of the revenue recognition standard did not have an impact on the Company's financing or investing cash flows.

Other Standards Adopted Effective January 1, 2018 using the modified retrospective approach

In January 2016, the FASB issued new guidance intended to improve the recognition and measurement of financial instruments. The new guidance requires investments in equity securities (except those accounted for under the equity method of accounting, or those that result in consolidation of the investee) to be measured at fair value with changes in fair value recognized in net income; requires public business entities to use the exit price notion when measuring the fair value of financial instruments for disclosure purposes; requires separate presentation of financial assets and financial liabilities by measurement category and form of financial asset (i.e., securities or loans and receivables) on the balance sheet or the accompanying notes to the financial statements; eliminates the requirement for public business entities to disclose the method(s) and significant assumptions used to estimate the fair value that is required to be disclosed for financial instruments measured at amortized cost on the balance sheet; and requires a reporting organization to present separately in other comprehensive income the portion of the total change in the fair value of a liability resulting from a change in the instrument-specific credit risk (also

referred to as "own credit") when the organization has elected to measure the liability at fair value in accordance with the fair value option for financial instruments. The new guidance was effective for public companies for fiscal years beginning after December 15, 2017, including interim periods within those fiscal years. The Company holds certain equity investments that under legacy GAAP were previously treated as available for sale securities, whereby the mark-to-market change was recorded to accumulated other comprehensive income in its consolidated balance sheet. The Company adopted the new accounting guidance, effective January 1, 2018, recording a cumulative-effect adjustment increase to retained earnings as of the beginning of the period of adoption of \$14 million, reflecting the reclassification of cumulative unrealized gains, net of tax as of December 31, 2017 from accumulated other comprehensive income to retained earnings. Therefore, prior periods have not been restated.

In October 2016, the FASB also issued new guidance which requires an entity to recognize the income tax consequences of an intra-entity transfer of an asset other than inventory when the transfer occurs. The new guidance eliminates the exception for an intra-entity transfer of an asset other than inventory. The new guidance is effective for public companies for fiscal years beginning after December 15, 2017, including interim periods within those fiscal years. The new guidance must be applied on a modified retrospective basis through a cumulative-effect adjustment to retained earnings as of the beginning of the period of adoption. The Company adopted the new guidance effective January 1, 2018, recording a cumulative-effect adjustment decrease to retained earnings of approximately \$14 million as of the beginning of the period of adoption.

The impact on the Company's balance sheet as of January 1, 2018 related to the adoption of the accounting standards using the modified retrospective approach as discussed above is as follows:

						Adjustments			
	Dec	Balance at December 31, 2017		Revenue Recognition		Financial Instruments	Intra-Entity Transfer		Balance at nuary 1, 2018
Balance Sheet									_
<u>Assets</u>									
Net Receivables	\$	4,133	\$	68	\$	_	\$	_	\$ 4,201
Other Current Assets		224		318		_		_	542
Other Assets		1,430		226		_		_	1,656
Deferred Tax Assets		669		(103)		_		(14)	552
<u>Liabilities</u>									
Accounts Payable and Accrued Liabilities	3	2,083		122		_		_	2,205
Other Liabilities		1,311		23		_		_	1,334
Equity									
Other Accumulated Comprehensive Income		_		_		(14)		_	(14)
Retained Earnings	\$	13,140	\$	364	\$	14	\$	(14)	\$ 13,504

Cumulative effect adjustment related to the adoption of the revenue recognition standard

The cumulative effect adjustment recorded to net receivables and other current assets is primarily related to contingent brokerage revenue and quota share reinsurance brokerage. Under the new guidance, the Company is required to record an estimate of variable or contingent consideration earlier than under the previous rules. Also under the new guidance, revenue related to most reinsurance placements is accelerated versus previous patterns.

The cumulative effect adjustments also includes the capitalization of costs to fulfill and costs to obtain that are included in other current assets and other assets, respectively. These costs were previously expensed as incurred. The adjustment to accounts payable and accrued liabilities includes deferred revenue related to the timing of fee revenue recognition for fee based arrangements and certain post

placement servicing costs, primarily related to reinsurance brokerage costs that were previously expensed as incurred.

Adoption of amended accounting standard using the retrospective application approach

Effective January 1, 2018, the Company adopted new guidance that changes the presentation of net periodic pension cost and net periodic postretirement cost ("net periodic benefit costs"). The new guidance requires employers to report the service cost component of net periodic benefit costs in the same line item as other compensation costs in the income statement. The other components of net periodic benefit costs are required to be presented in the income statement separately from the service cost component and outside a subtotal of income from operations. The new guidance requires retrospective application for the presentation of the service cost component and the other components of net periodic benefit costs. Accordingly, we have reclassified prior period information in the consolidated results of operations, segment data and related disclosures contained in our notes to the consolidated financial statements to reflect the retrospective adoption of this standard.

Other accounting standards adopted effective January 1, 2018

In November 2016, the FASB issued new guidance which requires that a statement of cash flows explain the change during the period in the total of cash, cash equivalents and amounts generally described as restricted cash or restricted cash equivalents. As a result, amounts generally described as restricted cash and restricted cash equivalents should be included with cash and cash equivalents when reconciling the beginning-of-period and end-of-period total amounts shown on the statement of cash flows. The Company adopted this guidance, which is required to be applied retrospectively to all periods presented, effective January 1, 2018. The adoption of this guidance did not impact the Company's consolidated balance sheets or consolidated statements of cash flows.

In August 2016, the FASB issued new guidance which adds or clarifies guidance on the classification of certain cash receipts and payments in the statement of cash flows, including cash payments for debt prepayments or debt extinguishment costs, contingent consideration payments made after a business combination and distributions received from equity method investees. The Company adopted this guidance effective January 1, 2018. The adoption of this guidance did not impact the Company's consolidated statements of cash flows.

In January 2017, the FASB issued guidance which clarifies the definition of a business in order to assist companies with evaluating whether transactions should be accounted for as acquisitions (or disposals) of assets or businesses. The Company adopted this guidance effective January 1, 2018. The adoption of this standard did not have an impact on the Company's financial position or results of operations.

## Other accounting standards adopted in prior years

In April 2016, the FASB issued new guidance which simplifies several aspects of the accounting for employee share-based payment transactions, including the accounting for income taxes, forfeitures and statutory tax withholding requirements, as well as classification in the statement of cash flows. The new guidance requires that companies record all excess tax benefits and tax deficiencies as an income tax benefit or expense in the income statement and classify excess tax benefits as an operating activity in the statement of cash flows. The Company adopted this new guidance prospectively, effective January 1, 2017 and prior periods have not been adjusted. The adoption of this new standard reduced income tax expense in the consolidated statements of income by approximately \$28 million and \$79 million for the years ended December 31, 2018 and 2017, respectively. For the year ended December 31, 2016 the Company recorded an excess tax benefit of \$44 million as an increase to equity in its consolidated balance sheets, which was reflected as cash provided by financing activities in the consolidated statements of cash flows.

# New Accounting Pronouncements Not Yet Adopted

In August 2018, the FASB issued new guidance that amends required fair value measurement disclosures. The guidance adds new requirements, eliminates some current disclosures and modifies other required disclosures. The new disclosure requirements, along with modifications made to disclosures as a result of the change in requirements for narrative descriptions of measurement uncertainty, must be applied on a prospective basis. The effects of all other amendments included in the

guidance must be applied retrospectively for all periods presented. The guidance is effective for fiscal years beginning after December 15, 2019, including interim periods therein. Early adoption is permitted. Adoption of this guidance will impact disclosures only and will not have an impact on the Company's financial position or results of operations.

In August 2018, the FASB issued new guidance that amends disclosures related to Defined Benefit Plans. The guidance removes disclosures that no longer are considered cost-beneficial, clarifies the specific requirements of certain disclosures, and adds disclosure requirements identified as relevant. The guidance must be applied on a retrospective basis. The guidance is effective for fiscal years ending after December 15, 2020. Early adoption is permitted. Adoption of this guidance will impact disclosures only and will not have an impact on the Company's financial position or results of operations.

In January 2017, the FASB issued new guidance to simplify the test for goodwill impairment. The new guidance eliminates the second step in the current two-step goodwill impairment process, under which a goodwill impairment loss is measured by comparing the implied fair value of a reporting unit's goodwill with the carrying amount of that goodwill for that reporting unit. The new guidance requires a one-step impairment test, in which the goodwill impairment charge is based on the amount by which the carrying amount exceeds the reporting unit's fair value; however, the loss recognized should not exceed the total amount of goodwill allocated to that reporting unit. An entity still has the option to perform the qualitative assessment for a reporting unit to determine if the quantitative impairment test is necessary. The guidance should be applied on a prospective basis with the nature of and reason for the change in accounting principle disclosed upon transition. The guidance is effective for annual or any interim goodwill impairment tests in fiscal years beginning after December 15, 2019. Early adoption is permitted. The Company does not expect the adoption of this standard to have a material impact on its financial position or results of operations.

In February 2016, the FASB issued new guidance intended to improve financial reporting for leases. Under the new guidance, a lessee will be required to recognize assets and liabilities for leases with lease terms of more than 12 months. Consistent with current GAAP, the recognition, measurement, and presentation of expenses and cash flows arising from a lease by a lessee primarily will depend on its classification, which for lessees, will be defined as either financing or operating leases under the new guidance. However, unlike current GAAP, which only requires recognition of capital leases on the balance sheet, the new guidance requires that both types of leases be recognized on the balance sheet. The new guidance will require additional disclosures to help investors and other financial statement users better understand the amount, timing, and uncertainty of cash flows arising from leases. These disclosures include qualitative and quantitative requirements, and additional information about the amounts recorded in the financial statements.

The new guidance on leases became effective for public companies for fiscal years, and interim periods within those fiscal years, beginning after December 15, 2018. The Company adopted this new standard effective January 1, 2019, using the modified retrospective method. Prior period information will not be restated. The cumulative effect of initially applying the guidance is recognized as an adjustment to retained earnings at January 1, 2019. The Company has elected to apply the set of practical expedients at transition, which among other things, allows the Company to carry forward historical lease classifications. As a practical expedient, the Company elected an accounting policy not to separate non-lease components from lease components and instead, account for these components as a single lease component. The Company has made an accounting policy election not to recognize right-of-use assets and lease liabilities for leases, that at the commencement date, are for 12 months or less. Substantially all of the Company's leases are operating leases.

The Company expects to recognize a lease liability of approximately \$1.8 billion and a corresponding right-of-use asset ("ROU asset") of approximately \$1.6 billion, including the reclassification of approximately \$200 million of unamortized lease incentives and restructuring liabilities, upon the adoption of this standard, with minimal impact on the consolidated statement of income.

### 2. Revenue

2018 - Under the New Revenue Recognition Standard

In May 2014, the Financial Accounting Standards Board ("FASB") issued new accounting guidance related to revenue from contracts with customers. The core principle of the guidance is that an entity should recognize revenue to depict the transfer of promised goods or services to customers in an amount that reflects the consideration to which the entity expects to be entitled in exchange for those goods or services. To achieve that principle, the entity applies the following steps: identify the contract(s) with the customer, identify the performance obligations in the contract(s), determine the transaction price, allocate the transaction price to the performance obligations in the contract and recognize revenue when (or as) the entity satisfies a performance obligation.

The Company adopted the new guidance effective January 1, 2018, using the modified retrospective method, which applies the new guidance beginning in the year of adoption, with the cumulative effect of initially applying the guidance recognized as an adjustment to retained earnings at January 1, 2018. The Company elected to apply the modified retrospective method to all contracts. The comparative financial information included herein has not been restated and continues to be reported under the legacy accounting standards that were in effect for those periods.

In the first quarter of 2018, the Company recorded an increase to the opening balance of retained earnings of \$364 million to reflect the cumulative effect of adopting this revenue standard. Other revenue included in the consolidated statements of income that is not from contracts with customers is approximately 1% of total revenue, and therefore is not presented as a separate line item.

As discussed in more detail below, the adoption of this new revenue standard shifted income among quarters from historical patterns, but did not have a significant year-over-year impact on annual revenue.

## Risk and Insurance Services

Risk and Insurance Services revenue reflects compensation for brokerage and consulting services through commissions and fees. Commission rates and fees vary in amount and can depend upon a number of factors, including the type of insurance or reinsurance coverage provided, the particular insurer or reinsurer selected, and the capacity in which the broker acts and negotiates with clients. For the majority of the insurance and reinsurance brokerage arrangements, advice and services provided which culminate in the placement of an effective policy are considered a single performance obligation. Arrangements with clients may include the placement of a single policy, multiple policies or a combination of policy placements and other services. Consideration related to such "bundled arrangements" is allocated to the individual performance obligations based on their relative fair value. Revenue for policy placement is generally recognized on the policy effective date, at which point control over the services provided by the Company has transferred to the client and the client has accepted the services. In many cases, fee compensation may be negotiated in advance, based on the type of risk, coverage required and service provided by the Company and ultimately, the extent of the risk placed into the insurance market or retained by the client. The trends and comparisons of revenue from one period to the next can be affected by changes in premium rate levels, fluctuations in client risk retention and increases or decreases in the value of risks that have been insured, as well as new and lost business, and the volume of business from new and existing clients. For such arrangements, revenue is recognized using output measures, which correspond to the progress toward completing the performance obligation. Fees for non-risk transfer services provided to clients are recognized over time in the period the services are provided, using a proportional performance model, primarily based on input measures. These measures of progress pro

Revenue related to reinsurance brokerage for excess of loss ("XOL") treaties is estimated based on contractually specified minimum or deposit premiums, and adjusted as additional evidence of the ultimate amount of brokerage is received. Revenue for quota share treaties is estimated based on indications of estimated premium income provided by the ceding insurer. The estimated brokerage revenue recognized for quota share treaties is constrained to an amount that is probable to not have a significant negative adjustment. The estimated revenue and the constraint are evaluated as additional evidence of the ultimate amount of underlying risks to be covered is received over the 12 to 18 months following the effective date of the placement.

In addition to commissions and fees from its clients, the Company also receives other compensation from insurance companies. This other insurer compensation includes, among other things, payments for consulting and analytics services provided to insurers, fees for administrative and other services provided to or on behalf of insurers (including services relating to the administration and management of quota shares, panels and other facilities in which insurers participate). The Company is also eligible for certain contingent commissions from insurers based on the attainment of specified metrics (i.e., volume and loss ratio measures) relating to Marsh's placements, particularly in Marsh & McLennan Agency ("MMA") and in parts of Marsh's international operations. Revenue for contingent commissions from insurers is estimated based on historical evidence of the achievement of the respective contingent metrics and recorded as the underlying policies that contribute to the achievement of the metric are placed. Due to the uncertainty of the amount of contingent consideration that will be received, the estimated revenue is constrained to an amount that is probable to not have a significant negative adjustment. Contingent consideration is generally received in the first quarter of the subsequent year.

A significant majority of the Company's Risk and Insurance Services revenue is for performance obligations recognized at a point in time. Marsh and Guy Carpenter also receive interest income on certain funds (such as premiums and claims proceeds) held in a fiduciary capacity for others.

Insurance brokerage commissions are generally invoiced on the policy effective date. Fee based arrangements generally include a percentage of the total fee due upon signing the arrangement, with additional fixed installments payable over the remainder of the year. Payment terms range from receipt of invoice up to 30 days from invoice date.

Reinsurance brokerage revenue is recognized on the effective date of the treaty. Payment terms depend on the type of reinsurance. For XOL treaties, brokerage revenue is typically collected in four installments during an annual treaty period based on a contractually specified minimum or deposit premium. For proportional or quota share treaties, brokerage is billed as underlying insured risks attach to the reinsurance treaty, generally over 12 to 18 months.

### Consulting

The major component of revenue in the Consulting business is fees paid by clients for advice and services. Mercer, principally through its health line of business, also receives revenue in the form of commissions received from insurance companies for the placement of group (and occasionally individual) insurance contracts, primarily health, life and accident coverages. Revenue for Mercer's investment management business and certain of Mercer's defined benefit administration services consists principally of fees based on assets under delegated management or administration.

Consulting projects in Mercer's wealth and career businesses, as well as consulting projects in Oliver Wyman typically consist of a single performance obligation, which is recognized over time as control is transferred continuously to customers. Typically, revenue is recognized over time using an input measure of time expended to date relative to total estimated time to be incurred at project completion. Incurred hours represent services rendered and thereby faithfully depicts the transfer of control to the customer.

On a limited number of engagements, performance fees may also be earned for achieving certain prescribed performance criteria. Revenue for achievement is estimated and constrained to an amount that is probable to not have a significant negative adjustment.

A significant majority of fee revenues in the Consulting segment is recognized over time.

For consulting projects, Mercer generally invoices monthly in arrears with payment due within 30 days of the invoice date. Fees for delegated management services are either deducted from the net asset value of the fund or invoiced to the client on monthly or quarterly basis in arrears. Oliver Wyman typically bills its clients 30-60 days in arrears with payment expected within 30 days upon receipt of the invoice.

Health brokerage and consulting services are components of both Marsh, which includes MMA, and Mercer, with approximately 70% of such revenues reported in Mercer. Health contracts typically involve a series of distinct services that are treated as a single performance obligation. Revenue for these services is recognized over time based on the amount of remuneration the Company expects to be entitled in exchange for these services. Payments for health brokerage and consulting services are typically paid monthly in arrears from carriers based on insured lives under the contract.

The following schedule disaggregates various components of the Company's revenue:

	Twelve Months Ended December 31,				
	2018		2017		
Marsh:					
EMEA	\$ 2,132	\$	2,033		
Asia Pacific	683		645		
Latin America	400		404		
Total International	3,215		3,082		
U.S./Canada	3,662		3,322		
Total Marsh	6,877		6,404		
Guy Carpenter	1,286		1,187		
Subtotal	8,163		7,591		
Fiduciary interest income	65		39		
Total Risk and Insurance Services	\$ 8,228	\$	7,630		
Mercer:					
Defined Benefit Consulting & Administration	\$ 1,279	\$	1,381		
Investment Management & Related Services	906		767		
Total Wealth	2,185		2,148		
Health	1,735		1,648		
Career	812		732		
Total Mercer	4,732		4,528		
Oliver Wyman	2,047		1,916		
Total Consulting	\$ 6,779	\$	6,444		

Note: The 2017 information is prior to the adoption of ASC 606.

The following schedule provides contract assets and contract liabilities information from contracts with customers.

(In millions)	December 31, 2018	January 1, 2018
Contract Assets	\$ 112 \$	128
Contract Liabilities	\$ <b>545</b> \$	583

The Company records accounts receivable when the right to consideration is unconditional, subject only to the passage of time. Contract assets primarily relate to quota share reinsurance brokerage and contingent insurer revenue. The Company does not have the right to bill and collect revenue for quota share brokerage until the underlying policies written by the ceding insurer attach to the treaty. Estimated contingent insurer revenue related to achievement of volume or loss ratio metrics cannot be billed or collected until all related policy placements are completed and the contingency is resolved. The change in contract assets from January 1, 2018 to December 31, 2018 is primarily due to \$331 million of additions during the period offset by \$347 million transferred to accounts receivables, as the rights to bill and collect became unconditional. Contract assets are included in other current assets in the Company's consolidated balance sheet. Contract liabilities primarily relate to the advance consideration received from customers. Contract liabilities are included in current liabilities in the Company's consolidated balance sheet. Revenue recognized in 2018 that was included in the contract liability balance at the beginning of the year was \$582 million. The amount of revenue recognized in 2018 from performance obligations satisfied in previous periods, mainly due to variable consideration from contracts with insurers, quota share business and consulting contracts previously considered constrained was \$51 million.

The Company applies the practical expedient and therefore does not disclose the value of unsatisfied performance obligations for (1) contracts with original contract terms of one year or less and (2) contracts where the Company has the right to invoice for services performed. The revenue expected to be recognized in future periods during the non-cancellable term of existing contracts greater than one year that is related to performance obligations that are unsatisfied or partially satisfied at the end of the reporting period is approximately \$32 million for Marsh, \$486 million for Mercer and \$2 million for Oliver Wyman. The Company expects revenue in 2019, 2020, 2021, 2022 and 2023 and beyond of \$221 million, \$141 million, \$86 million, \$53 million and \$19 million, respectively, related to these performance obligations.

### Costs to Obtain and Fulfill a Contract

Under the new standard, certain costs to obtain or fulfill a contract that were previously expensed as incurred have been capitalized.

The Company capitalized the incremental costs to obtain contracts primarily related to commissions or sales bonus payments in both segments. These deferred costs are amortized over the expected life of the underlying customer relationships.

In Risk and Insurance Services, the Company capitalizes certain pre-placement costs that are considered fulfillment costs that meet the following criteria: these costs 1) relate directly to a contract, 2) enhance resources used to satisfy the Company's performance obligation and 3) are expected to be recovered through revenue generated by the contract. These costs are amortized at a point in time when the associated revenue is recognized.

In Consulting, the Company incurs implementation costs necessary to facilitate the delivery of the contracted services. These costs are capitalized and amortized over the initial contract term plus expected renewal periods.

At December 31, 2018, the Company's capitalized assets related to deferred implementation costs, costs to obtain and costs to fulfill were \$41 million, \$206 million and \$227 million, respectively. Costs to obtain and deferred implementation costs are primarily included in other assets and costs to fulfill are primarily included in other current assets in the Company's consolidated balance sheet. The Company recorded amortization of compensation and benefits expense of \$998 million in the year ended December 31, 2018 related to these capitalized costs.

A significant portion of deferred costs to fulfill in Risk and Insurance Services is amortized within three to six months. Therefore, the deferral of the cost and its amortization often occur in the same annual period.

The Company has elected to use the practical expedient and recognizes the incremental costs of obtaining contracts as an expense when incurred if the amortization period of the assets is one year or less.

### 2017 - Revenue Recognized Under Guidance in Effect Prior to 2018

Risk and Insurance Services revenue includes insurance commissions, fees for services rendered and interest income on certain fiduciary funds. Insurance commissions and fees for risk transfer services generally were recorded as of the effective date of the applicable policies or, in certain cases (primarily in the Company's reinsurance broking operations), as of the effective date or billing date, whichever is later. A reserve for policy cancellation was provided based on historic and current data on cancellations. Consideration for fee arrangements covering multiple insurance placements, the provision of risk management and/or other services was allocated to all deliverables on the basis of the relative selling prices. Fees for non-risk transfer services provided to clients are recognized over the period in which the services are provided, using a proportional performance model. Fees resulting from achievement of certain performance thresholds are recorded when such levels are attained and such fees are not subject to forfeiture.

In the Consulting segment, the adoption of the new revenue standard did not have a significant impact on the timing of revenue recognition in either the quarters or the year-over-year annual period.

See Note 1 for further discussion on the impact the new revenue recognition standard has on the Company's consolidated statements of income when comparing the 2018 financial information versus 2017.

# 3. Supplemental Disclosures

The following schedule provides additional information concerning acquisitions, interest and income taxes paid:

(In millions of dollars)	2018	2017	2016
Assets acquired, excluding cash	\$ 1,100	\$ 898	\$ 960
Liabilities assumed	(83)	(134)	(111)
Contingent/deferred purchase consideration	(133)	(109)	(36)
Net cash outflow for acquisitions	\$ 884	\$ 655	\$ 813
(In millions of dollars)	2018	2017	2016
Interest paid	\$ 264	\$ 199	\$ 178
Income taxes paid, net of refunds	\$ 632	\$ 583	\$ 642

The classification of contingent consideration payments in the consolidated statement of cash flows is dependent upon whether the payment was part of the initial liability established on the acquisition date (financing) or an adjustment to the acquisition date liability (operating). Deferred payments are classified as financing activities in the consolidated statements of cash flows.

The following amounts are included in the consolidated statements of cash flows as a financing activity. The Company paid deferred and contingent consideration of \$117 million in the year ended December 31, 2018, consisting of deferred purchase consideration of \$62 million and contingent purchase consideration of \$55 million. In the year ended December 31, 2017 the Company paid deferred and contingent consideration of \$136 million, consisting of deferred purchase consideration of \$55 million and contingent consideration of \$81 million, and in the year ended December 31, 2016 the Company paid deferred and contingent consideration of \$98 million, consisting of deferred purchase consideration of \$54 million and contingent consideration of \$44 million.

The following amounts are included in the operating section of the consolidated statements of cash flows. For the year ended December 31, 2018, the Company recorded a net charge for adjustments to acquisition related accounts of \$32 million and contingent consideration payments of \$36 million. For the year ended December 31, 2017, the Company recorded a net charge for adjustments to acquisition related accounts of \$3 million and contingent consideration payments of \$27 million, and for the year ended December 31, 2016 the Company recorded a net charge for adjustments to acquisition related accounts of \$9 million and contingent consideration payments of \$42 million.

The Company had non-cash issuances of common stock under its share-based payment plan of \$130 million, \$88 million and \$73 million for the years ended December 31, 2018, 2017 and 2016, respectively. The Company recorded stock-based compensation expense related to restricted stock units, performance stock units and stock options of \$193 million, \$149 million and \$109 million for the years ended December 31, 2018, 2017 and 2016, respectively.

As discussed in Note 1, for the year ended December 31, 2016, the Company recorded an excess tax benefit of \$44 million as an increase to equity in its consolidated balance sheets, which was reflected as cash provided by financing activities in the consolidated statements of cash flows.

An analysis of the allowance for doubtful accounts is as follows:

For the Years Ended December 31,			
(In millions of dollars)	2018	2017	2016
Balance at beginning of year	\$ 110	\$ 96	\$ 87
Provision charged to operations	34	31	31
Accounts written-off, net of recoveries	(24)	(17)	(20)
Effect of exchange rate changes and other	(8)	_	(2)
Balance at end of year	\$ 112	\$ 110	\$ 96

# 4. Other Comprehensive Income (Loss)

The changes in the balances of each component of Accumulated Other Comprehensive Income ("AOCI") for the years ended December 31, 2018 and 2017, including amounts reclassified out of AOCI, are as follows:

(In millions of dollars)	U	nrealized Investment Gains (Losses)	Reti	Pension/Post- irement Plans Gains (Losses)	F	Foreign Currency Translation Adjustments	Total
Balance as of January 1, 2018	\$	14	\$	(2,892)	\$	(1,165)	\$ (4,043)
Cumulative effect of amended accounting standard		(14)		_		_	(14)
Other comprehensive (loss) before reclassifications		_		(205)		(529)	(734)
Amounts reclassified from accumulated other comprehensive loss		_		144		_	144
Net current period other comprehensive (loss)		_		(61)		(529)	(590)
Balance as of December 31, 2018	\$	_	\$	(2,953)	\$	(1,694)	\$ (4,647)
(In millions of dollars)	ι	Jnrealized Investment Gains (Losses)		nsion/Post-Retirement lans Gains (Losses)		Foreign Currency Translation Adjustments	Total
Balance as of January 1, 2017	\$	19	\$	(3,232)	\$	(1,880)	\$ (5,093)
Other comprehensive (loss) income before reclassifications		(5)		160		715	870
Amounts reclassified from accumulated other comprehensive loss		_		180		_	180
Net current period other comprehensive (loss) income		(5)		340		715	1,050
Balance as of December 31, 2017	\$	14	\$	(2,892)	\$	(1,165)	\$ (4,043)

The components of other comprehensive income (loss) are as follows:

For the Years Ended December 31,	2018			
(In millions of dollars)	Р	re-Tax	Tax (Credit)	Net of Tax
Foreign currency translation adjustments	\$	(529) \$	— \$	(529)
Pension/post-retirement plans:				
Amortization of (gains) losses included in net periodic pension cost:				
Prior service credits (a)		(4)	(1)	(3)
Net actuarial losses (a)		145	32	113
Effect of settlement (a)		42	8	34
Subtotal		183	39	144
Net losses arising during period		(374)	(88)	(286)
Foreign currency translation adjustments		141	25	116
Other adjustments		(41)	(6)	(35)
Pension/post-retirement plans losses		(91)	(30)	(61)
Other comprehensive loss	\$	(620) \$	(30) \$	(590)

(a) These components of net periodic pension cost are included in other net benefits credits in the Consolidated Statements of Income. Tax on prior service gains and net actuarial losses is included in income tax expense.

For the Years Ended December 31,		2017	
(In millions of dollars)	Pre-Tax	Tax (Credit)	Net of Tax
Foreign currency translation adjustments	\$ 717 \$	2 \$	715
Unrealized investment losses	(7)	(2)	(5)
Pension/post-retirement plans:			
Amortization of (gains) losses included in net periodic pension cost:			
Prior service credits (a)	(1)	_	(1)
Net actuarial losses (a)	167	30	137
Effect of curtailment (a)	(1)	_	(1)
Effect of settlement (a)	54	9	45
Subtotal	219	39	180
Net gains arising during period	374	62	312
Foreign currency translation adjustments	(201)	(36)	(165)
Other adjustments	16	3	13
Pension/post-retirement plans gains	408	68	340
Other comprehensive income	\$ 1,118 \$	68 \$	1,050

<sup>(</sup>a) These components of net periodic pension cost are included in other net benefits credits in the Consolidated Statements of Income. Tax on prior service gains and net actuarial losses is included in income tax expense.

For the Years Ended December 31,	2016			
(In millions of dollars)	Pre-Tax	Net of Tax		
Foreign currency translation adjustments	\$ (742) \$	36	\$ (778)	
Unrealized investment gains	21	8	13	
Pension/post-retirement plans:				
Amortization of losses included in net periodic pension cost:				
Prior service losses (a)	3	1	2	
Net actuarial losses (a)	166	46	120	
Subtotal	169	47	122	
Effect of curtailment	102	38	64	
Net losses arising during period	(855)	(175)	(680)	
Foreign currency translation adjustments	416	70	346	
Other	49	9	40	
Pension/post-retirement plans losses	(119)	(11)	(108)	
Other comprehensive (loss) income	\$ (840) \$	33	\$ (873)	

<sup>(</sup>a) These components of net periodic pension cost are included in other net benefits credits in the consolidated statements of income. Tax on prior service costs and net actuarial losses is included in income tax expense.

The components of accumulated other comprehensive income (loss) are as follows:

(In millions of dollars)	Dec	December 31, 2018		December 31, 2017
Foreign currency translation adjustments (net of deferred tax asset of \$15 in 2018 and deferred tax liability of \$11 in 2017)	\$	(1,694)	\$	(1,165)
Net unrealized investment gains (net of deferred tax liability of \$7 in 2017)		_		14
Net charges related to pension/post-retirement plans (net of deferred tax asset of \$1,493 and \$1,462 in 2018 and 2017, respectively)		(2,953)		(2,892)
	\$	(4,647)	\$	(4,043)

### 5. Acquisitions/Dispositions

The Company's acquisitions have been accounted for as business combinations. Net assets and results of operations are included in the Company's consolidated financial statements commencing at the respective purchase closing dates. In connection with acquisitions, the Company records the estimated value of the net tangible assets purchased and the value of the identifiable intangible assets purchased, which typically consist of purchased customer lists, trademarks and non-compete agreements. The valuation of purchased intangible assets involves significant estimates and assumptions. Until final valuations are complete, any change in assumptions could affect the carrying value of tangible assets, goodwill and identifiable intangible assets.

The Risk and Insurance Services segment completed twelve acquisitions during 2018.

- · February MMA acquired Highsmith Insurance Agency, a North Carolina-based independent insurance brokerage firm.
- March Marsh acquired Hoken Soken, Inc., a Japan-based insurance agency.
- May Marsh acquired Mountlodge Limited, a Scotland-based independent insurance broker and Lorant Martínez Salas y Compañía Agente de Seguros y de Fianzas, S.A. de C.V., a Mexico-based multi-line insurance broker.
- June MMA acquired Bleakley Insurance Services, a California-based provider of employee benefits solutions; Klein Agency, Inc., a
  Minnesota-based surety and property/casualty agency; and Insurance Associates, Inc., a Maryland-based independent insurance agency.
- · August Marsh acquired John L. Wortham & Son, L.P., a Houston-based independent insurance broker.
- October MMA acquired Eustis Insurance, Inc., a Louisiana-based insurance agency.
- November MMA acquired James P. Murphy & Associates, Inc., a Connecticut-based insurance agency.
- December MMA acquired Otis-Magie Insurance Agency, Inc., a Minnesota-based insurance agency, and Marsh acquired Hector Insurance PCC Ltd, a U.K.-based captive management company.

The Consulting segment completed eight acquisitions during 2018.

- January Oliver Wyman acquired Draw Ltd., a U.K.-based digital transformation agency.
- March Oliver Wyman acquired 8Works Limited, a U.K.-based design thinking consultancy.
- May Mercer acquired EverBe SAS, a France-based Workday implementer and advisory firm; and Evolve Intelligence Pty Ltd., an Australia-based talent strategy firm.
- June Mercer acquired India Life Capital Private Ltd., an India-based investment advisor.
- November Mercer acquired Induslynk Training Services Private Ltd., an India-based talent assessment company, Pavilion Financial Corp., a Canada-based investment services firm and Summit Strategies Inc., a Missouri-based investment consulting firm.

Total purchase consideration for acquisitions made during 2018 was approximately \$1.04 billion, which consisted of cash paid of \$910 million and deferred purchase and estimated contingent consideration of \$133 million. Contingent consideration arrangements are based primarily on EBITDA and/or revenue targets over periods of two to four years. The fair value of the contingent consideration was based on projected revenue and earnings of the acquired entities. Estimated fair values of assets acquired and liabilities assumed are subject to adjustment when purchase accounting is finalized. During 2018, the Company also paid \$62 million of deferred purchase consideration and \$91 million of contingent consideration related to acquisitions made in prior years.

The following table presents the preliminary allocation of the acquisition cost to the assets acquired and liabilities assumed, based on their fair values:

2018
\$ 910
133
\$ 1,043
\$ 26
49
4
8
405
626
8
1,126
37
46
83
\$ 1,043
\$

Other intangible assets acquired are based on initial estimates and subject to change based on final valuations during the measurement period post acquisition date. The following chart provides information of other intangible assets acquired during 2018:

	Amount	Weighted Average Amortization Period
Client relationships	\$ 378	13 years
Other (a)	27	5 years
	\$ 405	

(a) Primarily non-compete agreements, trade names and developed technology.

## Prior Year Acquisitions

During 2017, the Risk and Insurance Services segment completed 7 acquisitions.

- January Marsh & McLennan Agency ("MMA") acquired J. Smith Lanier & Co. ("JSL"), a privately held insurance brokerage firm providing insurance, risk management, and employee benefits solutions to businesses and individuals throughout the U.S.
- February MMA acquired iaConsulting, a Texas-based employee benefits consulting firm.
- March MMA acquired Blakestad, Inc., a Minnesota-based private client and commercial lines insurance agency, and RJF Financial Services, a Minnesota-based retirement advisory firm.
- · May MMA acquired Insurance Partners of Texas, a Texas-based employee benefits consulting firm.
- August Marsh acquired International Catastrophe Insurance Managers, LLC, a Colorado-based managing general agent providing
  property catastrophe insurance to business and homeowners, and MMA acquired Hendrick & Hendrick, Inc., a Texas-based insurance
  agency.

The Consulting segment completed 3 acquisitions during 2017.

· August - Mercer acquired Jaeson Associates, a Portugal-based talent management consulting organization.

 December – Mercer acquired Promerit AG, a Germany-based consultancy specializing in HR digitalization and business and HR transformation and BFC Asset Management Co., Ltd., a Japan-based independently owned asset manager, focused on alternative investment strategies.

Total purchase consideration for acquisitions made during 2017 was approximately \$777 million, which consisted of cash paid of \$668 million and deferred purchase and estimated contingent consideration of \$109 million. Contingent consideration arrangements are based primarily on EBITDA and/or revenue targets over periods of two to four years. The fair value of the contingent consideration was based on projected revenue and earnings of the acquired entities. Estimated fair values of assets acquired and liabilities assumed are subject to adjustment when purchase accounting is finalized. During 2017, the Company also paid \$55 million of deferred purchase consideration and \$108 million of contingent consideration related to acquisitions made in prior years.

### Pro-Forma Information

The following unaudited pro-forma financial data gives effect to the acquisitions made by the Company during 2018, 2017 and 2016. In accordance with accounting guidance related to pro-forma disclosures, the information presented for current year acquisitions is as if they occurred on January 1, 2017 and reflects acquisitions made in 2017 as if they occurred on January 1, 2016. The 2016 information includes 2016 acquisitions as if they occurred on January 1, 2015. The pro-forma information includes the effects of amortization of acquired intangibles. The unaudited proforma financial data is presented for illustrative purposes only and is not necessarily indicative of the operating results that would have been achieved if such acquisitions had occurred on the dates indicated, nor is it necessarily indicative of future consolidated results.

	Years Ended December 31,						
(In millions, except per share data)		2018		2017		2016	
Revenue	\$	15,174	\$	14,440	\$	13,724	
Income from continuing operations	\$	1,680	\$	1,516	\$	1,787	
Net income attributable to the Company	\$	1,660	\$	1,498	\$	1,759	
Basic net income per share:							
<ul> <li>Continuing operations</li> </ul>	\$	3.28	\$	2.92	\$	3.39	
<ul> <li>Net income attributable to the Company</li> </ul>	\$	3.28	\$	2.92	\$	3.39	
Diluted net income per share:							
<ul> <li>Continuing operations</li> </ul>	\$	3.25	\$	2.88	\$	3.36	
<ul> <li>Net income attributable to the Company</li> </ul>	\$	3.25	\$	2.89	\$	3.36	

The consolidated statement of income for 2018 includes approximately \$120 million of revenue and \$2 million of operating income related to acquisitions made during 2018. The consolidated statement of income for 2017 includes approximately \$156 million of revenue and \$19 million of operating income related to acquisitions made during 2017, and the consolidated statement of income for 2016 includes approximately \$25 million of revenue and \$4 million of operating income related to acquisitions made during 2016.

Acquisition-related expenses incurred in 2018 and 2017 were \$7 million and \$3 million, respectively.

## Pending Acquisition

On September 18, 2018, the Company announced that it had reached agreement on the terms of a recommended cash acquisition of Jardine Lloyd Thompson Group plc ("JLT"), a public company organized under the laws of England and Wales (the "Transaction"). JLT is a provider of insurance, reinsurance and employee benefits related advice, brokerage and associated services with annual revenue of approximately \$2 billion and 10,000 colleagues. Under the terms of the Transaction, JLT shareholders will receive £19.15 in cash for each JLT share, which values JLT's existing issued and to be issued share capital at approximately £4.3 billion (or approximately \$5.6 billion based on an exchange rate of U.S. \$1.31:£1). The Company intends to implement the Transaction by way of a scheme of arrangement under Part 26 of the United Kingdom Companies Act 2006, as amended.

On November 7, 2018, the Transaction received the requisite approval of JLT shareholders. The Transaction remains subject to conditions and certain further terms, including, among others, (i) the sanction of the Transaction by the High Court of Justice in England and Wales, (ii) completion of the Transaction no later than December 31, 2019 and (iii) the receipt of certain antitrust, regulatory and other approvals. Subject to the satisfaction or waiver of all relevant conditions, the Transaction is expected to be completed in the spring of 2019.

Financing and hedging activities related to the Transaction are discussed in more detail in Notes 11 and 13 of the consolidated financial statements.

#### Dispositions

In September 2018, Marsh completed its sale of a risk management software and services business resulting in a pre-tax gain of \$46 million, which is included in revenue in the consolidated statement of income.

In December 2015, Mercer sold its U.S. defined contribution recordkeeping business. The Company recognized a pre-tax gain of \$6 million in 2016 from this transaction, which is included in revenue in the consolidated statements of income in that year.

### 6. Goodwill and Other Intangibles

The Company is required to assess goodwill and any indefinite-lived intangible assets for impairment annually, or more frequently if circumstances indicate impairment may have occurred. The Company performs the annual impairment assessment for each of its reporting units during the third quarter of each year. In accordance with applicable accounting guidance, the Company assesses qualitative factors to determine whether it is necessary to perform the two-step goodwill impairment test. As part of its assessment, the Company considers numerous factors, including that the fair value of each reporting unit exceeds its carrying value by a substantial margin based on its most recent estimates, whether significant acquisitions or dispositions occurred which might alter the fair value of its reporting units, macroeconomic conditions and their potential impact on reporting unit fair values, actual performance compared with budget and prior projections used in its estimation of reporting unit fair values, industry and market conditions, and the year-over-year change in the Company's share price. The Company completed its qualitative assessment in the third quarter of 2018 and concluded that a two-step goodwill impairment test was not required in 2018 and that goodwill was not impaired.

Other intangible assets that are not deemed to have an indefinite life are amortized over their estimated lives and reviewed for impairment upon the occurrence of certain triggering events in accordance with applicable accounting literature. The Company concluded that these intangible assets are not impaired.

Changes in the carrying amount of goodwill are as follows:

(In millions of dollars)	2018	2017
Balance as of January 1, as reported	\$ 9,089	\$ 8,369
Goodwill acquired	626	551
Other adjustments <sup>(a)</sup>	(116)	169
Balance at December 31,	\$ 9,599	\$ 9,089

<sup>(</sup>a) Primarily due to the impact of foreign exchange in both years.

The goodwill acquired of \$626 million in 2018 (approximately \$359 million of which is deductible for tax purposes) is comprised of \$402 million related to the Risk and Insurance Services segment and \$224 million related to the Consulting segment.

Goodwill allocable to the Company's reportable segments is as follows: Risk and Insurance Services, \$6.8 billion and Consulting, \$2.8 billion.

The gross cost and accumulated amortization at December 31, 2018 and 2017 are as follows:

(In millions of dollars)		2018			2017	
	Gross Cost	Accumulated Amortization	Net Carrying Amount	Gross Cost	Accumulated Amortization	Net Carrying Amount
Client relationships	\$ 1,970	\$ 639	\$ 1,331	\$ 1,672	\$ 518	\$ 1,154
Other (a)	259	153	106	234	114	120
Amortized intangibles	\$ 2,229	\$ 792	\$ 1,437	\$ 1,906	\$ 632	\$ 1,274

<sup>(</sup>a) Primarily non-compete agreements, trade names and developed technology.

Aggregate amortization expense was \$183 million for the year ended December 31, 2018, \$169 million for the year ended December 31, 2017 and \$130 million for the year ended December 31, 2016. The estimated future aggregate amortization expense is as follows:

For the Years Ending December 31,	
(In millions of dollars)	
2019	\$ 195
2020	176
2021	164
2022	149
2023	141
Subsequent years	612
	\$ 1,437

## 7. Income Taxes

For financial reporting purposes, income before income taxes includes the following components:

For the Years Ended December 31,			
(In millions of dollars)	2018	2017	2016
Income before income taxes:			
U.S.	\$ 460	\$ 819	\$ 725
Other	1,784	1,824	1,755
	\$ 2,244	\$ 2,643	\$ 2,480
The expense for income taxes is comprised of:			
Current –			
U.S. Federal	\$ 82	\$ 313	\$ 208
Other national governments	449	388	366
U.S. state and local	82	36	43
	613	737	617
Deferred –			
U.S. Federal	(30)	286	26
Other national governments	(1)	72	32
U.S. state and local	(8)	38	10
	(39)	396	68
Total income taxes	\$ 574	\$ 1,133	\$ 685

The significant components of deferred income tax assets and liabilities and their balance sheet classifications are as follows:

December 31,		
(In millions of dollars)	2018	2017
Deferred tax assets:		
Accrued expenses not currently deductible	\$ 526	\$ 369
Differences related to non-U.S. operations (a)	170	139
Accrued U.S. retirement benefits	406	394
Net operating losses (b)	48	67
Income currently recognized for tax	20	49
Other	16	31
	\$ 1,186	\$ 1,049

Deferred tax liabilities:		
Differences related to non-U.S. operations	\$ 287	\$ 235
Depreciation and amortization	342	338
Accrued retirement & postretirement benefits - non-U.S. operations	171	172
Capitalized expenses currently recognized for tax	78	_
Other	49	16
	\$ 927	\$ 761

- (a) Net of valuation allowances of \$21 million in 2018 and \$18 million in 2017.
- (b) Net of valuation allowances of \$45 million in 2018 and \$11 million in 2017.

December 31,		
(In millions of dollars)	2018	2017
Balance sheet classifications:		
Deferred tax assets	\$ 680	\$ 669
Other liabilities	\$ 421	\$ 381

Taxes are not provided on the excess of the amount for financial reporting over the tax basis of investments in foreign subsidiaries that are essentially permanent in duration, which, at December 31, 2018, the Company estimates amounted to approximately \$2.3 billion. The determination of the unrecognized deferred tax liability with respect to these investments is not practicable.

A reconciliation from the U.S. Federal statutory income tax rate to the Company's effective income tax rate is shown below:

For the Years Ended December 31,	2018	2017	2016
U.S. Federal statutory rate	21.0 %	35.0 %	35.0 %
U.S. state and local income taxes—net of U.S. Federal income tax benefit	2.3	1.5	1.5
Differences related to non-U.S. operations	3.3	(8.6)	(9.2)
U.S. Tax Reform	(0.3)	17.4	_
Equity compensation	(1.0)	(2.6)	_
Other	0.3	0.2	0.3
Effective tax rate	25.6 %	42.9 %	27.6 %

The Company's consolidated effective tax rate was 25.6%, 42.9% and 27.6% in 2018, 2017 and 2016, respectively. The tax rate in 2017 and 2016 reflects foreign operations, which were generally taxed at rates lower than the U.S. statutory tax rate. The effective tax rate in 2017 reflects a provisional estimate of

the impact of the enactment of the TCJA, as well as the impact of the required change in accounting for equity awards.

The TCJA provided for a transition to a new method of taxing non-U.S. based operations via a transition tax on undistributed earnings of non-U.S. subsidiaries. The Company recorded a provisional charge of \$240 million in the fourth quarter of 2017 as an estimate of U.S. transition taxes and ancillary effects, including state taxes and foreign withholding taxes related to the change in permanent reinvestment status with respect to our pre-2018 foreign earnings. This transition tax is payable over eight years. The reduction of the U.S. corporate tax rate from 35% to 21% reduced the value of the U.S. deferred tax assets and liabilities; accordingly, a charge of \$220 million was recorded. Adjustments during 2018 to the provisional estimates of transition taxes and U.S. deferred tax assets and liabilities decreased income tax expense by \$5 million. These amounts are now final.

Prior to 2017, the Company considered most unremitted earnings of its non-U.S. subsidiaries, except amounts repatriated in the year earned, to be permanently reinvested and, accordingly, recorded no deferred U.S. income taxes on such earnings. As a result of the transition tax, the Company has begun repatriating most of the accumulated pre-2018 earnings that were previously intended to be permanently re-invested. We continue to evaluate our global investment and repatriation strategy in light of U.S. tax reform under the new quasi-territorial tax regime for future foreign earnings.

Valuation allowances had net increases of \$36 million and \$9 million in 2018 and 2017, respectively and a net decrease of \$8 million in 2016. Adjustments of the beginning of the year balances of valuation allowances increased income tax expense by \$1 million and \$11 million in 2018 and 2017, respectively, and decreased income tax expense by \$7 million in 2016. Approximately 53% of the Company's net operating loss carryforwards expire from 2019 through 2037, and others are unlimited. The potential tax benefit from net operating loss carryforwards at the end of 2018 comprised federal, state and local, and non-U.S. tax benefits of \$3 million, \$42 million and \$57 million, respectively, before reduction for valuation allowances.

The realization of deferred tax assets depends on generating future taxable income during the periods in which the tax benefits are deductible or creditable. Tax liabilities are determined and assessed jurisdictionally by legal entity or filing group. Certain taxing jurisdictions allow or require combined or consolidated tax filings. The Company assessed the realizability of its deferred tax assets. The Company considered all available evidence, including the existence of a recent history of losses, placing particular weight on evidence that could be objectively verified. A valuation allowance was recorded to reduce deferred tax assets to the amount that the Company believes is more likely than not to be realized.

Following is a reconciliation of the Company's total gross unrecognized tax benefits for the years ended December 31, 2018, 2017 and 2016:

(In millions of dollars)	2018	2017	2016
Balance at January 1,	\$ 71	\$ 65	\$ 74
Additions, based on tax positions related to current year	6	1	2
Additions for tax positions of prior years	6	14	6
Reductions for tax positions of prior years	_	(6)	(6)
Settlements	(2)	_	(7)
Lapses in statutes of limitation	(3)	(3)	(4)
Balance at December 31,	\$ 78	\$ 71	\$ 65

Of the total unrecognized tax benefits at December 31, 2018, 2017 and 2016, \$64 million, \$56 million and \$53 million, respectively, represent the amount that, if recognized, would favorably affect the effective tax rate in any future periods. The total gross amount of accrued interest and penalties at December 31, 2018, 2017 and 2016, before any applicable federal benefit, was \$15 million, \$12 million and \$11 million, respectively.

The Company is routinely examined by the jurisdictions in which it has significant operations. In the U.S. federal jurisdiction the Company participates in the Internal Revenue Service's (IRS) Compliance

Assurance Process (CAP), which is structured to conduct real-time compliance reviews. The IRS is currently examining the Company's 2016 and 2017 tax returns and is performing a pre-filing review of 2018. In 2018, the Company settled its federal audit for the year 2015.

During 2018, New York State and New York City closed the examination of tax years 2007 through 2009. New York State and New York City have examinations underway for various entities covering the years 2009 through 2014. Outside the United States, there are ongoing examinations in Italy for the tax year 2015, Canada of tax years 2013 through 2016, and in Singapore for the tax years 2014 through 2016. During 2018, the United Kingdom concluded an examination of tax years 2014 and 2015, and an examination of year 2016 is ongoing. During 2018, examinations in Germany for the years 2009 through 2012, and in France for the years 2011 and 2012 were concluded. The Company regularly considers the likelihood of assessments in each of the taxing jurisdictions resulting from examinations. The Company has established liabilities for uncertain tax positions in relation to the potential assessments. The Company believes the resolution of tax matters will not have a material effect on the consolidated financial position of the Company, although a resolution of tax matters could have a material impact on the Company's net income or cash flows and on its effective tax rate in a particular future period. It is reasonably possible that the total amount of unrecognized tax benefits will decrease between zero and approximately \$10 million within the next twelve months due to settlement of audits and expiration of statutes of limitation.

## 8. Retirement Benefits

The Company maintains qualified and non-qualified defined benefit pension plans for its U.S. and non-U.S. eligible employees. The Company's policy for funding its tax qualified defined benefit retirement plans is to contribute amounts at least sufficient to meet the funding requirements set forth by U.S. law and the laws of the non-U.S. jurisdictions in which the Company offers defined benefit plans.

## Combined U.S. and non-U.S. Plans

The weighted average actuarial assumptions utilized for the U.S. and significant non-U.S. defined benefit plans and postretirement benefit plans are as follows:

	Pension Benefits		Postretirement Benefits		
	2018	2017	2018	2017	
Weighted average assumptions:					
Discount rate (for expense)	3.07%	3.40%	3.21%	3.64%	
Expected return on plan assets	5.83%	6.64%	_	_	
Rate of compensation increase (for expense)	1.73%	1.77%	_	_	
Discount rate (for benefit obligation)	3.48%	3.07%	3.65%	3.21%	
Rate of compensation increase (for benefit obligation)	1.74%	1.73%	_	_	

The Company uses actuaries from Mercer, a subsidiary of the Company, to perform valuations of its pension plans. The long-term rate of return on plan assets assumption is determined for each plan based on the facts and circumstances that exist as of the measurement date, and the specific portfolio mix of each plan's assets. The Company utilizes a model developed by the Mercer actuaries to assist in the determination of this assumption. The model takes into account several factors, including: actual and target portfolio allocation; investment, administrative and trading expenses incurred directly by the plan trust; historical portfolio performance; relevant forward-looking economic analysis; and expected returns, variances and correlations for different asset classes. These measures are used to determine probabilities using standard statistical techniques to calculate a range of expected returns on the portfolio. Generally, the Company does not adjust the rate of return assumption from year to year if, at the measurement date, it is within the range between the 25th and 75th percentile of the expected long-term annual returns. Historical long-term average asset returns of the most significant plans are also reviewed to determine whether they are consistent and reasonable compared with the rate selected. The expected return on plan assets is determined by applying the assumed long-term rate of return to the market-

related value of plan assets. This market-related value recognizes investment gains or losses over a five-year period from the year in which they occur. Investment gains or losses for this purpose are the difference between the expected return calculated using the market-related value of assets and the actual return based on the market value of assets. Since the market-related value of assets recognizes gains or losses over a five-year period, the future market-related value of the assets will be impacted as previously deferred gains or losses are reflected.

The target asset allocation for the U.S. Plans is 64% equities and equity alternatives and 36% fixed income. At the end of 2018, the actual allocation for the U.S. Plans was 62% equities and equity alternatives and 38% fixed income. The target asset allocation for the U.K. Plans, which comprise approximately 81% of non-U.S. Plan assets, is 34% equities and equity alternatives and 66% fixed income. At the end of 2018, the actual allocation for the U.K. Plans was 34% equities and equity alternatives and 66% fixed income. The assets of the Company's defined benefit plans are diversified and are managed in accordance with applicable laws and with the goal of maximizing the plans' real return within acceptable risk parameters. The Company uses threshold-based portfolio re-balancing to ensure the actual portfolio remains consistent with target asset allocation ranges.

The discount rate selected for each U.S. plan is based on a model bond portfolio with coupons and redemptions that closely match the expected liability cash flows from the plan. Discount rates for non-U.S. plans are based on appropriate bond indices adjusted for duration; in the U.K., the plan duration is reflected using the Mercer yield curve.

The components of the net periodic benefit cost for defined benefit and other postretirement plans are as follows:

Combined U.S. and significant non-U.S. Plans	Pension Postretirement											
For the Years Ended December 31,	Benefits								В			
(In millions of dollars)		2018		2017		2016		2018		2017		2016
Service cost	\$	34	\$	76	\$	178	\$	1	\$	1	\$	2
Interest cost		463		497		537		3		4		5
Expected return on plan assets		(864)		(921)		(940)		_		_		_
Amortization of prior service (credit) cost		(2)		(2)		(1)		(2)		1		4
Recognized actuarial loss (gain)		146		167		168		(1)		_		(2)
Net periodic benefit (credit) cost	\$	(223)	\$	(183)	\$	(58)	\$	1	\$	6	\$	9
Curtailment (loss) gain		_		(1)		(4)		_		_		_
Settlement loss		42		54		_		_		_		_
Total (credit) cost	\$	(181)	\$	(130)	\$	(62)	\$	1	\$	6	\$	9

As discussed in Note 1, effective January 1, 2018, the Company adopted the new guidance that changes the presentation of net periodic pension cost and net periodic post-retirement cost ("net periodic benefit costs"). The new guidance requires employers to report the service cost component of net periodic benefit costs in the same line item as other compensation costs in the income statement. The other components of net periodic benefit costs are required to be presented in the income statement separately from the service cost component and outside a subtotal of income from operations. The new guidance requires retrospective application for the presentation of the service cost component and the other components of net periodic benefit costs. Accordingly, the Company has reclassified prior period information in the following chart to conform with the current year's presentation:

Amounts Recorded in the Consolidated Statement of In	come	1										
Combined U.S. and significant non-U.S. plans For the Years Ended December 31,			-	ension enefits			Post-retirement Benefits					
(In millions)		2018		2017	2016		2018		2017	2016		
Compensation and benefits expense (Operating income)	\$	34	\$	76 \$	178	\$	1	\$	1 \$	2		
Other net benefit (credit) cost		(215)		(206)	(240)		_		5	7		
Total (credit) cost	\$	(181)	\$	(130) \$	(62)	\$	1	\$	6 \$	9		

### Pension Settlement Charge

Defined Benefit Pension Plans in the U.K. allow participants an option for the payment of a lump sum distribution from plan assets before retirement in full satisfaction of the retirement benefits due to the participant as well as any survivor's benefit. The Company's policy under applicable U.S. GAAP is to treat these lump sum payments as a partial settlement of the plan liability if they exceed the total of interest plus service costs ("settlement thresholds"). Based on the amount of lump sum payments through December 31, 2018, the lump sum payments exceeded the settlement thresholds in two of the U.K. plans. The Company recorded non-cash settlement charges of \$42 million and \$54 million, recorded in the consolidated statements of income for the twelve month periods ended December 31, 2018 and 2017, respectively, primarily related to these plans.

### Plan Assets

For the U.S. Plans, investment allocation decisions are made by a fiduciary committee composed of senior executives appointed by the Company's Chief Executive Officer. For the non-U.S. plans, investment allocation decisions are made by local fiduciaries, in consultation with the Company for the larger plans. Plan assets are invested in a manner consistent with the fiduciary standards set forth in all relevant laws relating to pensions and trusts in each country. Primary investment objectives are (1) to achieve an investment return that, in combination with current and future contributions, will provide sufficient funds to pay benefits as they become due, and (2) to minimize the risk of large losses. The investment allocations are designed to meet these objectives by broadly diversifying plan assets among numerous asset classes with differing expected returns, volatilities, and correlations.

The major categories of plan assets include equity securities, equity alternative investments, and fixed income securities. For the U.S. Plan, the category ranges are 59-69% for equities and equity alternatives, and 31-41% for fixed income. For the U.K. Plans, the category ranges are 31-37% for equities and equity alternatives, and 63-69% for fixed income. Asset allocation is monitored frequently and re-balancing actions are taken as appropriate.

Plan investments are exposed to stock market, interest rate, and credit risk. Concentrations of these risks are generally limited due to diversification by investment style within each asset class, diversification by investment manager, diversification by industry sectors and issuers, and the dispersion of investments across many geographic areas.

## Unrecognized Actuarial Gains/Losses

In accordance with applicable accounting guidance, the funded status of the Company's pension plans is recorded in the consolidated balance sheets and provides for a delayed recognition of actuarial gains or

losses arising from changes in the projected benefit obligation due to changes in the assumed discount rates, differences between the actual and expected value of plan assets and other assumption changes. The unrecognized pension plan actuarial gains or losses and prior service costs not yet recognized in net periodic pension cost are recognized in Accumulated Other Comprehensive Income ("AOCI"), net of tax. These gains and losses are amortized prospectively out of AOCI over a period that approximates the remaining life expectancy of participants in plans where substantially all participants are inactive, or the average remaining service period of active participants for plans with active participants.

U.S. Plans

The following schedules provide information concerning the Company's U.S. defined benefit pension plans and postretirement benefit plans:

	U.S. F Ben	Pensi efits		U.S. Pos Ber	tretire efits	
(In millions of dollars)	2018		2017	2018		2017
Change in benefit obligation:						
Benefit obligation at beginning of year	\$ 6,221	\$	5,894	\$ 36	\$	37
Interest cost	235		264	1		2
Employee contributions	_		_	4		3
Actuarial (gain) loss	(502)		538	(1)		3
Benefits paid	(425)		(475)	(8)		(9)
Benefit obligation, December 31	\$ 5,529	\$	6,221	\$ 32	\$	36
Change in plan assets:						
Fair value of plan assets at beginning of year	\$ 4,787	\$	4,365	\$ 2	\$	2
Actual return on plan assets	(330)		812	_		_
Employer contributions	30		85	3		6
Employee contributions	_		_	4		3
Benefits paid	(425)		(475)	(8)		(9)
Fair value of plan assets, December 31	\$ 4,062	\$	4,787	\$ 1	\$	2
Net funded status, December 31	\$ (1,467)	\$	(1,434)	\$ (31)	\$	(34)
Amounts recognized in the consolidated balance sheets:						
Current liabilities	\$ (28)	\$	(27)	\$ (2)	\$	(2)
Non-current liabilities	(1,439)		(1,407)	(29)		(32)
Net liability recognized, December 31	\$ (1,467)	\$	(1,434)	\$ (31)	\$	(34)
Amounts recognized in other comprehensive income (loss):						
Net actuarial (loss) gain	(1,896)		(1,766)	6		6
Total recognized accumulated other comprehensive (loss) income, December 31	\$ (1,896)	\$	(1,766)	\$ 6	\$	6
Cumulative employer contributions in excess of (less than) net periodic cost	429		332	(37)		(40)
Net amount recognized in consolidated balance sheet	\$ (1,467)	\$	(1,434)	\$ (31)	\$	(34)
Accumulated benefit obligation at December 31	\$ 5,529	\$	6,221	\$ _	\$	

		U.S. B	Per enef			U.S. Po Be	stretii enefits	
(In millions of dollars)		2018		201	7	2018		2017
Reconciliation of prior service credit (cost) recognized in accumulated oth comprehensive income (loss):	er							
Beginning balance	\$	_	\$	_	_ :	\$ <u> </u>	\$	(3)
Recognized as component of net periodic benefit cost		_		_	_	_		3
Prior service cost, December 31	\$	_	\$	_	- ;	\$ <u> </u>	\$	_
		U.S. P Ben				U.S. Pos Ber	tretire nefits	ment
(In millions of dollars)		2018		2017		2018		2017
Reconciliation of net actuarial (loss) gain recognized in accumulated other comprehensive income (loss):	r							
Beginning balance	\$	(1,766)	\$	(1,720)	\$	6	\$	11
Recognized as component of net periodic benefit cost (credit)		55		37		(1)		(1)
Changes in plan assets and benefit obligations recognized in other comprehensive income (loss):								
Other		_		_		_		(1)
Liability experience		502		(538)		1		(3)
Asset experience		(687)		455		_		
Total (loss) gain recognized as change in plan assets and benefit obligations		(185)		(83)		1		(4)
Net actuarial (loss) gain, December 31	\$	(1,896)	\$	(1,766)	\$	6	\$	6

For the Years Ended December 31,		6. Pension Benefits		U.S. Postretirement Benefits				
(In millions of dollars)	2018	2017	2016	2018		2017		2016
Total recognized in net periodic benefit cost and other comprehensive loss (income)	\$ 63	\$ (10)	\$ 31	\$ _	\$	5	\$	2

Estimated amounts that will be amortized from accumulated other comprehensive loss to net periodic pension cost in the next fiscal year:

	S. Pension Benefits	U.S. Postretirement Benefits	
(In millions of dollars)	2019		2019
Net actuarial loss	\$ 44	\$	1

The weighted average actuarial assumptions utilized in determining the above amounts for the U.S. defined benefit and other U.S. postretirement plans as of the end of the year are as follows:

	U.S. Pensi Benefits		U.S. Postretirement Benefi				
	2018	2017	2018	2017			
Weighted average assumptions:							
Discount rate (for expense)	3.86%	4.58%	3.67%	4.12%			
Expected return on plan assets	7.95%	7.95%	_	_			
Discount rate (for benefit obligation)	4.45%	3.86%	4.24%	3.67%			

The projected benefit obligation, accumulated benefit obligation and aggregate fair value of plan assets for U.S. pension plans with accumulated benefit obligations in excess of plan assets were \$5.5 billion, \$5.5 billion and \$4.1 billion, respectively, as of December 31, 2018 and \$6.2 billion, \$6.2 billion and \$4.8 billion, respectively, as of December 31, 2017.

The projected benefit obligation and fair value of plan assets for U.S. pension plans with projected benefit obligations in excess of plan assets was \$5.5 billion and \$4.1 billion, respectively, as of December 31, 2018 and \$6.2 billion and \$4.8 billion, respectively, as of December 31, 2017.

As of December 31, 2018, the U.S. qualified plan holds 4 million shares of the Company's common stock which were contributed to the qualified plan by the Company in 2005. This represented approximately 7.9% of that plan's assets as of December 31, 2018.

The components of the net periodic benefit cost (credit) for the U.S. defined benefit and other postretirement benefit plans are as follows:

U.S. Plans only For the Years Ended December 31,		-	ension enefits			stretirement Benefits	
(In millions of dollars)	2018		2017	2016	2018	2017	2016
Service cost	\$ 	\$	_	\$ 106	\$ _	\$ — \$	_
Interest cost	235		264	264	1	2	2
Expected return on plan assets	(357)		(357)	(379)	_	_	_
Amortization of prior service cost	_		_	_	_	3	4
Recognized actuarial loss (gain)	55		37	74	(1)	(1)	(2)
Net periodic benefit (credit) cost	\$ (67)	\$	(56)	\$ 65	\$ _	\$ 4 \$	4

In October 2016, the Company modified its U.S. defined benefit pension plans to discontinue further benefit accruals for participants after December 31, 2016. At the same time, the Company amended its U.S. defined contribution retirement plans for most of its U.S. employees to add an automatic Company contribution equal to 4% of eligible base pay beginning on January 1, 2017. This new Company contribution, together with the Company's matching contribution, provides eligible U.S. employees with the opportunity to receive a total contribution of up to 7% of eligible base pay. As required under GAAP, the defined benefit plans that were significantly impacted by the modification were re-measured in October 2016 using market data and assumptions as of the modification date. The net periodic pension expense recognized in 2016 reflects the weighted average costs of the December 31, 2015 measurement and the October 2016 re-measurement. In addition, the Company's two U.S. qualified plans were merged effective December 30, 2016.

The assumed health care cost trend rate for Medicare eligibles and non-Medicare eligibles is approximately 6.19% in 2018, gradually declining to 4.5% in 2039. Assumed health care cost trend rates have a small effect on the amounts reported for the U.S. health care plans because the Company caps its share of health care trend at 5%. A one percentage point change in assumed health care cost trend rates would have no effect on the total service and interest cost components or the postretirement benefit obligation.

## Estimated Future Contributions

The Company expects to contribute approximately \$28 million to its U.S. plans in 2019. The Company's policy for funding its tax-qualified defined benefit retirement plans is to contribute amounts at least sufficient to meet the funding requirements set forth in the U.S. and applicable foreign law.

Non-U.S. Plans

The following schedules provide information concerning the Company's non-U.S. defined benefit pension plans and non-U.S. postretirement benefit plans:

	Non-U.S Ber	. Per		Nor Postretiren	i-U.S.	
(In millions of dollars)	2018		2017	2018		2017
Change in benefit obligation:						
Benefit obligation at beginning of year	\$ 10,053	\$	9,670	\$ 68	\$	81
Service cost	34		76	1		1
Interest cost	228		233	2		2
Employee contributions	2		7	_		_
Actuarial (gain) loss	(450)		(149)	(8)		_
Plan amendments	44		_	_		(17)
Effect of settlement	(162)		(211)	_		_
Effect of curtailment	_		(1)	_		_
Benefits paid	(290)		(291)	(3)		(3)
Foreign currency changes	(491)		703	(3)		4
Other	1		16	_		_
Benefit obligation, December 31	\$ 8,969	\$	10,053	\$ 57	\$	68
Change in plan assets:						
Fair value of plan assets at beginning of year	\$ 11,388	\$	10,017	\$ _	\$	_
Actual return on plan assets	(141)		875	_		_
Effect of settlement	(162)		(211)	_		_
Company contributions	82		229	3		3
Employee contributions	2		7	_		_
Benefits paid	(290)		(291)	(3)		(3)
Foreign currency changes	(573)		749	_		_
Other	_		13	_		_
Fair value of plan assets, December 31	\$ 10,306	\$	11,388	\$ _	\$	_
Net funded status, December 31	\$ 1,337	\$	1,335	\$ (57)	\$	(68)
Amounts recognized in the consolidated balance sheets:						
Non-current assets	\$ 1,687	\$	1,684	\$ _	\$	_
Current liabilities	(5)		(6)	(3)		(4)
Non-current liabilities	(345)		(343)	(54)		(64)
Net asset (liability) recognized, December 31	\$ 1,337	\$	1,335	\$ (57)	\$	(68)
Amounts recognized in other comprehensive (loss) income:						
Prior service credit	\$ (2)	\$	43	\$ 12	\$	15
Net actuarial loss	(2,568)		(2,646)	(1)		(10)
Total recognized accumulated other comprehensive (loss) income, December 31	\$ (2,570)	\$	(2,603)	\$ 11	\$	5
Cumulative employer contributions in excess of (less than) net periodic cost	3,907		3,938	(68)		(73)
Net asset (liability) recognized in consolidated balance sheets, December 31	\$ 1,337	\$	1,335	\$ (57)	\$	(68)
Accumulated benefit obligation, December 31	\$ 8,752	\$	9,783	\$ 	\$	
<u> </u>			·			

		IN	Be	enefits			Pos		nent Ber	efits	
(In millions of dollars)		1	2018			2017	:	2018			2017
Reconciliation of prior service credit (cost) recognized in accumulated other comprehensive income (loss):											
Beginning balance	\$		43	\$		43	\$	15	\$		_
Recognized as component of net periodic benefit credit:											
Amortization of prior service credit			(2)			(2)		(2)			(2)
Effect of curtailment			_			(1)		_			_
Total recognized as component of net periodic benefit credit			(2)			(3)		(2)			(2)
Changes in plan assets and benefit obligations recognized in other comprehensive income:											
Plan amendments			(44)			_		_			17
Exchange rate adjustments			1			3		(1)			_
Prior service credit, December 31	\$		(2)	\$		43	\$	12	\$		15
		No	n-U.S Ber	6. Per	nsion		Pos		n-U.S. ment Bei	nefits	
(In millions of dollars)		2	2018			2017		2018			2017
Reconciliation of net actuarial (loss) gain recognized in accumulated other comprehensive (loss) income:											
Beginning balance	\$	(2	,646)	\$		(3,081)	\$	(10)	\$		(11)
Recognized as component of net periodic benefit cost:		•	•			,					, ,
Amortization of net loss			91			130		_			1
Effect of settlement			42			54		_			_
Total recognized as component of net periodic benefit credit			133			184		_			1
Changes in plan assets and benefit obligations recognized in other comprehensive income (loss):											
Liability experience			450			149		8			_
Asset experience			(648)			311		_			_
Other			3			(5)		_			_
Effect of curtailment			_			1		_			_
Total amount recognized as change in plan assets and benefit obligations			(195)			456		8			_
Exchange rate adjustments			140			(205)		1			_
Net actuarial loss, December 31	\$	(2	,568)	\$		(2,646)	\$	(1)	\$		(10)
		Non-	U.S. I	Pensi	on		Non	-U.S. F	Postretire	ment	
For the Years Ended December 31,			Bene				 		enefits		
(In millions of dollars)	20	)18	2	017		2016	2018		2017		2016
Total recognized in net periodic benefit cost and other comprehensive (income)											
loss \$	(1	147) \$	(	513)	\$	21	\$ (5)	\$	(14)	\$	10
		94									

Non-U.S. Pension

Non-U.S.

Estimated amounts that will be amortized from accumulated other comprehensive loss to net periodic pension cost in the next fiscal year:

	Non-U.S. Pension		Non-U.S.
	Benefits		Postretirement Benefits
(In millions of dollars)	20	19	2019
Prior service credit	\$	_ :	\$ (2)
Net actuarial loss		59	_
Projected cost	\$	59	\$ (2)

The weighted average actuarial assumptions utilized for the non-U.S. defined and postretirement benefit plans as of the end of the year are as follows:

	Non-U.S. Pens Benefits	sion	Non-U.S. Postretirement B	enefits
	2018	2017	2018	2017
Weighted average assumptions:				
Discount rate (for expense)	2.58%	2.69%	2.97%	3.42%
Expected return on plan assets	4.94%	6.07%	_	_
Rate of compensation increase (for expense)	2.80%	2.85%	<del>-</del>	_
Discount rate (for benefit obligation)	2.89%	2.58%	3.32%	2.97%
Rate of compensation increase (for benefit obligation)	2.82%	2.80%	_	_

The projected benefit obligation, accumulated benefit obligation and fair value of plan assets for the non-U.S. pension plans with accumulated benefit obligations in excess of plan assets were \$1.7 billion, \$1.6 billion and \$1.3 billion, respectively, as of December 31, 2018 and \$1.3 billion, \$1.2 billion and \$1.0 billion, respectively, as of December 31, 2017.

The projected benefit obligation and fair value of plan assets for non-U.S. pension plans with projected benefit obligations in excess of plan assets was \$1.9 billion and \$1.6 billion, respectively, as of December 31, 2018 and \$2.2 billion and \$1.9 billion, respectively, as of December 31, 2017.

## Non-U.S. Plan Amendments

In March 2017, the Company modified its defined benefit pension plans in Canada to discontinue further benefit accruals for participants after December 31, 2017 and replaced them with a defined contribution arrangement. The Company also amended its post-retirement benefits plan in Canada so that individuals who retire after April 1, 2019 will not be eligible to participate, except in certain situations. The Company re-measured the assets and liabilities of the plans, based on assumptions and market conditions on the amendment date.

## Components of Net Periodic Benefits Costs

The components of the net periodic benefit cost for the non-U.S. defined benefit and other postretirement benefit plans and the curtailment, settlement and termination expenses are as follows:

For the Years Ended December 31,	Non-U.S. Pension Non-U.S. Pension						 Postretire enefits			
(In millions of dollars)	2018		2017		2016		2018	2017		2016
Service cost	\$ 34	\$	76	\$	72	\$	1	\$ 1	\$	2
Interest cost	228		233		273		2	2		3
Expected return on plan assets	(507)		(564)		(561)		_	_		_
Amortization of prior service credit	(2)		(2)		(1)		(2)	(2)		_
Recognized actuarial loss	91		130		94		_	1		_
Net periodic benefit (credit) cost	(156)		(127)		(123)		1	2		5
Settlement loss	42		54		_		_	_		_
Curtailment (gain) loss	_		(1)		(4)		_	_		_
Total (credit) cost	\$ (114)	\$	(74)	\$	(127)	\$	1	\$ 2	\$	5

The non-U.S. pension credit in 2018 and 2017 includes the impact of the pension settlement charges in the U.K., as previously discussed.

The assumed health care cost trend rate was approximately 5.09% in 2018, gradually declining to 4.46% in 2026. Assumed health care cost trend rates can have a significant effect on the amounts reported for the non-U.S. health care plans. A one percentage point change in assumed health care cost trend rates would have the following effects:

(In millions of dollars)	1 Percentage Point Increase	1 Percentage Point Decrease
Effect on total of service and interest cost components	\$ _	\$ _
Effect on postretirement benefit obligation	\$ 6	\$ (5)

### Estimated Future Contributions

The Company expects to contribute approximately \$65 million to its non-U.S. pension plans in 2019. Funding requirements for non-U.S. plans vary by country. Contribution rates are generally based on local funding practices and requirements, which may differ significantly from measurements under U.S. GAAP. Funding amounts may be influenced by future asset performance, the level of discount rates and other variables impacting the assets and/or liabilities of the plan. Discretionary contributions may also be affected by alternative uses of the Company's cash flows, including dividends, investments and share repurchases.

In the U.K., the assumptions used to determine pension contributions are the result of legally-prescribed negotiations between the Company and the plans' trustee that typically occurs every three years in conjunction with the actuarial valuation of the plans. Currently, this results in a lower funded status than under U.S. GAAP and may result in contributions irrespective of the U.S. GAAP funded status. In November 2016, the Company and the Trustee of the U.K. Defined Benefits Plans agreed to a funding deficit recovery plan for the U.K. defined benefit pension plans. The current agreement with the Trustee sets out the annual deficit contributions which would be due based on the deficit at December 31, 2015. The funding level is subject to re-assessment, in most cases on November 1 of each year. If the funding level on November 1 is sufficient, no deficit funding contributions will be required in the following year, and the contribution amount will be deferred. The funding level was re-assessed on November 1, 2018 and no deficit funding contributions are required in 2019. The funding level will be re-assessed on November 1, 2019. As part of a long-term strategy, which depends on having greater influence over asset allocation and overall investment decisions, in November 2016 the Company renewed its agreement to support annual deficit contributions by the U.K. operating companies under certain circumstances, up to GBP 450 million over a seven-year period.

## Estimated Future Benefit Payments

The estimated future benefit payments for the Company's pension and postretirement benefit plans are as follows:

For the Years Ended December 31,		nsion nefits		Postretirement Benefits					
(In millions of dollars)	U.S.		Non-U.S.	U.S.		Non-U.S.			
2019	\$ 264	\$	272	\$ 4	\$	3			
2020	\$ 277	\$	282	\$ 4	\$	3			
2021	\$ 291	\$	291	\$ 4	\$	3			
2022	\$ 299	\$	302	\$ 3	\$	3			
2023	\$ 306	\$	320	\$ 3	\$	3			
2024-2028	\$ 1,626	\$	1,768	\$ 12	\$	15			

## Defined Benefit Plans Fair Value Disclosures

The U.S. and non-U.S. plan investments are classified into Level 1, which refers to investments valued using quoted prices from active markets for identical assets; Level 2, which refers to investments not traded on an active market but for which observable market inputs are readily available; Level 3, which refers to investments valued based on significant unobservable inputs; and NAV, which refers to investments valued using net asset value as a practical expedient. Assets and liabilities are classified in their entirety based on the lowest level of input that is significant to the fair value measurement.

The following table sets forth, by level within the fair value hierarchy, a summary of the U.S. and non-U.S. plans' investments measured at fair value on a recurring basis at December 31, 2018 and 2017:

			Fair Value Meas	urem	ents at December 3	31, 2	018	
Assets (In millions of dollars)	Activ for	ed Prices in ve Markets Identical Assets Level 1)	Significant Other Observable Inputs (Level 2)		Significant Unobservable Inputs (Level 3)		NAV	Total
Common/collective trusts	\$	291	\$ _	\$	_	\$	5,329	\$ 5,620
Corporate obligations		_	3,673		_		_	3,673
Corporate stocks		2,046	33		1		_	2,080
Private equity/partnerships		_	_		_		921	921
Government securities		15	535		_		_	550
Real estate		_	_		_		563	563
Short-term investment funds		286	_		_		_	286
Company common stock		319	_		<del>-</del>		_	319
Other investments		13	20		333		_	366
Total investments	\$	2,970	\$ 4,261	\$	334	\$	6,813	\$ 14,378

			Fair Value Meas	urem	nents at December 3	31, 2	017	
Assets (In millions of dollars)	Act fo	ted Prices in ive Markets r Identical Assets (Level 1)	Significant Other Observable Inputs (Level 2)		Significant Unobservable Inputs (Level 3)		NAV	Total
Common/collective trusts	\$	375	\$ _	\$	_	\$	7,611	\$ 7,986
Corporate obligations		_	3,620		20		_	3,640
Corporate stocks		1,467	34		2		_	1,503
Private equity/partnerships		_	_		_		803	803
Government securities		15	556		_		_	571
Real estate		_	_		_		566	566
Short-term investment funds		391	16		_		_	407
Company common stock		326	_		_		_	326
Other investments		12	12		350		_	374
Total investments	\$	2,586	\$ 4,238	\$	372	\$	8,980	\$ 16,176

The tables below set forth a summary of changes in the fair value of the plans' Level 3 assets for the years ended December 31, 2018 and December 31, 2017:

Assets (In millions)	Fair Value, January 1, 2018	Purchases		Sa	ıles	Unrealized Gain/ (Loss)	Realized Gain/ (Loss)	Exchange Rate Impact	Transfers in/(out) and Other	De	Fair Value, ecember 31, 2018
Other investments	\$ 350	\$	20	\$	(19)	\$ (5)	\$ 1	\$ (14)	\$ _	\$	333
Corporate stocks	2		_		_	_	_	_	(1)		1
Corporate obligations	20		_		_	_	_	_	(20)		_
Total assets	\$ 372	\$	20	\$	(19)	\$ (5)	\$ 1	\$ (14)	\$ (21)	\$	334

Assets (In millions)	air Value, anuary 1, 2017	Purchases	es Sales		les	Unrealized Gain/ (Loss)			Realized Gain/ (Loss)	Exchange Rate Impact	Transfers in/(out) and Other	Fair Value, December 31, 2017		
Other investments	\$ 312	\$	20	\$	(15)	\$	(7)	\$	_	\$ 40	\$ _	\$	350	
Corporate stocks	2		_		_		_		_	_	_		2	
Corporate obligations	9		9		(1)		9		_	1	(7)		20	
Total assets	\$ 323	\$	29	\$	(16)	\$	2	\$	_	\$ 41	\$ (7)	\$	372	

The following is a description of the valuation methodologies used for assets measured at fair value:

Company common stock: Valued at the closing price reported on the New York Stock Exchange.

Common stocks, preferred stocks, convertible equity securities, rights/warrants and real estate investment trusts (included in Corporate stocks): Valued at the closing price reported on the primary exchange.

Corporate bonds (included in Corporate obligations): The fair value of corporate bonds is estimated using recently executed transactions, market price quotations (where observable) and bond spreads. The spread data used are for the same maturity as the bond. If the spread data does not reference the issuer, then data that references a comparable issuer are used. When observable price quotations are not available, fair value is determined based on cash flow models.

Commercial mortgage-backed and asset-backed securities (included in Corporate obligations): Fair value is determined using discounted cash flow models. Observable inputs are based on trade and quote activity of bonds with similar features including issuer vintage, purpose of underlying loan (first or second lien), prepayment speeds and credit ratings. The discount rate is the combination of the appropriate rate from the benchmark yield curve and the discount margin based on quoted prices.

Common/Collective trusts: Valued at the net asset value of units of a bank collective trust. The net asset value as provided by the trustee, is used as a practical expedient to estimate fair value. The net asset value is based on the fair value of the underlying investments held by the fund less its liabilities. This practical expedient is not used when it is determined to be probable that the fund will sell the investment for an amount different than the reported net asset value.

U.S. government bonds (included in Government securities): The fair value of U.S. government bonds is estimated by pricing models that utilize observable market data including quotes, spreads and data points for yield curves.

U.S. agency securities (included in Government securities): U.S. agency securities are comprised of two main categories consisting of agency issued debt and mortgage pass-throughs. Agency issued debt securities are valued by benchmarking market-derived prices to quoted market prices and trade data for identical or comparable securities. Mortgage pass-throughs include certain "To-be-announced" (TBA) securities and mortgage pass-through pools. TBA securities are generally valued using quoted market

prices or are benchmarked thereto. Fair value of mortgage pass-through pools are model driven with respect to spreads of the comparable TBA security.

Private equity and real estate partnerships: Investments in private equity and real estate partnerships are valued based on the fair value reported by the manager of the corresponding partnership and reported on a one quarter lag. The managers provide unaudited quarterly financial statements and audited annual financial statements which set forth the value of the fund. The valuations obtained from the managers are based on various analyses on the underlying holdings in each partnership, including financial valuation models and projections, comparable valuations from the public markets, and precedent private market transactions. Investments are valued in the accompanying financial statements based on the Plan's beneficial interest in the underlying net assets of the partnership as determined by the partnership agreement.

Insurance group annuity contracts: The fair values for these investments are based on the current market value of the aggregate accumulated contributions plus interest earned.

Swap assets (included in Other investments): Fair values for interest rate swaps, equity index swaps and inflation swaps are estimated using a discounted cash flow pricing model. These models use observable market data such as contractual fixed rate, spot equity price or index value and dividend data. The fair values of credit default swaps are estimated using an income approach model which determines expected cash flows based on default probabilities from the issuer-specific credit spread curve and credit loss recovery rates, both of which are dependent on market quotes.

Short-term investment funds: Primarily high-grade money market instruments valued at net asset value at year-end.

Registered investment companies: Valued at the closing price reported on the primary exchange.

### Defined Contribution Plans

The Company maintains certain defined contribution plans for its employees, including the Marsh & McLennan Companies 401(k) Savings & Investment Plan ("401(k) Plan"), that are qualified under U.S. tax laws. Under these plans, eligible employees may contribute a percentage of their base salary, subject to certain limitations. For the 401(k) Plan, the Company matches a fixed portion of the employees' contributions. In addition, as mentioned above, as part of the modification to its U.S. defined benefit pension plans, the Company also amended its U.S. defined contribution retirement plans for most of its U.S. employees to add an automatic Company contribution equal to 4% of eligible base pay beginning on January 1, 2017. The 401(k) Plan contains an Employee Stock Ownership Plan feature under U.S. tax law. Approximately \$444 million of the 401(k) Plan's assets at December 31, 2018 and \$499 million at December 31, 2017 were invested in the Company's common stock. If a participant does not choose an investment direction for his or her future contributions, they are automatically invested in a BlackRock LifePath Portfolio that most closely matches the participant's expected retirement year. The cost of these defined contribution plans was \$133 million in 2018, \$130 million in 2017 and \$53 million in 2016. The increase in cost in 2018 and 2017 as compared to 2016 is primarily due to the additional automatic Company contribution mentioned above. In addition, the Company has a significant defined contribution plan in the U.K. As noted above, effective August 1, 2014, a newly formed defined contribution plan replaced the existing defined contribution and defined benefit plans with regard to future service. The cost of the U.K. defined contribution plan was \$80 million, \$75 million and \$81 million in 2018, 2017 and 2016, respectively.

### 9. Stock Benefit Plans

The Company maintains multiple stock-based payment arrangements under which employees are awarded grants of restricted stock units, stock options and other forms of stock-based benefits.

### Marsh & McLennan Companies, Inc. Incentive and Stock Award Plans

On May 19, 2011, the Marsh & McLennan Companies, Inc. 2011 Incentive and Stock Award Plan (the "2011 Plan") was approved by the Company's stockholders. The 2011 Plan replaced the Company's two previous equity incentive plans (the 2000 Senior Executive Incentive and Stock Award Plan and the 2000 Employee Incentive and Stock Award Plan).

The types of awards permitted under the 2011 Plan include stock options, restricted stock and restricted stock units payable in Company common stock or cash, and other stock-based and performance-based awards. The Compensation Committee of the Board of Directors (the "Compensation Committee") determines, at its discretion, which affiliates may participate in the 2011 Plan, which eligible employees will receive awards, the types of awards to be received, and the terms and conditions thereof. The right of an employee to receive an award may be subject to performance conditions as specified by the Compensation Committee. The 2011 Plan contains a provision which, in the event of a change in control of the Company, may accelerate the vesting of the awards. This provision requires both a change in control of the Company and a subsequent specified termination of employment for vesting to be accelerated.

The 2011 Plan retains the remaining share authority of the two previous plans as of the date the 2011 Plan was approved by stockholders. Thus, approximately 23.2 million shares of common stock, plus shares remaining unused under the previous plans, are available for awards over the life of the 2011 Plan.

The current practice is to grant non-qualified stock options, restricted stock units and/or performance stock units ("PSUs") on an annual basis to senior executives and a limited number of other employees as part of their total compensation. Restricted stock units are also granted to new hires or as retention awards for certain employees. Restricted stock has not been granted since 2005.

Stock Options: Options granted under the 2011 Plan may be designated as either incentive stock options or non-qualified stock options. The Compensation Committee determines the terms and conditions of the option, including the time or times at which an option may be exercised, the methods by which such exercise price may be paid, and the form of such payment. Options are generally granted with an exercise price equal to the market value of the Company's common stock on the date of grant. These option awards generally vest 25% per annum and have a contractual term of 10 years.

The estimated fair value of options granted is calculated using the Black-Scholes option pricing valuation model. This model takes into account several factors and assumptions. The risk-free interest rate is based on the yield on U.S. Treasury zero-coupon issues with a remaining term equal to the expected life assumption at the time of grant. The expected life (estimated period of time outstanding) is estimated using the contractual term of the option and the effects of employees' expected exercise and post-vesting employment termination behavior. The Company uses a blended volatility rate based on the following: (i) volatility derived from daily closing price observations for the 10-year period ended on the valuation date, (ii) implied volatility derived from traded options for the period one week before the valuation date and (iii) average volatility for the 10-year periods ended on 15 anniversaries prior to the valuation date, using daily closing price observations. The expected dividend yield is based on expected dividends for the expected term of the stock options.

The assumptions used in the Black-Scholes option pricing valuation model for options granted by the Company in 2018, 2017 and 2016 are as follows:

	2018	2017	2016
Risk-free interest rate	2.73%	2.09%	1.39%
Expected life (in years)	6.0	6.0	6.0
Expected volatility	23.23%	23.23%	25.55%
Expected dividend yield	1.81%	1.86%	2.15%

A summary of the status of the Company's stock option awards as of December 31, 2018 and changes during the year then ended is presented below:

	Shares	Ave	Weighted erage Exercise Price	Weighted Average Remaining Contractual Term	Aggregate Intrinsic Value (\$000)
Balance at January 1, 2018	10,200,702	\$	47.39		
Granted	1,381,391	\$	83.05		
Exercised	(1,452,879)	\$	33.92		
Forfeited	(161,176)	\$	69.64		
Balance at December 31, 2018	9,968,038	\$	53.94	5.8 years	\$ 258,062
Options vested or expected to vest at December 31, 2018	9,830,816		53.72	5.8 years	256,622
Options exercisable at December 31, 2018	6,321,055	\$	43.78	4.5 years	\$ 224,687

In the above table, forfeited options are unvested options whose requisite service period has not been met. Expired options are vested options that were not exercised. The weighted-average grant-date fair value of the Company's option awards granted during the years ended December 31, 2018, 2017 and 2016 was \$18.29, \$15.01 and \$11.57, respectively. The total intrinsic value of options exercised during the same periods was \$72.9 million, \$195.3 million and \$137.7 million, respectively.

As of December 31, 2018, there was \$17 million of unrecognized compensation cost related to the Company's option awards. The weighted-average period over which that cost is expected to be recognized is approximately 1.24 years. Cash received from the exercise of stock options for the years ended December 31, 2018, 2017 and 2016 was \$46.7 million, \$126.7 million and \$105.4 million, respectively.

The Company's policy is to issue treasury shares upon option exercises or share unit conversion. The Company intends to issue treasury shares as long as an adequate number of those shares is available.

Restricted Stock Units and Performance Stock Units: Restricted stock units may be awarded under the Company's 2011 Incentive and Stock Award Plan. The Compensation Committee determines the restrictions on such units, when the restrictions lapse, when the units vest and are paid, and under what terms the units are forfeited. The cost of these awards is amortized over the vesting period, which is generally three years. Awards to senior executives and other employees may include three-year performance-based restricted stock units and three-year service-based restricted stock units. The payout of performance stock units (payable in shares of the Company's common stock) ranges, generally, from 0-200% of the number of units granted, based on the achievement of objective, pre-determined Company performance measure(s), generally, over a three-year performance period. The Company accounts for these awards as performance condition restricted stock units. The performance condition is not considered in the determination of grant date fair value of such awards. Compensation cost is recognized over the performance period based on management's estimate of the number of units expected to vest and shares to be paid and is adjusted to reflect the actual number of shares paid out at the end of the three-year performance period. Dividend equivalents are not paid out unless and until such time that the award vests.

A summary of the status of the Company's restricted stock units and performance stock units as of December 31, 2018 and changes during the period then ended is presented below:

	Restricted Stoo	Performance Stock Units					
	We	ighted Average Grant Date		Weighted Average Grant			
	Shares	Fair Value	Shares	Date Fair Value			
Non-vested balance at January 1, 2018	4,052,747 \$	66.97	690,601	\$ 62.82			
Granted	2,390,859 \$	83.05	225,736	\$ 83.05			
Vested	(1,796,343) \$	64.22	(173,978)	\$ 57.33			
Forfeited	(317,032) \$	73.81	(43,561)	\$ 69.20			
Non-vested balance at December 31, 2018	4,330,231 \$	76.49	698,798	\$ 70.33			

The weighted-average grant-date fair value of the Company's restricted stock units granted during the years ended December 31, 2017 and 2016 was \$73.23 and \$57.54, respectively. The weighted average grant date fair value of the Company's performance stock units granted during the years ended December 31, 2017 and 2016 was \$73.20 and \$57.47, respectively. The total fair value of the shares distributed during the years ended December 31, 2018, 2017 and 2016 in connection with the Company's non-option equity awards was \$170.3 million, \$117.1 million and \$91.4 million, respectively.

The payout of shares in 2018 with respect to the PSUs awarded in 2015 was 117% of target based on performance for the three-year performance period. In aggregate, 203,590 shares became distributable in respect to PSUs vested in 2018.

As of December 31, 2018, there was \$238.9 million of unrecognized compensation cost related to the Company's restricted stock units and performance stock unit awards. The weighted-average period over which that cost is expected to be recognized is approximately 1.02 years.

## Marsh & McLennan Companies Stock Purchase Plans

In May 1999, the Company's stockholders approved an employee stock purchase plan (the "1999 Plan") to replace the 1994 Employee Stock Purchase Plan (the "1994 Plan"), which terminated on September 30, 1999 following its fifth annual offering. Under the current terms of the Plan, shares are purchased four times during the plan year at a price that is 95% of the average market price on each quarterly purchase date. Under the 1999 Plan, after including the available remaining unused shares in the 1994 Plan and reducing the shares available by 10,000,000 consistent with the Company's Board of Directors' action in March 2007 and the addition of 4,750,000 shares due to a shareholder action in May 2018, no more than 40,350,000 shares of the Company's common stock may be sold. Employees purchased 424,631 shares during the year ended December 31, 2018 and at December 31, 2018, 5,678,536 shares were available for issuance under the 1999 Plan. Under the 1995 Company Stock Purchase Plan for International Employees (the "International Plan"), after reflecting the additional 5,000,000 shares of common stock for issuance approved by the Company's Board of Directors in July 2002, the addition of 4,000,000 shares due to a shareholder action in May 2007 and reducing the shares available by 1,000,000 consistent with the Company's Board of Directors' action in March 2018, no more than 11,000,000 shares of the Company's common stock may be sold. Employees purchased 117,175 shares during the year ended December 31, 2018 and there were 1,374,735 shares available for issuance at December 31, 2018 under the International Plan. The plans are considered non-compensatory.

### 10. Fair Value Measurements

#### Fair Value Hierarchy

The Company has categorized its assets and liabilities that are valued at fair value on a recurring basis into a three-level fair value hierarchy as defined by the FASB. The fair value hierarchy gives the highest priority to quoted prices in active markets for identical assets and liabilities (Level 1) and lowest priority to unobservable inputs (Level 3). In some cases, the inputs used to measure fair value might fall into different levels of the fair value hierarchy. In such cases, the level in the fair value hierarchy, for disclosure purposes, is determined based on the lowest level input that is significant to the fair value measurement. Assets and liabilities recorded in the consolidated balance sheets at fair value are categorized based on the inputs in the valuation techniques as follows:

Level 1. Assets and liabilities whose values are based on unadjusted quoted prices for identical assets or liabilities in an active market (examples include active exchange-traded equity securities and exchange-traded money market mutual funds).

Assets and liabilities using Level 1 inputs include exchange-traded equity securities, exchange-traded mutual funds and money market funds.

## Level 2. Assets and liabilities whose values are based on the following:

- a) Quoted prices for similar assets or liabilities in active markets;
- b) Quoted prices for identical or similar assets or liabilities in non-active markets (examples include corporate and municipal bonds, which trade infrequently);
- c) Pricing models whose inputs are observable for substantially the full term of the asset or liability (examples include most over-the-counter derivatives, including interest rate and currency swaps); and
- d) Pricing models whose inputs are derived principally from or corroborated by observable market data through correlation or other means for substantially the full asset or liability (for example, certain mortgage loans).

Assets and liabilities using Level 2 inputs include treasury locks and an equity security.

Level 3. Assets and liabilities whose values are based on prices, or valuation techniques that require inputs that are both unobservable and significant to the overall fair value measurement. These inputs reflect management's own assumptions about the assumptions a market participant would use in pricing the asset or liability (certain commercial mortgage whole loans, and long-dated or complex derivatives including certain foreign exchange options and long-dated options on gas and power).

Liabilities using Level 3 inputs include liabilities for contingent purchase consideration and the deal contingent foreign exchange contract (the "FX Contract").

## Valuation Techniques

### Equity Securities, Money Market Funds and Mutual Funds - Level 1

Investments for which market quotations are readily available are valued at the sale price on their principal exchange or, for certain markets, official closing bid price. Money market funds are valued using a valuation technique that results in price per share at \$1.00.

### Treasury Locks - Level 2

In connection with the JLT Transaction, to hedge the risk of increases in future interest rates prior to its issuance of fixed rate debt in the fourth quarter of 2018, the Company entered into Treasury locks related to \$2 billion of expected issuances of senior notes in January 2019. The fair value at December 31, 2018 is based on the published treasury rate plus forward premium as of December 31, 2018 compared to the all in rate at the inception of the contract.

## Contingent Purchase Consideration Liability - Level 3

Purchase consideration for some acquisitions made by the Company includes contingent consideration arrangements. These arrangements typically provide for the payment of additional consideration if earnings and revenue targets are met over periods from two to four years. The fair value of contingent consideration is estimated as the present value of future cash flows resulting from the projected revenue and earnings of the acquired entities.

### Foreign Exchange Forward Contract Liabilities - Level 3

In connection with the JLT Transaction, the Company entered into the FX Contract, to hedge the risk of appreciation of the GBP-denominated purchase price. The Company will purchase £5.2 billion at a contracted exchange rate, which is discussed in Note 11. The fair value was determined using the probability distribution approach, comparing the all in forward rate to the foreign exchange rate for possible dates the JLT Transaction is expected to close, discounted to the valuation date and adjusted for the fair value of the deal contingency feature. Determining the fair value of the FX Contract requires significant management judgments or estimates about the potential closing dates of the transaction and remaining value of the deal contingency feature. The fair value related to the deal contingency feature will decrease (and any unrealized loss increase or any unrealized gain decrease) as conditions to the closing are met.

The following fair value hierarchy table presents information about the Company's assets and liabilities measured at fair value on a recurring basis as of December 31, 2018 and 2017:

(In millions of dollars)	Identical Assets (Level 1)				Observa (Le	able evel 2			erva puts vel 3		Total			
	1	2/31/18		12/31/17	12/31/18		12/31/17	12/31/18		12/31/17		12/31/18		12/31/17
Assets:														
Financial instruments owned:														
Exchange traded equity securities (a)	\$	133	\$	81	\$ _	\$	_	\$ _	\$	_	\$	133	\$	81
Mutual funds <sup>(a)</sup>		151		158	_		_	_		_		151		158
Money market funds(b)		118		143	_		_	_		_		118		143
Other equity investment <sup>(a)</sup>		_		_	8		_	_		_		8		_
Total assets measured at fair value	\$	402	\$	382	\$ 8	\$	_	\$ _	\$	_	\$	410	\$	382
Fiduciary Assets:														
Money market funds	\$	80	\$	111	\$ _	\$	_	\$ _	\$	_	\$	80	\$	111
U.S. Treasury Bills		20		_	_		_	_		_		20		_
Total fiduciary assets measured at fair value	\$	100	\$	111	\$ _	\$	_	\$ _	\$	_	\$	100	\$	111
Liabilities:														
Contingent purchase consideration liability <sup>(c)</sup>	\$	_	\$	_	\$ _	\$	_	\$ 183	\$	189	\$	183	\$	189
Acquisition related derivative contracts		_		_	116		_	325		_		441		_
Total liabilities measured at fair value	\$		\$		\$ 116	\$	_	\$ 508	\$	189	\$	624	\$	189

<sup>(</sup>a) Included in other assets in the consolidated balance sheets.

During the year ended December 31, 2018, there were no assets or liabilities that were transferred between any of the levels.

<sup>(</sup>b) Included in cash and cash equivalents in the consolidated balance sheets.

<sup>(</sup>c) Included in accounts payable and accrued liabilities and other liabilities in the consolidated balance sheets.

The table below sets forth a summary of the changes in fair value of the Company's Level 3 liabilities for the years ended December 31, 2018 and December 31, 2017.

(In millions)	2018	2017
Balance at January 1,	\$ 189	\$ 241
Additions	54	51
Payments	(91)	(108)
Revaluation Impact	32	3
Change in fair value of acquisition related derivative contracts	325	_
Other (a)	(1)	2
Balance at December 31,	\$ 508	\$ 189

(a) Primarily reflects the impact of foreign exchange.

The fair value of the contingent purchase consideration liability is based on projections of revenue and earnings for the acquired entities that are reassessed on a quarterly basis. As set forth in the table above, based on the Company's ongoing assessment of the fair value of contingent consideration, the Company recorded a net increase in the estimated fair value of such liabilities for prior period acquisitions of \$32 million for the year ended December 31, 2018. A 5% increase in the above mentioned projections would increase the liability by approximately \$43 million. A 5% decrease in the above mentioned projections would decrease the liability by approximately \$35 million.

#### Long-Term Investments

The Company holds investments in certain private equity investments, public companies and private companies that are accounted for using the equity method of accounting. The carrying value of these investments was \$287 million and \$405 million at December 31, 2018 and 2017, respectively.

### Investments Accounted For Using the Equity Method of Accounting

Investments in Public and Private Companies

Alexander Forbes: The Company owns approximately 33% of the common stock of Alexander Forbes, a South African company listed on the Johannesburg Stock Exchange, which it purchased in 2014 for 7.50 South African Rand per share. The shares of AF had been trading below the Company's carrying value since November of 2017, but had traded within 10% of the Company's carrying value through much of the first quarter of 2018. In May 2018, the trading price declined to 30% to 35% below the Company's cost and remained at the discounted level through the third quarter of 2018. The Company considered several factors in assessing the carrying value of its investment in AF, including its financial position, the near- and long-term prospects of AF and the broader South African economy and capital markets, the length of time and extent to which the market value was below cost and the Company's intent and ability to retain the investment for a sufficient period of time to allow for anticipated recovery in market value. However, based on the duration of time and the extent to which the shares traded below their cost, the Company could not develop sufficient objective evidence to support a recovery of the price in the relatively near future. As such, the Company concluded the decline in value of the investment was other than temporary and recorded a charge of \$83 million in 2018. As of December 31, 2018, the carrying value of the Company's investment in Alexander Forbes was approximately \$144 million. As of December 31, 2018, the market value of the approximately 443 million shares of Alexander Forbes owned by the Company, based on the December 31, 2018 closing share price of 5.14 South African Rand per share, was approximately \$159 million.

The Company has other investments in private insurance and consulting companies with a carrying value of \$61 million and \$63 million at December 31, 2018 and December 31, 2017, respectively.

The Company's investment in Alexander Forbes and its other equity investments in private insurance and consulting companies are accounted for using the equity method of accounting, the results of which are included in revenue in the consolidated income statements and the carrying value of which is included in other assets in the consolidated balance sheets. The Company records its share of income or loss on its equity method investments on a one quarter lag basis.

#### Private Equity Investments

The Company's investments in private equity funds were \$82 million and \$76 million at December 31, 2018 and December 31, 2017, respectively. The carrying values of these private equity investments approximates fair value. The underlying private equity funds follow investment company accounting, where investments within the fund are carried at fair value. The Company records in earnings, investment gains/losses for its proportionate share of the change in fair value of the funds. These investments are included in other assets in the consolidated balance sheets. The Company recorded net investment income of \$16 million and \$14 million for the years ended December 31, 2018 and 2017, respectively, related to these investments.

#### Other Investments

At December 31, 2018 and December 31, 2017 the Company held certain equity investments with readily determinable market values of \$146 million and \$100 million, respectively. During 2018, the Company recorded investment gains of \$54 million, which reflects the increase in the market value of these investments as compared to December 31, 2017. The Company also held investments without readily determinable market values of \$75 million and \$56 million at December 31, 2018 and 2017, respectively. The Company recorded net gains of approximately \$1 million in 2018 and 2017 on these investments.

The summarized financial information presented below reflects the aggregated financial information of all equity method investees as of and for the twelve months ended September 30 of each year (or portion of those twelve months the Company owned its investment), consistent with the Company's recognition of the results of its equity method investments on a one quarter lag. The investment income information presented below reflects the net realized and unrealized gains/losses, net of expenses, related to the Company's investment in Alexander Forbes and several private equity funds. Certain of the Company's equity method investments, including Alexander Forbes, have unclassified balance sheets. Therefore, the asset and liability information presented below are not split between current and non-current.

Below is a summary of the financial information for the Company's equity method investees:

For the Twelve Months Ended September 30,				
(In millions of dollars)	2018		2017	2016
Revenue	\$ 733	\$	628	\$ 843
Net investment income (a)	\$ 1,699	\$	1,834	\$ 1,824
Net income	\$ 554	\$	476	\$ 91
As of September 30,				
(In millions of dollars)		2018		2017
Total assets	\$	24,644	\$	24,739
Total liabilities	\$	22,257	\$	22,817
Non-controlling interests	\$	22	\$	19

(a) Net investment income in 2018, 2017 and 2016 includes approximately \$1.2 billion, \$1.5 billion and \$1.9 billion, respectively, related to Alexander Forbes, substantially all of which is credited to policy holders.

#### 11. Derivatives

On September 20, 2018, the Company entered into the FX Contract for the JLT Transaction, to hedge the risk of appreciation of the GBP-denominated purchase price. The Company will purchase £5.2 billion at a contracted exchange rate. The settlement of the FX Contract is contingent upon the closing of the JLT Transaction. The all in contract exchange rate includes the cost of a liquidity premium (due to the size of the JLT Transaction) and a deal contingent feature, which together increased the exchange rate in the FX Contract to purchase the £5.2 billion by .0343. The all in contract exchange rate is fixed through March 29, 2019, increases by .00016 through June 28, 2019 and by 0.000145 each day thereafter until the JLT Transaction closes.

The FX Contract is measured at fair value and the resulting gain or loss is recorded in the consolidated statements of income. The fair value was determined using the probability distribution approach, comparing the all in forward rate to the foreign exchange rate for possible dates the JLT Transaction is expected to close, discounted to the valuation date and adjusted for the fair value of the deal contingency feature. The fair value will decrease as the GBP depreciates, or increase as the GBP appreciates, relative to the contracted exchange rate. The fair value related to the deal contingency feature will also decrease (and any unrealized loss increase or any unrealized gain decrease) as conditions to the closing are met. An unrealized loss of \$325 million related to the change in fair value of the FX contract was recorded in the consolidated statement of income during 2018 primarily related to the depreciation of the GBP from September 2018. The FX Contract does not qualify for hedge accounting treatment under applicable accounting guidance. The Company expects to record fair value gains or losses, which may be significant, through the consolidated statement of income until the closing of the JLT Transaction.

In connection with the JLT Transaction, to hedge the economic risk of changes in future interest rates prior to its issuance of fixed rate debt, in the fourth quarter of 2018, the Company entered into Treasury locks related to \$2 billion of expected issuances of senior notes in 2019. The fair value at December 31, 2018 is based on the published treasury rate plus forward premium as of December 31, 2018 compared to the all in rate at the inception of the contact. The contracts were not designated as an accounting hedge. The Company recorded an unrealized loss of \$116 million related to the change in the fair value of this derivative in the consolidated statement of income for the twelve months ended December 31, 2018. In January 2019, upon issuance of the \$5 billion of senior notes, the Company settled the treasury lock derivatives and made a payment to its counter party for \$122 million. An additional charge of \$6 million will be recorded in the first quarter of 2019 related to the settlement of the Treasury lock derivatives.

# 12. Long-term Commitments

The Company leases office facilities, equipment and automobiles under non-cancelable operating leases. These leases expire on varying dates, in some instances contain renewal and expansion options, do not restrict the payment of dividends or the incurrence of debt or additional lease obligations, and contain no significant purchase options. In addition to the base rental costs, occupancy lease agreements generally provide for rent escalations resulting from increased assessments for real estate taxes and other charges. Approximately 98% of the Company's lease obligations are for the use of office space.

The consolidated statements of income include net rental costs of \$383 million, \$354 million and \$367 million for 2018, 2017 and 2016, respectively, after deducting rentals from subleases (\$8 million in 2018, \$8 million in 2017 and \$9 million in 2016). These net rental costs exclude rental costs and sublease income for previously accrued restructuring charges related to vacated space.

At December 31, 2018, the aggregate future minimum rental commitments under all non-cancelable operating lease agreements are as follows:

For the Years Ended December 31, (In millions of dollars)	C	Gross Rental Commitments				Net Rental Commitments		
2019	\$	361	\$		32	\$	329	
2020	\$	340	\$		31	\$	309	
2021	\$	277	\$		12	\$	265	
2022	\$	252	\$		10	\$	242	
2023	\$	214	\$		9	\$	205	
Subsequent years	\$	753	\$		32	\$	721	

The Company has entered into agreements, primarily with various service companies, to outsource certain information systems activities and responsibilities and processing activities. Under these agreements, the Company is required to pay minimum annual service charges. Additional fees may be payable depending upon the volume of transactions processed, with all future payments subject to increases for inflation. At December 31, 2018, the aggregate fixed future minimum commitments under these agreements are as follows:

For the Years Ended December 31, (In millions of dollars)	Future Minimum Commitments
2019	\$ 189
2020	37
2021	14
Subsequent years	19
	\$ 259

#### 13. Debt

The Company's outstanding debt is as follows:

December 31,		
(In millions)	2018	2017
Short-term:		
Current portion of long-term debt	314	262
	314	262
Long-term:		
Senior notes – 2.55% due 2018	_	250
Senior notes – 2.35% due 2019	300	299
Senior notes – 2.35% due 2020	499	498
Senior notes – 4.80% due 2021	499	498
Senior notes – 2.75% due 2022	497	496
Senior notes – 3.30% due 2023	348	348
Senior notes – 4.05% due 2023	249	248
Senior notes – 3.50% due 2024	597	596
Senior notes – 3.50% due 2025	496	496
Senior notes – 3.75% due 2026	596	596
Senior notes – 5.875% due 2033	297	297
Senior notes – 4.35% due 2047	492	492
Senior notes – 4.20% due 2048	592	_
Mortgage – 5.70% due 2035	358	370
Other	4	3
	5,824	5,487
Less current portion	314	262
	\$ 5,510	\$ 5,225

The senior notes in the table above are registered by the Company with the Securities and Exchange Commission, and are not guaranteed.

The Company has established a short-term debt financing program of up to \$1.5 billion through the issuance of commercial paper. The proceeds from the issuance of commercial paper are used for general corporate purposes. The Company had no commercial paper outstanding at December 31, 2018.

#### Bridge Loan Financing

On September 18, 2018, the Company entered into a bridge loan agreement to finance the pending JLT acquisition. The bridge loan agreement provides for commitments in the aggregate principal amount of £5.2 billion. Under the bridge loan agreement, any loans will mature 364 days from the date of the first borrowing, and the Company will be required to comply with certain covenants including maintaining an interest coverage ratio and leverage ratio within specified levels. The Company paid approximately \$35 million of customary upfront fees related to the bridge loan at the inception of the loan commitment, of which \$30 million was amortized as interest expense in 2018 based on the period of time the facility is expected to be in effect (including any loans outstanding). Any borrowings under the bridge loan agreement will accrue interest at an annual rate based on the London Interbank Offered Rate for British pounds sterling, plus an applicable margin based on the Company's debt ratings and also increasing over time while loans are outstanding. The Company will also be required to pay a duration fee in an amount equal to 50, 75 and 100 basis points on the principal amount of loans, if any, outstanding on the 90<sup>th</sup>, 180<sup>th</sup> and 270<sup>th</sup> day, respectively, after the first borrowing under the facility, as well as an "unused fee" accruing on the available but unused commitments at a rate that varies with the Company's debt ratings. Unused commitments will be reduced, and loans under the bridge loan agreement prepaid, with the proceeds of certain debt or equity issuances or asset sales. There were no borrowings under the bridge loan agreement at December 31, 2018. The commitments under the bridge loan agreement are expected to be reduced, and any loans thereunder refinanced, with long-term financing.

As discussed below, in January 2019, the Company issued \$5 billion of senior notes which will be used to fund the acquisition of JLT. The commitments under the bridge loan have therefore been reduced by £3.79 billion, due to the issuance of these senior notes.

#### Senior Notes

In October 2018 the Company repaid \$250 million of maturing senior notes.

In March 2018, the Company issued \$600 million of 4.20% senior notes due 2048. The Company used the net proceeds for general corporate purposes.

In January 2017, the Company issued \$500 million of 2.75% senior notes due 2022 and \$500 million of 4.35% senior notes due 2047. The Company used the net proceeds for general corporate purposes, including the repayment of a \$250 million debt maturity in April 2017.

Subsequent Event – In January 2019, the Company issued \$700 million of 3.50% Senior Notes due 2020, \$1.0 billion of 3.875% Senior Notes due 2024, \$1.25 billion of 4.375% Senior Notes due 2029, \$500 million of 4.75% Senior Notes due 2039, \$1.25 billion of 4.90% Senior Notes due 2049 and \$300 million of Floating Rate Senior Notes due 2021. The Company intends to use the net proceeds to fund, in part, the pending acquisition of JLT, including the payment of related fees and expenses, and to repay certain JLT indebtedness, as well as for general corporate purposes.

#### Other Credit Facilities

In October 2018, the Company and certain of its foreign subsidiaries increased its multi-currency five-year unsecured revolving credit facility from \$1.5 billion to \$1.8 billion. The interest rate on this facility is based on LIBOR plus a fixed margin which varies with the Company's credit ratings. This facility expires in October 2023 and requires the Company to maintain certain coverage and leverage ratios which are tested quarterly. There were no borrowings outstanding under this facility at December 31, 2018.

Additional credit facilities, guarantees and letters of credit are maintained with various banks, primarily related to operations located outside the United States, aggregating \$594 million at December 31, 2018 and \$624 million at December 31, 2017. There were no outstanding borrowings under these facilities at December 31, 2018 and December 31, 2017.

Scheduled repayments of long-term debt in 2019 and in the four succeeding years, excluding the debt issued in January, 2019, are \$314 million, \$517 million, \$515 million, \$516 million, and \$616 million, respectively.

#### Fair value of Short-term and Long-term Debt

The estimated fair value of the Company's short-term and long-term debt is provided below. Certain estimates and judgments were required to develop the fair value amounts. The fair value amounts shown

below are not necessarily indicative of the amounts that the Company would realize upon disposition, nor do they indicate the Company's intent or need to dispose of the financial instrument.

	Decembe	er 31	, 2018	Decembe	2017	
(In millions of dollars)	Carrying Amount		Fair Value	Carrying Amount		Fair Value
Short-term debt	\$ 314	\$	313	\$ 262	\$	264
Long-term debt	\$ 5,510	\$	5,437	\$ 5,225	\$	5,444

The fair value of the Company's short-term debt consists primarily of term debt maturing within the next year and its fair value approximates its carrying value. The estimated fair value of a primary portion of the Company's long-term debt is based on discounted future cash flows using current interest rates available for debt with similar terms and remaining maturities. Short- and long-term debt would be classified as Level 2 in the fair value hierarchy.

#### 14. Integration and Restructuring Costs

During the second quarter of 2018, Marsh initiated a program to simplify the organization through reduced management layers and more common structures across regions and businesses to more closely align with its more formalized segmentation strategy across large risk management, middle market corporate, and small commercial & personal segments. These efforts are expected to create increased efficiencies and additional capacity for reinvestment in people and technology. As of December 31, 2018, the Company has incurred restructuring severance and consulting costs of \$96 million related to this initiative.

During the fourth quarter of 2018, Mercer initiated a program to restructure its business to further optimize the way Mercer operates, setting up the Company for a more fluid and nimble structure and operating model for the future. As of December 31, 2018, the Company has incurred restructuring severance and consulting costs of \$51 million related to this initiative.

In addition to the charges discussed above, the Company incurred \$14 million of restructuring costs related to severance and future rent under non-cancelable leases. These costs were incurred in Risk and Insurance Services—\$3 million; Consulting—\$1 million; and Corporate—\$10 million.

Details of the restructuring liability activity from January 1, 2017 through December 31, 2018, including actions taken prior to 2018, are as follows:

(In millions)	Balance at 1/1/17	Expense Incurred	Cash Paid	Other	Balance at 12/31/17	Expense Incurred	Cash Paid	Other	Balance at 12/31/18
Severance	\$ 32	\$ 31	\$ (49)	\$ 1	\$ 15	\$ 137	\$ (77)	\$ (2)	\$ 73
Future rent under non- cancelable leases and other costs	61	9	(22)	2	50	24	(37)	2	39
Total	\$ 93	\$ 40	\$ (71)	\$ 3	\$ 65	\$ 161	\$ (114)	\$ 	\$ 112

As of January 1, 2016, the liability balance related to restructuring activity was \$93 million. In 2016, the Company accrued \$44 million and had cash payments and other adjustments of \$44 million related to restructuring activities that resulted in the liability balance at January 1, 2017 reported above.

The expenses associated with the above initiatives are included in compensation and benefits and other operating expenses in the consolidated statements of income. The liabilities associated with these initiatives are classified on the consolidated balance sheets as accounts payable and accrued liabilities, other liabilities, or accrued compensation and employee benefits, depending on the nature of the items.

#### 15. Common Stock

During 2018, the Company repurchased 8.2 million shares of its common stock for total consideration of \$675 million. In November 2016, the Board of Directors of the Company authorized the Company to repurchase up to \$2.5 billion of the Company's common stock, which superseded any prior authorizations. The Company remains authorized to purchase additional shares of its common stock up to a value of approximately \$866 million. There is no time limit on the authorization. During 2017, the Company purchased 11.5 million shares of its common stock for total consideration of \$900 million.

The Company issued approximately 3.3 million and 5.8 million shares related to stock compensation and employee stock purchase plans during the years ended December 31, 2018 and 2017, respectively.

#### 16. Claims, Lawsuits and Other Contingencies

#### Litigation Matters

The Company and its subsidiaries are subject to a significant number of claims, lawsuits and proceedings in the ordinary course of business. Such claims and lawsuits consist principally of alleged errors and omissions in connection with the performance of professional services, including the placement of insurance, the provision of actuarial services for corporate and public sector clients, the provision of investment advice and investment management services to pension plans, the provision of advice relating to pension buy-out transactions and the provision of consulting services relating to the drafting and interpretation of trust deeds and other documentation governing pension plans. These claims may seek damages, including punitive and treble damages, in amounts that could be significant. In establishing liabilities for errors and omissions claims in accordance with FASB guidance on Contingencies - Loss Contingencies, the Company uses case level reviews by inside and outside counsel, and internal actuarial analysis by Oliver Wyman Group, a subsidiary of the Company, and other methods to estimate potential losses. A liability is established when a loss is both probable and reasonably estimable. The liability is reviewed quarterly and adjusted as developments warrant. In many cases, the Company has not recorded a liability, other than for legal fees to defend the claim, because we are unable, at the present time, to make a determination that a loss is both probable and reasonably estimable. To the extent that expected losses exceed our deductible in any policy year, the Company also records an asset for the amount that we expect to recover under any available third-party insurance programs. The Company has varying levels of third-party insurance coverage, with policy limits and coverage terms varying significantly by policy year.

#### Governmental Inquiries and Enforcement Matters

Our activities are regulated under the laws of the United States and its various states, the European Union and its member states, and the other jurisdictions in which the Company operates.

Risk and Insurance Services Segment

In April 2017, the Financial Conduct Authority in the United Kingdom (the "FCA") commenced a civil competition investigation into the aviation insurance and reinsurance sector. In connection with that investigation, the FCA carried out an on-site inspection at the London office of Marsh Limited, our Marsh and Guy Carpenter operating subsidiary in the United Kingdom. The FCA indicated that it had reasonable grounds for suspecting that Marsh Limited and other participants in the market have been sharing competitively sensitive information within the aviation insurance and reinsurance broking sector.

In October 2017, the Company received a notice that the Directorate-General for Competition of the European Commission had commenced a civil investigation of a number of insurance brokers, including Marsh, regarding "the exchange of commercially sensitive information between competitors in relation to aviation and aerospace insurance and reinsurance broking products and services in the European Economic Area ("EEA"), as well as possible coordination between competitors." In light of the action taken by the European Commission, the FCA informed Marsh Limited at the same time that it has discontinued its investigation under U.K. competition law. In May 2018, the FCA advised that it would not be taking any further action with Marsh Limited in connection with this matter.

In July 2017, the Directorate-General for Competition of the European Commission together with the Irish Competition and Consumer Protection Commission conducted on-site inspections at the offices of Marsh and other industry participants in Dublin in connection with an investigation regarding the "possible

participation in anticompetitive agreements and/or concerted practices contrary to [E.U. competition law] in the market for commercial motor insurance in the Republic of Ireland."

In January 2019, the Company received a notice that the Administrative Council for Economic Defense anti-trust agency in Brazil had commenced an administrative proceeding against a number of insurance brokers, including Marsh, and insurers "to investigate an alleged sharing of sensitive commercial and competitive confidential information" in the aviation insurance and reinsurance sector.

We are cooperating with these investigations and are conducting our own reviews. At this time, we are unable to predict their likely timing, outcome or ultimate impact. There can be no assurance that the ultimate resolution of these or any related matters will not have a material adverse effect on our consolidated results of operations, financial condition or cash flows.

In November 2017, the FCA announced the terms of reference for a market study concerning the wholesale insurance broker sector in the United Kingdom, which affects Marsh and Guy Carpenter. The FCA conducted the study to assess "how effectively competition is working in the wholesale insurance broker sector" and "how brokers influence competition in the underwriting sector." In February 2019, the FCA published its final report and closed the market study, concluding that it had "not found evidence of significant levels of harm that merit the introduction of regulatory intervention."

# Other Contingencies-Guarantees

In connection with its acquisition of U.K.-based Sedgwick Group in 1998, the Company acquired several insurance underwriting businesses that were already in run-off, including River Thames Insurance Company Limited ("River Thames"), which the Company sold in 2001. Sedgwick guaranteed payment of claims on certain policies underwritten through the Institute of London Underwriters (the "ILU") by River Thames. The policies covered by this guarantee were reinsured up to £40 million by a related party of River Thames. Payment of claims under the reinsurance agreement is collateralized by segregated assets held in a trust. As of December 31, 2018, the reinsurance coverage exceeded the best estimate of the projected liability of the policies covered by the guarantee. To the extent River Thames or the reinsurer is unable to meet its obligations under those policies, a claimant may seek to recover from the Company under the guarantee.

From 1980 to 1983, the Company owned indirectly the English & American Insurance Company ("E&A"), which was a member of the ILU. The ILU required the Company to guarantee a portion of E&A's obligations. After E&A became insolvent in 1993, the ILU agreed to discharge the guarantee in exchange for the Company's agreement to post an evergreen letter of credit that is available to pay claims by policyholders on certain E&A policies issued through the ILU and incepting between July 3, 1980 and October 6, 1983. Certain claims have been paid under the letter of credit and the Company anticipates that additional claimants may seek to recover against the letter of credit.

\* \* \*

The pending proceedings described above and other matters not explicitly described in this Note 16 on Claims, Lawsuits and Other Contingencies may expose the Company or its subsidiaries to liability for significant monetary damages, fines, penalties or other forms of relief. Where a loss is both probable and reasonably estimable, the Company establishes liabilities in accordance with FASB guidance on Contingencies - Loss Contingencies. Except as described above, the Company is not able at this time to provide a reasonable estimate of the range of possible loss attributable to these matters or the impact they may have on the Company's consolidated results of operations, financial position or cash flows. This is primarily because these matters are still developing and involve complex issues subject to inherent uncertainty. Adverse determinations in one or more of these matters could have a material impact on the Company's consolidated results of operations, financial condition or cash flows in a future period.

#### 17. Segment Information

The Company is organized based on the types of services provided. Under this structure, the Company's segments are:

- Risk and Insurance Services, comprising insurance services (Marsh) and reinsurance services (Guy Carpenter); and
- Consulting, comprising Mercer and Oliver Wyman Group

The accounting policies of the segments are the same as those used for the consolidated financial statements described in Note 1. Segment performance is evaluated based on segment operating income, which includes directly related expenses, and charges or credits related to integration and restructuring but not the Company's corporate-level expenses. Revenues are attributed to geographic areas on the basis of where the services are performed.

Selected information about the Company's segments and geographic areas of operation are as follows:

				(	Operating				Depreciation		
For the Year Ended December 31, (In millions of dollars)		Revenue			Income (Loss)		Total Assets		and Amortization		Capital Expenditures
2018 –		TREVEITUE			(LU33)		A33013		Amortization		Experialitates
	<b>c</b>	0.000	, ,	•	4.004	•	45.000	•	000	•	450
	\$	•	(a)	\$	1,864	\$	15,868	\$	290	\$	158
Consulting		6,779	(b)		1,099		8,003		130		97
Total Segments		15,007			2,963		23,871		420		255
Corporate/Eliminations		(57)			(202)		(2,293) (c)		74		59
Total Consolidated	\$	14,950		\$	2,761	\$	21,578	\$	494	\$	314
2017 –											
Risk and Insurance Services	\$	7,630	(a)	\$	1,731	\$	16,490	\$	282	\$	139
Consulting		6,444	(b)		1,110		8,200		129		88
Total Segments		14,074			2,841		24,690		411		227
Corporate/Eliminations		(50)			(186)		(4,261) (c)		70		75
Total Consolidated	\$	14,024		\$	2,655	\$	20,429	\$	481	\$	302
2016 –											
Risk and Insurance Services	\$	7,143	(a)	\$	1,581	\$	14,728	\$	248	\$	128
Consulting		6,112	(b)		1,038		6,770		121		68
Total Segments		13,255			2,619		21,498		369		196
Corporate/Eliminations		(44)			(188)		(3,308) (c)		69		57
Total Consolidated	\$	13,211		\$	2,431	\$	18,190	\$	438	\$	253

- (a) Includes inter-segment revenue of \$6 million, \$5 million and \$6 million in 2018, 2017 and 2016, respectively, interest income on fiduciary funds of \$65 million, \$39 million and \$26 million in 2018, 2017 and 2016, respectively, and equity method income of \$13 million, \$14 million and \$12 million in 2018, 2017 and 2016, respectively and \$40 million related to the sale of business in 2018.
- (b) Includes inter-segment revenue of \$51 million, \$45 million and \$38 million in 2018, 2017 and 2016, respectively, interest income on fiduciary funds of \$3 million, \$4 million and \$3 million in 2018, 2017 and 2016, respectively, and equity method income of \$8 million, \$17 million and \$19 million in 2018, 2017 and 2016, respectively.
- (c) Corporate assets primarily include insurance recoverables, pension related assets, the owned portion of the Company headquarters building and intercompany eliminations.

Details of operating segment revenue are as follows:

For the Years Ended December 31,	 		
(In millions of dollars)	2018	2017	2016
Risk and Insurance Services			
Marsh	\$ 6,923	\$ 6,433	\$ 5,997
Guy Carpenter	1,305	1,197	1,146
Total Risk and Insurance Services	8,228	7,630	7,143
Consulting			
Mercer	4,732	4,528	4,323
Oliver Wyman Group	2,047	1,916	1,789
Total Consulting	6,779	6,444	6,112
Total Segments	15,007	14,074	13,255
Corporate/Eliminations	(57)	(50)	(44)
Total	\$ 14,950	\$ 14,024	\$ 13,211
Information by geographic area is as follows:			
For the Years Ended December 31,			
(In millions of dollars)	2018	2017	2016
Revenue			
United States	\$ 7,219	\$ 6,870	\$ 6,573
United Kingdom	2,243	2,112	2,019
Continental Europe	2,694	2,197	2,022
Asia Pacific	1,616	1,517	1,363
Other	1,235	1,378	1,278
	15,007	14,074	13,255
Corporate/Eliminations	(57)	(50)	(44)
Total	\$ 14,950	\$ 14,024	\$ 13,211
For the Years Ended December 31,	0040	0047	0040
(In millions of dollars)	2018	2017	2016
Fixed Assets, Net			
United States	\$ 403	\$ 399	\$ 412
United Kingdom	91	91	94
Continental Europe	59	57	53
Asia Pacific	74	78	76
Other	74	87	90
Total	\$ 701	\$ 712	\$ 725

#### REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Shareholders and the Board of Directors of Marsh & McLennan Companies, Inc.

#### **Opinion on the Financial Statements**

We have audited the accompanying consolidated balance sheets of Marsh & McLennan Companies, Inc. and subsidiaries (the "Company") as of December 31, 2018 and 2017, the related consolidated statements of income, comprehensive income, cash flows, and equity for each of the three years in the period ended December 31, 2018, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2018 and 2017, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2018, in conformity with accounting principles generally accepted in the United States of America.

We have also audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the Company's internal control over financial reporting as of December 31, 2018, based on criteria established in *Internal Control - Integrated Framework (2013)* issued by the Committee of Sponsoring Organizations of the Treadway Commission and our report dated February 21, 2019 expressed an unqualified opinion on the Company's internal control over financial reporting.

#### **Basis for Opinion**

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/ Deloitte & Touche LLP

New York, New York February 21, 2019

We have served as the Company's auditor since 1989.

# Marsh & McLennan Companies, Inc. and Subsidiaries SELECTED QUARTERLY FINANCIAL DATA AND SUPPLEMENTAL INFORMATION (UNAUDITED)

		First	Second	Third	Fourth
	(	Quarter	Quarter	Quarter	Quarter
(In millions, except per share figures)					
2018:					
Revenue	\$	4,000	\$ 3,734	\$ 3,504	\$ 3,712
Operating income	\$	908	\$ 691	\$ 541	\$ 621
Income from continuing operations	\$	696	\$ 536	\$ 279	\$ 159
Net income attributable to the Company	\$	690	\$ 531	\$ 276	\$ 153
Basic Per Share Data:					
Continuing operations	\$	1.36	\$ 1.05	\$ 0.55	\$ 0.30
Discontinued operations, net of tax	\$	_	\$ _	\$ _	\$ _
Net income attributable to the Company	\$	1.36	\$ 1.05	\$ 0.55	\$ 0.30
Diluted Per Share Data:					
Continuing operations	\$	1.34	\$ 1.04	\$ 0.54	\$ 0.30
Discontinued operations, net of tax	\$	_	\$ _	\$ _	\$ _
Net income attributable to the Company	\$	1.34	\$ 1.04	\$ 0.54	\$ 0.30
Dividends Paid Per Share	\$	0.375	\$ 0.375	\$ 0.415	\$ 0.415
2017:					
Revenue	\$	3,503	\$ 3,495	\$ 3,341	\$ 3,685
Operating income	\$	749	\$ 701	\$ 535	\$ 670
Income from continuing operations	\$	578	\$ 507	\$ 397	\$ 28
Discontinued operations, net of tax	\$	_	\$ _	\$ _	\$ 2
Net income attributable to the Company	\$	569	\$ 501	\$ 393	\$ 29
Basic Per Share Data <sup>(a)</sup> :					
Continuing operations	\$	1.10	\$ 0.98	\$ 0.77	\$ 0.05
Discontinued operations, net of tax	\$	_	\$ _	\$ _	\$ 0.01
Net income attributable to the Company	\$	1.10	\$ 0.98	\$ 0.77	\$ 0.06
Diluted Per Share Data <sup>(a)</sup> :					
Continuing operations	\$	1.09	\$ 0.96	\$ 0.76	\$ 0.05
Discontinued operations, net of tax	\$	_	\$ _	\$ _	\$ 0.01
Net income attributable to the Company	\$	1.09	\$ 0.96	\$ 0.76	\$ 0.06
Dividends Paid Per Share	\$	0.34	\$ 0.34	\$ 0.375	\$ 0.375

As of February 18th, 2019, there were 5,063 stockholders of record.

<sup>(</sup>a) Includes the impact of a \$460 million provisional charge related to the enactment of U.S. tax reform.

#### Item 9. Changes in and Disagreements with Accountants on Accounting and Financial Disclosure.

None.

#### Item 9A. Controls and Procedures.

<u>Disclosure Controls and Procedures</u>. Based on their evaluation, as of the end of the period covered by this annual report on Form 10-K, the Company's chief executive officer and chief financial officer have concluded that the Company's disclosure controls and procedures (as defined in Rules 13a-15(e) or 15d-15(e) under the Securities Exchange Act of 1934) are effective.

#### Internal Control over Financial Reporting.

(a) Management's Annual Report on Internal Control Over Financial Reporting

#### MANAGEMENT'S ANNUAL REPORT ON INTERNAL CONTROL OVER FINANCIAL REPORTING

The management of Marsh & McLennan Companies, Inc. is responsible for establishing and maintaining adequate internal control over financial reporting for the Company. The Company's internal control over financial reporting is designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles.

The Company's internal control over financial reporting includes those policies and procedures relating to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the Company; the recording of all necessary transactions to permit the preparation of the Company's consolidated financial statements in accordance with generally accepted accounting principles; the proper authorization of receipts and expenditures in accordance with authorizations of the Company's management and directors; and the prevention or timely detection of the unauthorized acquisition, use or disposition of assets that could have a material effect on the Company's consolidated financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

Management evaluated the effectiveness of the Company's internal control over financial reporting as of December 31, 2018 under the supervision and with the participation of the Company's principal executive and principal financial officers. In making this evaluation, management used the criteria set forth by the Committee of Sponsoring Organizations of the Treadway Commission (COSO) in Internal Control—Integrated Framework issued in 2013. Based on its evaluation, management determined that the Company maintained effective internal control over financial reporting as of December 31, 2018.

Deloitte & Touche LLP, the Independent Registered Public Accounting Firm that audited and reported on the Company's consolidated financial statements included in this annual report on Form 10-K, also issued an audit report on the effectiveness of the Company's internal control over financial reporting as of December 31, 2018.

(b) Audit Report of the Registered Public Accounting Firm.

#### REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Shareholders and the Board of Directors of Marsh & McLennan Companies, Inc.

#### Opinion on Internal Control over Financial Reporting

We have audited the internal control over financial reporting of Marsh & McLennan Companies, Inc. and subsidiaries (the "Company") as of December 31, 2018, based on criteria established in *Internal Control - Integrated Framework (2013)* issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO). In our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of December 31, 2018, based on criteria established in *Internal Control - Integrated Framework (2013)* issued by COSO.

We have also audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the consolidated financial statements as of and for the year ended December 31, 2018 of the Company and our report dated February 21, 2019, expressed an unqualified opinion on those financial statements.

# **Basis for Opinion**

The Company's management is responsible for maintaining effective internal control over financial reporting and for its assessment of the effectiveness of internal control over financial reporting, included in the accompanying Management's Annual Report on Internal Control Over Financial Reporting. Our responsibility is to express an opinion on the Company's internal control over financial reporting based on our audit. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audit in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether effective internal control over financial reporting was maintained in all material respects. Our audit included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, testing and evaluating the design and operating effectiveness of internal control based on the assessed risk, and performing such other procedures as we considered necessary in the circumstances. We believe that our audit provides a reasonable basis for our opinion.

#### Definition and Limitations of Internal Control over Financial Reporting

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

/s/ Deloitte & Touche LLP New York, New York February 21, 2019

# (c) Changes in Internal Control Over Financial Reporting

There were no changes in the Company's internal control over financial reporting identified in connection with the evaluation required by Rules 13a-15(d) or 15d-15(d) under the Securities Exchange Act of 1934 that occurred during the quarter ended December 31, 2018 that have materially affected, or are reasonably likely to materially affect, the Company's internal control over financial reporting.

Item 9B. Other Information.

None.

#### PART III

#### Item 10. Directors, Executive Officers and Corporate Governance.

Information as to the directors and nominees for the board of directors of the Company is incorporated herein by reference to the material set forth under the heading "Item 1: Election of Directors" in the 2019 Proxy Statement.

The executive officers and executive officer appointees of the Company are Peter J. Beshar, John Q. Doyle, Martine Ferland, E. Scott Gilbert, Daniel S. Glaser, Peter Hearn, Laurie Ledford, Scott McDonald, Mark C. McGivney and Julio A. Portalatin. Information with respect to these individuals is provided in Part I, Item 1 above under the heading "Executive Officers of the Company".

The information set forth in the 2019 Proxy Statement in the sections "Corporate Governance—Codes of Conduct", "Board of Directors and Committees—Committees—Audit Committee", "Additional Information—Transactions with Management and Others" and "Additional Information—Section 16(a) Beneficial Ownership Reporting Compliance" is incorporated herein by reference.

#### Item 11. Executive Compensation.

The information set forth in the sections "Board of Directors and Committees—Director Compensation" and "Executive Compensation—Compensation of Executive Officers" in the 2019 Proxy Statement is incorporated herein by reference.

#### Item 12. Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters.

The information set forth in the sections "Additional Information—Stock Ownership of Directors, Management and Certain Beneficial Owners" and "Additional Information—Equity Compensation Plan Information" in the 2019 Proxy Statement is incorporated herein by reference.

#### Item 13. Certain Relationships and Related Transactions, and Director Independence.

The information set forth in the sections "Corporate Governance—Director Independence", "Corporate Governance—Review of Related-Person Transactions" and "Additional Information—Transactions with Management and Others" in the 2019 Proxy Statement is incorporated herein by reference.

#### Item 14. Principal Accountant Fees and Services.

The information set forth under the heading "Item 3: Ratification of Selection of Independent Registered Public Accounting Firm—Fees of Independent Registered Public Accounting Firm" in the 2019 Proxy Statement is incorporated herein by reference.

#### **PART IV**

# Item 15. Exhibits and Financial Statement Schedules. †

The following documents are filed as a part of this report:

(1) Consolidated Financial Statements:

Consolidated Statements of Income for each of the three years in the period ended December 31, 2018

Consolidated Statements of Comprehensive Income for each of the three years in the period ended December 31, 2018

Consolidated Balance Sheets as of December 31, 2018 and 2017

Consolidated Statements of Cash Flows for each of the three years in the period ended December 31, 2018

Consolidated Statements of Shareholders Equity for each of the three years in the period ended December 31, 2018

Notes to Consolidated Financial Statements

Report of Independent Registered Public Accounting Firm

#### Other:

Selected Quarterly Financial Data and Supplemental Information (Unaudited) for fiscal years 2018 and 2017

Five-Year Statistical Summary of Operations

- (2) All required Financial Statement Schedules are included in the Consolidated Financial Statements or the Notes to Consolidated Financial Statements.
- (3) The following exhibits are filed as a part of this report:
- (2.1) Stock Purchase Agreement, dated as of June 6, 2010, by and between Marsh & McLennan Companies, Inc. and Altegrity, Inc. (incorporated by reference to the Company's Quarterly Report on Form 10-Q for the quarter ended June 30, 2010)

(2.2)Rule 2.7 Announcement, dated as of September 18, 2018 (incorporated by reference to the Company's Current Report on Form 8-K dated September 18, 2018)

<sup>&</sup>lt;sup>†</sup>As permitted by Item 601(b)(4)(iii)(A) of Regulation S-K, the Company has not filed with this Form 10-K certain instruments defining the rights of holders of long-term debt of the Company and its subsidiaries because the total amount of securities authorized under any of such instruments does not exceed 10% of the total assets of the Company and its subsidiaries on a consolidated basis. The Company agrees to furnish a copy of any such agreement to the Commission upon request.

- (2.3) Co-operation Agreement, dated as of September 18, 2018, by and among Marsh & McLennan Companies, Inc., MMC Treasury
  Holdings (UK) Limited and Jardine Lloyd Thompson Group plc. (incorporated by reference to the Company's Current Report on
  Form 8-K dated September 18, 2018)
- (3.1)Restated Certificate of Incorporation of Marsh & McLennan Companies, Inc. (incorporated by reference to the Company's Current Report on Form 8-K dated July 17, 2008)
- (3.2) Amended and Restated By-Laws of Marsh & McLennan Companies, Inc. (incorporated by reference to the Company's Current Report on Form 8-K dated January 12, 2017)
- (4.1) <u>Indenture dated as of June 14, 1999 between Marsh & McLennan Companies, Inc. and State Street Bank and Trust Company, as trustee (incorporated by reference to the Company's Registration Statement on Form S-3, Registration No. 333-108566)</u>
- (4.2) Third Supplemental Indenture dated as of July 30, 2003 between Marsh & McLennan Companies, Inc. and U.S. Bank National Association (as successor to State Street Bank and Trust Company), as trustee (incorporated by reference to the Company's Quarterly Report on Form 10-Q for the guarter ended June 30, 2003)
- (4.3) Indenture dated as of March 19, 2002 between Marsh & McLennan Companies, Inc. and State Street Bank and Trust Company, as trustee (incorporated by reference to the Company's Registration Statement on Form S-4, Registration No. 333-87510)
- (4.4) Indenture, dated as of July 15, 2011, between Marsh & McLennan Companies, Inc. and The Bank of New York Mellon, as trustee (incorporated by reference to the Company's Quarterly Report on Form 10-Q for the quarter ended June 30, 2011)
- (4.5) First Supplemental Indenture, dated as of July 15, 2011, between Marsh & McLennan Companies, Inc. and The Bank of New York Mellon, as trustee (incorporated by reference to the Company's Quarterly Report on Form 10-Q for the quarter ended June 30, 2011)
- (4.6) Form of Third Supplemental Indenture between Marsh & McLennan Companies, Inc. and The Bank of New York Mellon, as trustee (incorporated by reference to the Company's Current Report on Form 8-K dated September 24, 2013)
- (4.7) Form of Fourth Supplemental Indenture between Marsh & McLennan Companies, Inc. and The Bank of New York Mellon, as trustee (incorporated by reference to the Company's Current Report on Form 8-K dated May 27, 2014)
- (4.8) Form of Fifth Supplemental Indenture between Marsh & McLennan Companies, Inc. and The Bank of New York Mellon, as trustee (incorporated by reference to the Company's Current Report on Form 8-K dated September 10, 2014)
- (4.9) Sixth Supplemental Indenture, dated as of March 6, 2015, between Marsh & McLennan Companies, Inc. and The Bank of New York Mellon, as trustee (incorporated by reference to the Company's Quarterly Report on Form 10-Q for the quarter ended March 31, 2015)

(4.10) <u>Sev</u>	venth Supplemental Indenture, dated as of September 14, 2015, between Marsh & McLennan Companies, Inc. and The Bank of New
	York Mellon, as trustee (incorporated by reference to the Company's Current Report on Form 8-K filed on September 14,
	<u>2015)</u>
(4.11)	Eighth Supplemental Indenture, dated as of March 14, 2016, between Marsh & McLennan Companies, Inc. and The Bank of New
	York Mellon, as trustee (incorporated by reference to the Company's Quarterly Report on Form 10-Q filed on May 2, 2016)
(4.12)	Ninth Supplemental Indenture, dated as of January 12, 2017, between Marsh & McLennan Companies, Inc. and The Bank of New
	York Mellon, as trustee (incorporated by reference to the Company's Annual Report on Form 10-K filed on February 24, 2017)
(4.13)	Tenth Supplemental Indenture, dated as of March 1, 2018, between Marsh & McLennan Companies, Inc. and The Bank of New
	York Mellon, as trustee (incorporated by reference to the Company's Current Report on Form 8-K filed on March 1, 2018)
(4.14)	Eleventh Supplemental Indenture, dated January 15, 2019, between Marsh & McLennan Companies, Inc. and The Bank of New
	York Mellon, as trustee (incorporated by reference to the Company's Current Report on Form 8-K filed on January 15, 2019)
(10.1)	*Marsh & McLennan Companies, Inc. U.S. Employee 1996 Cash Bonus Award Voluntary Deferral Plan (incorporated by reference
	to the Company's Annual Report on Form 10-K for the year ended December 31, 1996)
(10.2)	*Marsh & McLennan Companies, Inc. U.S. Employee 1997 Cash Bonus Award Voluntary Deferral Plan (incorporated by reference
	to the Company's Annual Report on Form 10-K for the year ended December 31, 1997)
(10.3)	*Marsh & McLennan Companies, Inc. U.S. Employee 1998 Cash Bonus Award Voluntary Deferral Plan (incorporated by reference
	to the Company's Annual Report on Form 10-K for the year ended December 31, 1998)
(10.4)	*Marsh & McLennan Companies, Inc. 2000 Senior Executive Incentive and Stock Award Plan (incorporated by reference to the
	Company's Annual Report on Form 10-K for the year ended December 31, 1999)
(10.5)	*Amendments to Marsh & McLennan Companies, Inc. 2000 Senior Executive Incentive and Stock Award Plan and the Marsh &
	McLennan Companies, Inc. 2000 Employee Incentive and Stock Award Plan (incorporated by reference to the Company's
	Quarterly Report on Form 10-Q for the quarter ended June 30, 2005)

<sup>\*</sup>Management contract or compensatory plan or arrangement required to be filed as an exhibit pursuant to Item 15(b) of Form 10-K.

(10.6)	*Form of Awards under the Marsh & McLennan Companies, Inc. 2000 Senior Executive Incentive and Stock Award Plan
	(incorporated by reference to the Company's Quarterly Report on Form 10-Q for the quarter ended September 30, 2004)
(10.7)	*Additional Forms of Awards under the Marsh & McLennan Companies, Inc. 2000 Senior Executive Incentive and Stock Award
	Plan (incorporated by reference to the Company's Quarterly Report on Form 10-Q for the quarter ended March 31, 2005)
(10.8)	*Marsh & McLennan Companies, Inc. 2000 Employee Incentive and Stock Award Plan (incorporated by reference to the
	Company's Annual Report on Form 10-K for the year ended December 31, 2001)
(10.9)	*Form of Awards under the Marsh & McLennan Companies, Inc. 2000 Employee Incentive and Stock Award Plan (incorporated by
	reference to the Company's Quarterly Report on Form 10-Q for the quarter ended September 30, 2004)
(10.10)	*Additional Forms of Awards under the Marsh & McLennan Companies, Inc. 2000 Employee Incentive and Stock Award Plan
	(incorporated by reference to the Company's Quarterly Report on Form 10-Q for the quarter ended March 31, 2005)
(10.11)	*Form of Long-term Incentive Award under the Marsh & McLennan Companies, Inc. 2000 Senior Executive Incentive and Stock
	Award Plan and the Marsh & McLennan Companies, Inc. 2000 Employee Incentive and Stock Award Plan (incorporated by reference to the Company's Quarterly Report on Form 10-Q for the quarter ended March 31, 2006)
(10, 12)	*Form of 2007 Long-term Incentive Award under the Marsh & McLennan Companies, Inc. 2000 Senior Executive Incentive and
(10.12)	Stock Award Plan and the Marsh & McLennan Companies, Inc. 2000 Senior Executive incentive and Stock Award Plan (incorporated by
	reference to the Company's Quarterly Report on Form 10-Q for the quarter ended March 31, 2007)
(10.13)	*Form of 2008 Long-term Incentive Award under the Marsh & McLennan Companies, Inc. 2000 Senior Executive Incentive and
,	Stock Award Plan and the Marsh & McLennan Companies, Inc. 2000 Employee Incentive and Stock Award Plan (incorporated by
	reference to the Company's Quarterly Report on Form 10-Q for the quarter ended March 31, 2008)
(10.14)	*Form of 2009 Long-term Incentive Award under the Marsh & McLennan Companies, Inc. 2000 Senior Executive Incentive and
	Stock Award Plan and the Marsh & McLennan Companies, Inc. 2000 Employee Incentive and Stock Award Plan (incorporated by
	reference to the Company's Quarterly Report on Form 10-Q for the quarter ended March 31, 2009)

<sup>\*</sup>Management contract or compensatory plan or arrangement required to be filed as an exhibit pursuant to Item 15(b) of Form 10-K.

(10.15)\*Form of 2010 Long-term Incentive Award under the Marsh & McLennan Companies, Inc. 2000 Senior Executive Incentive and Stock Award Plan and the Marsh & McLennan Companies, Inc. 2000 Employee Incentive and Stock Award Plan (incorporated by reference to the Company's Quarterly Report on Form 10-Q for the quarter ended March 31, 2010) (10.16)\*Form of 2011 Long-term Incentive Award under the Marsh & McLennan Companies, Inc. 2000 Senior Executive Incentive and Stock Award Plan and the Marsh & McLennan Companies, Inc. 2000 Employee Incentive and Stock Award Plan (incorporated by reference to the Company's Quarterly Report on Form 10-Q for the quarter ended June 30, 2011) (10.17)\*Form of 2011 Long-term Incentive Award dated as of June 1, 2011 under the Marsh & McLennan Companies, Inc. 2011 Incentive and Stock Award Plan (incorporated by reference to the Company's Quarterly Report on Form 10-Q for the quarter ended September 30, 2011) (10.18)\*Form of 2012 Long-term Incentive Award under the Marsh & McLennan Companies, Inc. 2011 Incentive and Stock Award Plan (incorporated by reference to the Company's Quarterly Report on Form 10-Q for the quarter ended March 31, 2012) (10.19)\*Form of 2013 Long-term Incentive Award under the Marsh & McLennan Companies, Inc. 2011 Incentive and Stock Award Plan (incorporated by reference to the Company's Quarterly Report on Form 10-Q for the quarter ended March 31, 2013) \*Form of 2014 Long-term Incentive Award under the Marsh & McLennan Companies, Inc. 2011 Incentive and Stock Award Plan (10.20)(incorporated by reference to the Company's Quarterly Report on Form 10-Q for the guarter ended March 31, 2014) (10.21)\*Form of 2015 Long-term Incentive Award under the Marsh & McLennan Companies, Inc. 2011 Incentive and Stock Award Plan (incorporated by reference to the Company's Quarterly Report on Form 10-Q for the quarter ended March 31, 2015) (10.22)\*Form of 2016 Long-term Incentive Award under the Marsh & McLennan Companies, Inc. 2011 Incentive and Stock Award Plan (incorporated by reference to the Company's Quarterly Report on Form 10-Q for the quarter ended March 31, 2016) (10.23)\*Form of Deferred Stock Unit Award, dated as of February 24, 2012, under the Marsh & McLennan Companies, Inc. 2011 Incentive and Stock Award Plan (incorporated by reference to the Company's Quarterly Report on Form 10-Q for the quarter ended March 31, 2012) (10.24)\*Form of Deferred Stock Unit Award, dated as of March 1, 2013, under the Marsh & McLennan Companies, Inc. 2011 Incentive

31, 2013)

and Stock Award Plan (incorporated by reference to the Company's Quarterly Report on Form 10-Q for the quarter ended March

<sup>\*</sup>Management contract or compensatory plan or arrangement required to be filed as an exhibit pursuant to Item 15(b) of Form 10-K.

- (10.25) \*Form of Deferred Stock Unit Award, dated as of March 1, 2014, under the Marsh & McLennan Companies, Inc. 2011 Incentive and Stock Award Plan (incorporated by reference to the Company's Quarterly Report on Form 10-Q for the quarter ended March 31, 2014)
- (10.26) \*Form of Deferred Stock Unit Award, dated as of March 1, 2015, under the Marsh & McLennan Companies, Inc. 2011 Incentive and Stock Award Plan (incorporated by reference to the Company's Quarterly Report on Form 10-Q for the quarter ended March 31, 2015)
- (10.27) \*Form of Deferred Stock Unit Award, dated as of March 1, 2016 under the Marsh & McLennan Companies, Inc. 2011 Incentive and Stock Award Plan (incorporated by reference to the Company's Quarterly Report on Form 10-Q for the quarter ended March 31, 2016)
- (10.28) \*Form of Deferred Stock Unit Award, with grant dates from March 1, 2017 through February 1, 2018, under the Marsh & McLennan Companies, Inc. 2011 Incentive and Stock Award Plan (incorporated by reference to the Company's Quarterly Report on Form 10-Q for the quarter ended March 31, 2017)
- (10.29) \*Form of Deferred Stock Unit Award, with grant dates from March 1, 2018 through February 1, 2019, under the Marsh & McLennan Companies, Inc. 2011 Incentive and Stock Award Plan (incorporated by reference to the Company's Quarterly Report on Form 10-Q for the quarter ended March 31, 2018)
- (10.30) \*Form of Restricted Stock Unit Award, dated as of April 1, 2016 under the Marsh & McLennan Companies, Inc. 2011 Incentive and Stock Award Plan (incorporated by reference to the Company's Quarterly Report on Form 10-Q for the quarter ended June 30, 2016)
- (10.31) \*Form of Restricted Stock Unit Award, dated as of February 22, 2017 under the Marsh & McLennan Companies, Inc. 2011

  Incentive and Stock Award Plan (incorporated by reference to the Company's Quarterly Report on Form 10-Q for the quarter ended March 31, 2017)
- (10.32) \*Form of Restricted Stock Unit Award, dated as of February 21, 2018 under the Marsh & McLennan Companies, Inc. 2011

  Incentive and Stock Award Plan (incorporated by reference to the Company's Quarterly Report on Form 10-Q for the quarter ended March 31, 2018)
- \*Form of Performance Stock Unit Award, dated as of February 22, 2017, under the Marsh & McLennan Companies, Inc. 2011

  Incentive and Stock Award Plan (incorporated by reference to the Company's Quarterly Report on Form 10-Q for the quarter ended March 31, 2017)
- (10.34) \*Form of Performance Stock Unit Award, dated as of February 21, 2018, under the Marsh & McLennan Companies, Inc. 2011

  Incentive and Stock Award Plan (incorporated by reference to the Company's Quarterly Report on Form 10-Q for the quarter ended March 31, 2018)

<sup>\*</sup>Management contract or compensatory plan or arrangement required to be filed as an exhibit pursuant to Item 15(b) of Form 10-K.

(10.35)\*Form of Stock Option Award, dated as of February 22, 2017, under the Marsh & McLennan Companies, Inc. 2011 Incentive and Stock Award Plan (incorporated by reference to the Company's Quarterly Report on Form 10-Q for the guarter ended March 31, 2017) (10.36)\*Form of Stock Option Award, dated as of February 21, 2018, under the Marsh & McLennan Companies, Inc. 2011 Incentive and Stock Award Plan (incorporated by reference to the Company's Quarterly Report on Form 10-Q for the guarter ended March 31, 2018) (10.37)\*Marsh & McLennan Companies, Inc. 2011 Incentive and Stock Award Plan (incorporated by reference to the Company's Registration Statement on Form S-8 dated August 5, 2011, Registration No. 333-176084) (10.38)\*Amendment to the Marsh & McLennan Companies, Inc. 2011 Incentive and Stock Award Plan (10.39)\*Amendments to Certain Marsh & McLennan Companies Equity-Based Awards Due to U.S. Tax Law Changes Affecting Equity-Based Awards granted under the Marsh & McLennan Companies, Inc. 2000 Senior Executive Incentive and Stock Award Plan and the Marsh & McLennan Companies, Inc. 2000 Employee Incentive and Stock Award Plan, effective January 1, 2009 (incorporated by reference to the Company's Annual Report on Form 10-K for the year ended December 31, 2008) \*Section 409A Amendment Document, effective as of January 1, 2009 (incorporated by reference to the Company's Annual (10.40)Report on Form 10-K for the year ended December 31, 2008) (10.41)\*Section 409A Amendment Regarding Payments Conditioned Upon Employment-Related Action to Any and All Plans or Arrangements Entered into by the Marsh & McLennan Companies, Inc., or any of its Direct or Indirect Subsidiaries, that Provide for the Payment of Section 409A Nonqualified Deferred Compensation, effective December 21, 2012 (incorporated by reference to the Company's Annual Report on Form 10-K for the year ended December 31, 2012) \*Marsh & McLennan Companies Supplemental Savings & Investment Plan (formerly the Marsh & McLennan Companies Stock (10.42)Investment Supplemental Plan) Restatement, effective January 1, 2012 (incorporated by reference to the Company's Annual Report on Form 10-K for the year ended December 31, 2012)

(10.43)

\*First Amendment to the Marsh & McLennan Companies Supplemental Savings & Investment Plan Restatement effective

January 1, 2012 (incorporated by reference to the Company's Annual Report on Form 10-K for the year ended December 31, 2016)

<sup>\*</sup>Management contract or compensatory plan or arrangement required to be filed as an exhibit pursuant to Item 15(b) of Form 10-K.

(10.44)	*Second Amendment to the Marsh & McLennan Companies Supplemental Savings & Investment Plan Restatement effective  January 1, 2012 (incorporated by reference to the Company's Annual Report on Form 10-K for the year ended December 31, 2017)
(10.45)	*Third Amendment to the Marsh & McLennan Companies Supplemental Savings & Investment Plan Restatement effective  January 1, 2012
(10.46)	*Marsh & McLennan Companies Benefit Equalization Plan and Marsh & McLennan Companies Supplemental Retirement Plan as Restated, effective January 1, 2012 (incorporated by reference to the Company's Annual Report on Form 10-K for the year ended December 31, 2012)
(10.47)	*First Amendment to the Marsh & McLennan Companies Benefit Equalization Plan and Marsh & McLennan Companies  Supplemental Retirement Plan as Restated effective January 1, 2012 (incorporated by reference to the Company's Annual Report on Form 10-K for the year ended December 31, 2016)
(10.48)	*Second Amendment to the Marsh & McLennan Companies Benefit Equalization Plan and Marsh & McLennan Companies  Supplemental Retirement Plan as Restated effective January 1, 2012 (incorporated by reference to the Company's Annual Report on Form 10-K for the year ended December 31, 2016)
(10.49)	*Marsh & McLennan Companies, Inc. Senior Executive Severance Pay Plan (incorporated by reference to the Company's Quarterly Report on Form 10-Q for the Quarter ended March 31, 2008)
(10.50)	*Amendment to the Marsh & McLennan Companies, Inc. Senior Executive Severance Pay Plan, effective December 31, 2009 (incorporated by reference to the Company's Annual Report on Form 10-K for the year ended December 31, 2009)
(10.51)	*Marsh & McLennan Companies, Inc. Senior Management Incentive Compensation Plan (incorporated by reference to the Company's Annual Report on Form 10-K for the year ended December 31, 1994)
(10.52)	*Marsh & McLennan Companies, Inc. Directors' Stock Compensation Plan - May 31, 2009 Restatement (incorporated by reference to the Company's Quarterly Report on Form 10-Q for the quarter ended June 30, 2009)
(10.53)	*Marsh & McLennan Companies International Retirement Plan As Amended and Restated Effective January 1, 2009 (incorporated by reference to the Company's Quarterly Report on Form 10-Q for the quarter ended March 31, 2014)

\*Management contract or compensatory plan or arrangement required to be filed as an exhibit pursuant to Item 15(b) of Form 10-K.

(10.54)	*Description of compensation arrangements for independent directors of Marsh & McLennan Companies, Inc. effective June 1,	
	2016 (incorporated by reference to the Company's Quarterly Report on Form 10-Q for the quarter ended June 30, 2016)	
(10.55)	*Letter Agreement, effective as of March 20, 2013, between Marsh & McLennan Companies, Inc. and Daniel S. Glaser	
	(incorporated by reference to the Company's Quarterly Report on Form 10-Q for the quarter ended September 30, 2013)	
(10.56)	*Non-Competition and Non-Solicitation Agreement, effective as of September 18, 2013, between Marsh & McLennan Companies,	
	Inc. and Daniel S. Glaser (incorporated by reference to the Company's Quarterly Report on Form 10-Q for the quarter ended	
	<u>September 30, 2013)</u>	
(10.57)	*Letter Agreement, effective as of May 14, 2014, between Marsh & McLennan Companies, Inc. and Daniel S. Glaser (incorporated	
	by reference to the Company's Quarterly Report on Form 10-Q for the quarter ended June 30, 2014)	
(10.58)	*Letter Agreement, effective as of February 22, 2016, between Marsh & McLennan Companies, Inc. and Daniel S. Glaser	
	(incorporated by reference to the Company's Quarterly Report on Form 10-Q for the quarter ended June 30, 2016)	
(10.59)	*Letter Agreement, effective as of February 22, 2017, between Marsh & McLennan Companies, Inc. and Daniel S. Glaser	
	(incorporated by reference to the Company's Quarterly Report on Form 10-Q for the quarter ended September 30, 2017)	
(10.60)	*Letter Agreement, effective as of January 1, 2016, between Marsh & McLennan Companies, Inc. and Mark C. McGivney	
	(incorporated by reference to the Company's Quarterly Report on Form 10-Q for the quarter ended September 30, 2015)	
(10.61)	*Non-Competition and Non-Solicitation Agreement, effective as of January 1, 2016, between Marsh & McLennan Companies, Inc.	
	and Mark C. McGivney (incorporated by reference to the Company's Quarterly Report on Form 10-Q for the quarter ended	
	<u>September 30, 2015)</u>	
(10.62)	*Letter Agreement, effective as of January 17, 2018, between Marsh & McLennan Companies, Inc. and Mark C. McGivney	
	(incorporated by reference to the Company's Annual Report on Form 10-K for the year ended December 31, 2017)	
(10.63)	Letter Agreement, effective as of January 16, 2019, between Marsh & McLennan, Inc. and Mark C. McGivney	
(10.64)	*Letter Agreement, effective as of March 20, 2013, between Marsh & McLennan Companies, Inc. and Julio A. Portalatin	
	(incorporated by reference to the Company's Annual Report on Form 10-K for the year ended December 31 2013)	

<sup>\*</sup>Management contract or compensatory plan or arrangement required to be filed as an exhibit pursuant to Item 15(b) of Form 10-K.

(10.65)	*Non-Competition and Non-Solicitation Agreement, effective as of November 21, 2013, between Marsh & McLennan Companies,
	Inc. and Julio A. Portalatin (incorporated by reference to the Company's Annual Report on Form 10-K for the year ended
	<u>December 31, 2013)</u>
(10.66)	*Letter Agreement, effective as of May 14, 2014, between Marsh & McLennan Companies, Inc. and Julio A. Portalatin
	(incorporated by reference to the Company's Quarterly Report on Form 10-Q for the quarter ended June 30, 2014)
(10.67)	*Letter Agreement, effective as of May 18, 2016, between Marsh & McLennan Companies, Inc. and Julio A. Portalatin
	(incorporated by reference to the Company's Quarterly Report on Form 10-Q for the quarter ended June 30, 2016)
(10.68)	*Letter Agreement, effective as of July 12, 2017, between Marsh & McLennan Companies, Inc. and Julio A Portalatin
	(incorporated by reference to the Company's Quarterly Report on Form 10-Q for the quarter ended September 30, 2017)
(10.69)	*Letter Agreement, effective as of March 1, 2019, between Marsh & McLennan Companies, Inc. and Julio A. Portalatin
(10.70)	*Waiver and Release Agreement, dated as of February 14, 2019, between Marsh & McLennan Companies, Inc. and Julio A.
	<u>Portalatin</u>
(10.71)	*Letter Agreement, effective as of July 5, 2017, between Marsh & McLennan Companies, Inc. and John Q. Doyle (incorporated by
	reference to the Company's Quarterly Report on Form 10-Q for the quarter ended March 31, 2018)
(10.72)	*Non-Competition and Non-Solicitation Agreement, dated as of February 25, 2016, between Marsh & McLennan Companies, Inc.
	and John Q. Doyle (incorporated by reference to the Company's Quarterly Report on Form 10-Q for the quarter ended March 31,
	<u>2018)</u>
(10.73)	*Letter Agreement, effective as of March 20, 2013, between Marsh & McLennan Companies, Inc. and Peter J. Beshar
	(incorporated by reference to the Company's Quarterly Report on Form 10-Q for the quarter ended March 31, 2015)
(10.74)	*Non-Competition and Non-Solicitation Agreement, effective as of November 21, 2013, between Marsh & McLennan Companies,
	Inc. and Peter J. Beshar (incorporated by reference to the Company's Quarterly Report on Form 10-Q for the quarter ended March
	<u>31, 2015)</u>
(10.75)	Shareholder Undertaking, dated as of September 18, 2018 (incorporated by reference to the Company's Current Report on Form 8-
	K dated September 18, 2018)

<sup>\*</sup>Management contract or compensatory plan or arrangement required to be filed as an exhibit pursuant to Item 15(b) of Form 10-K.

(10.76)	Form of Director Undertaking, dated as of September 18, 2018 (incorporated by reference to the Company's Current Re	
	Form 8-K dated September 18, 2018)	
(10.77)	Bridge Loan Agreement, dated as of September 18, 2018 by and between Marsh & McLennan Companies, Inc., the lenders party	
	thereto and Goldman Sachs Bank USA, as administrative agent (incorporated by reference to the Company's Current Report on	
	Form 8-K dated September 18, 2018)	
(10.78)	Calculation Agency Agreement, dated as of January 15, 2019, between Marsh & McLennan Companies, Inc. and The Bank of	
	New York Mellon, as calculation agent (incorporated by reference to the Company's Current Report on Form 8-K filed on January	
	<u>15, 2019)</u>	
(14.1)	Code of Ethics for Chief Executive and Senior Financial Officers (incorporated by reference to the Company's Annual Report on	
	Form 10-K for the year ended December 31, 2002)	
(21.1)	<u>List of Subsidiaries of Marsh &amp; McLennan Companies, Inc.</u>	
(23.1)	Consent of Independent Registered Public Accounting Firm	
(24.1)	Power of Attorney (included on signature page)	
(31.1)	Rule 13a-14(a)/15d-14(a) Certification of Chief Executive Officer	
(31.2)	Rule 13a-14(a)/15d-14(a) Certification of Chief Financial Officer	
(32.1)	Section 1350 Certifications	
101.INS	XBRL Instance Document	
101.SCH	XBRL Taxonomy Extension Schema	
101.CAL	XBRL Taxonomy Extension Calculation Linkbase	
101.DEF	XBRL Taxonomy Extension Definition Linkbase	
101.LAB	XBRL Taxonomy Extension Label Linkbase	
101.PRE	XBRL Taxonomy Extension Presentation Linkbase	

<sup>\*</sup>Management contract or compensatory plan or arrangement required to be filed as an exhibit pursuant to Item 15(b) of Form 10-K.

# Item 16. Form 10-K Summary

None.

# **SIGNATURES**

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

MARSH & McLENNAN COMPANIES, INC.

Dated: February 21, 2019 By /s/ DANIEL S. GLASER

Daniel S. Glaser President and Chief Executive Officer

Each person whose signature appears below hereby constitutes and appoints Katherine J. Brennan and Connor Kuratek, and each of them singly, such person's lawful attorneys-in-fact and agents, with full power to them and each of them to sign for such person, in the capacity indicated below, any and all amendments to this Annual Report on Form 10-K filed with the Securities and Exchange Commission.

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities indicated this 21st day of February, 2019.

Name	Title	Date
/s/ DANIEL S. GLASER Daniel S. Glaser	Director, President & Chief Executive Officer	February 21, 2019
/s/ MARK C. McGivney Mark C. McGivney	Chief Financial Officer	February 21, 2019
/s/ STACY M. MILLS Stacy M. Mills	Vice President & Controller (Chief Accounting Officer)	February 21, 2019
/s/ ANTHONY K. ANDERSON Anthony K. Anderson	Director	February 21, 2019
/s/ Oscar Fanjul Oscar Fanjul	Director	February 21, 2019
/s/ H. EDWARD HANWAY H. Edward Hanway	Director	February 21, 2019
/s/ DEBORAH C. HOPKINS Deborah C. Hopkins	Director	February 21, 2019
/s/ ELAINE LA ROCHE Elaine La Roche	Director	February 21, 2019
/S/ STEVEN A. MILLS Steven A. Mills	Director	February 21, 2019
/s/ BRUCE P. NOLOP Bruce P. Nolop	Director	February 21, 2019
/s/ MARC D. OKEN Marc D. Oken	Director	February 21, 2019
/s/ MORTON O. SCHAPIRO Morton O. Schapiro	Director	February 21, 2019
/s/ LLOYD M. YATES Lloyd M. Yates	Director	February 21, 2019
/S/ R. DAVID YOST R. David Yost	Director	February 21, 2019

At its January 17, 2019 meeting, the Board of Directors of Marsh & McLennan Companies, Inc. authorized and approved an amendment to the Marsh & McLennan Companies, Inc. 2011 Incentive and Stock Award Plan to add the following plan provision:

**Section 6(a)(i) Minimum Vesting Requirements.** Notwithstanding any other provision of the Plan to the contrary, no portion of an Award granted under the Plan shall vest earlier than the first anniversary of the date the Award is granted, excluding, for this purpose, any Substitute Awards; provided, that, the Committee may grant equity-based Awards without regard to the foregoing minimum vesting requirement with respect to a maximum of five percent (5%) of the available share reserve authorized for issuance under the Plan pursuant to Section 5(a) (subject to adjustment under Section 5(d)); and, provided further, for the avoidance of doubt, that the foregoing restriction does not apply to the Committee's discretion to provide for accelerated exercisability or vesting of any Award, including in cases of retirement, termination other than for cause, death, disability or a Change in Control, in the terms of the Award or otherwise.

# THIRD AMENDMENT TO THE MARSH & MCLENNAN COMPANIES SUPPLEMENTAL SAVINGS & INVESTMENT PLAN

WHEREAS, Marsh & McLennan Companies, Inc. (the "Company") amended and restated the Marsh & McLennan Companies Supplemental Savings & Investment Plan, effective January 1, 2012 (the "Plan");

WHEREAS, the First Amendment to the Plan was adopted by the Company on December 7, 2016;

WHEREAS, the Second Amendment to the Plan was adopted by the Company on December 21, 2017;

WHEREAS, pursuant to the Employee Benefit Plan Guidelines adopted by the Board of Directors on September 18, 2003 (the "Guidelines") and Section 8.1 of the Plan, the Company acting through its Chief Executive Officer ("CEO") or any officer appointed directly or indirectly by the CEO, has the authority to adopt or amend the Plan if the amendment (a) is required pursuant to law or other requirement having the effect of law or (b) would reasonably be expected to have no more than a *de minimis* effect on the Company;

WHEREAS, the Company desires to amend the Plan in order to remove the references to Marsh ClearSight LLC in light of the sale of such entity; and

WHEREAS, it has been determined that the proposed changes to the Plan would be reasonably expected to have no more than a *de minimis* effect on the Company.

NOW, THEREFORE, effective on January 1, 2019, the Company acting through Laurie Ledford, Senior Vice President, Chief Human Resources Officer of the Company who, in turn, is acting pursuant to authority granted by the CEO (consistent with the Guidelines), hereby amends the Plan as follows:

- 1. Effective on January 1, 2019, Section 1.25 of the Plan (as amended by the First Amendment) is hereby further amended to read as follows:
  - "1.25 <u>Participating Company</u> means the Company and any subsidiary or affiliate thereof whose Eligible Employees are eligible to participate in the Basic Plan; provided, however, that Dovetail Insurance Corporation shall not be a Participating Company with respect to the MMC Fixed Company Credits portion of the Plan (as described in Section 4.3A)."
- 2. Effective on January 1, 2019, Section 2.1(b) of the Plan (as added by the First Amendment) shall be amended by replacing the term "an Excluded Company" with the term "Dovetail Insurance Corporation."
- 3. Effective on January 1, 2019, Section 2.2(e) of the Plan (as added by the First Amendment) is hereby deleted from the Plan, and Section 2.2(f) of the Plan is hereby re-designated as Section 2.2(e).
- 4. Effective on January 1, 2019, Section 2.3 of the Plan (as amended by the First Amendment) is hereby further amended by removing the reference to Section 2.2(e).
- 5. Effective on January 1, 2019, Section 4.3A(a) of the Plan (as added by the First Amendment) shall be amended by replacing the term "an Excluded Company" with the term "Dovetail Insurance Corporation."

IN WITNESS WHEREOF, MARSH & McLENNAN COMPANIES, INC. has caused this Third Amendment to the Plan to be executed by its duly authorized officer on the 19th day of December, 2018.

# MARSH & MCLENNAN COMPANIES, INC.

By: /s/ Laurie Ledford

Laurie Ledford

Senior Vice President and Chief
Human Resources Officer



Daniel S. Glaser President and Chief Executive Officer Marsh & McLennan Companies, Inc. 1166 Avenue of the Americas New York, New York 10036 212 345 4874 Fax 212 345 6676 dan.glaser@mmc.com www.mmc.com

Exhibit 10.63

February 19, 2019

Mark C. McGivney [Address] [City, State Zip Code]

Subject: Terms of Employment

Dear Mark:

This second amendment to the letter agreement, dated September 17, 2015, between you and Marsh & McLennan Companies, Inc., as amended by the first amendment dated January 17, 2018 (together, the "Letter Agreement"), revises the terms and conditions of your employment as follows:

1. Exhibit A to the Letter Agreement shall be deleted and replaced in its entirety with the attached Exhibit A.

The terms of this amendment are effective as of January 16, 2019. Except as amended by this second amendment, the Letter Agreement will continue to govern your employment as the Chief Financial Officer of Marsh & McLennan Companies, Inc.

Please acknowledge your agreement with the terms of the Letter Agreement, as amended by this second amendment, by signing and dating this and the enclosed copy and returning one to me.

Sincerely,

/s/ Daniel S. Glaser
Daniel S. Glaser
President and Chief Executive Officer
Marsh & McLennan Companies, Inc.
Accepted and Agreed:
/s/ Mark C. McGivney
(Signature)
2/21/2019
(Date)

February 19, 2019 Mark C. McGivney Page 2

# Exhibit A

Board or Committee Memberships	Accounting Advisory Board of the University of Rhode Island College of Business Administration
Annual Base Salary	\$800,000, effective April 1, 2019
Annual Target Bonus Opportunity	Bonus awards are discretionary. Target bonus of \$1,300,000 commencing with the 2019 performance year (awarded in 2020). Actual bonus may range from 0% - 200% of target, based on achievement of individual performance objectives and/or Marsh & McLennan Companies' performance as Marsh & McLennan Companies may establish from time to time.
Annual Target Long Term Incentive Opportunity	Long-term incentive awards are discretionary. Target award of \$2,600,000 (based on grant date fair value), commencing with the award made in 2019.



Daniel S. Glaser President and Chief Executive Officer Marsh & McLennan Companies, Inc. 1166 Avenue of the Americas New York, New York 10036 212 345 4874 Fax 212 345 6676 dan.glaser@mmc.com www.mmc.com

Exhibit 10.68

January 16, 2019

Julio A. Portalatin By Hand

Subject: Terms of Employment

Dear Julio:

This letter agreement sets forth the terms of your continued employment by Marsh & McLennan Companies, Inc. as its Vice Chairman. This position currently reports to the President and Chief Executive Officer (the "Chief Executive Officer") of Marsh & McLennan Companies, Inc. ("Marsh & McLennan Companies", and together with its subsidiaries and affiliates, the "Company"). Your principal work location will be in Miami, FL.

# 1. Effective Date, Duties and Responsibilities

The terms of this letter agreement are effective as of March 1, 2019. Effective as of February 28, 2019, you will cease to be President and Chief Executive Officer of Mercer Consulting Group, Inc. and a member of the Marsh & McLennan Companies Executive Committee. Effective as of March 1, 2019, your position will be Vice Chairman of Marsh & McLennan Companies. This position is currently classified as part-time regular, and you will be expected to work, on average, three days per week. You will continue to devote all of your attention and time during working hours to the affairs and business of the Company and use your best efforts to perform such duties and responsibilities described in Exhibit A and as shall be reasonably assigned to you by the Chief Executive Officer and are consistent with your position. In addition, you agree to serve, without additional compensation, as an officer and director for any member of the Affiliated Group. For purposes of this letter agreement, the term "Affiliated Group" means Marsh & McLennan Companies and any corporation, partnership, joint venture, limited liability company, or other entity in which Marsh & McLennan Companies has a 10% or greater direct or indirect interest. You may serve on the boards or committees set forth on Exhibit A and, with the prior written consent of Marsh & McLennan Companies, one additional public company board.

# 2. Compensation and Benefits

Your compensation and benefits are as set forth below and in Exhibit A.

a. <u>Annual Base Salary</u>: You will receive an annual base salary of the amount set forth on Exhibit A, payable in installments in accordance with the Company's payroll procedures in effect from time to time. Your base salary includes compensation for all time worked, as well as appropriate consideration for sick days, personal days, and other time off.

- b. <u>Vacation</u>: You are entitled to 5 weeks of vacation annually, prorated consistent with Section 1 above, in accordance with our Company policy.
- c. Annual Bonus: You are eligible for an annual bonus for the 2019 and 2020 performance years on the terms set forth on Exhibit A. Bonus awards are discretionary and are paid in cash. Except as provided in this paragraph, to qualify for an annual bonus, you must remain continuously and actively employed by the Company, without having tendered a notice of resignation, through the date of the bonus payment, in accordance with the terms and conditions of the award. The annual bonus shall be paid no later than March 15 of the year following the year for which such bonus is earned. In the event of your Permanent Disability (as defined below) or death, the Company shall pay you (or your estate in the case of death) a prorated target annual bonus for the year in which your termination occurs based on the portion of the year elapsed as of the date of your termination. Any such bonus amount shall be paid within 30 days of your death. In the event of your Permanent Disability, your prorated annual bonus payment is conditioned upon, and subject to, your execution and delivery to the Company within 30 days of the date of such event a valid confidential waiver and release of claims agreement (including restrictive covenants) in a form satisfactory to the Company (the "Release") and such Release has become irrevocable as provided therein (the "Release Effective Date"). Payment of any such annual bonus amount shall then be paid within 30 days following the Release Effective Date, but in no event later than March 15 of the year following the year for which such bonus is earned.

As used in this letter agreement, "Permanent Disability" will be deemed to occur when it is determined (by Marsh & McLennan Companies' disability carrier for the primary long-term disability plan or program applicable to you because of your employment with the Company) that you are unable to engage in any substantial gainful activity by reason of any medically determinable physical or mental impairment that can be expected to result in death or can be expected to last for a continuous period of not less than 12 months.

- d. <u>Long-Term Incentive Compensation</u>: You are not eligible to receive any additional awards under the Marsh & McLennan Companies' long-term incentive program, including, for the avoidance of doubt, an annual long-term incentive award in February 2019. Your outstanding equity-based awards will continue to be treated in accordance with their Terms and Conditions.
- e. <u>Benefit Programs</u>: You and your eligible family members will continue to have the opportunity to participate in the employee benefit plans, policies and programs provided by Marsh & McLennan Companies, on such terms and conditions as are generally provided to similarly situated employees of the Company. These plans may include retirement, savings, medical, life, disability, and other insurance programs as well as an array of work/life effectiveness policies and programs. Please be aware that nothing in this letter agreement shall limit Marsh & McLennan Companies' ability to change, modify, cancel or amend any such policies or plans. In addition, you will be entitled to the benefits set forth on Exhibit A and you will continue to be eligible to participate in the Marsh & McLennan Companies Executive Financial Services Program, as in effect from time to time.

## 3. Termination of Employment

- a. Your employment with the Company is expected to terminate no later than February 28, 2021. Effective as of March 1, 2019, you will no longer participate in the Marsh & McLennan Companies, Inc. Senior Executive Severance Pay Plan or any other Company severance pay plan. In consideration of the payments and other benefits hereunder, when your employment with the Company terminates for any reason and at any time, you will not be eligible for any severance payments or benefits under any severance plan or arrangement sponsored by the Company.
- b. Upon the termination of your employment for any reason, you shall immediately resign, as of your date of termination, from all positions that you then hold with any member of the Affiliated Group. You hereby agree to execute any and all documentation to effectuate such resignations upon request by the Company, but you shall be treated for all purposes as having so resigned upon your date of termination, regardless of when or whether you execute any such documentation.
- c. During the term of this letter agreement, and, subject to any other business obligations that you may have, following your date of termination, you agree to assist the Affiliated Group in the investigation and/or defense of any claims or potential claims that may be made or threatened to be made against any member of the Affiliated Group, including any of their officers or directors (a "Proceeding"), and will assist the Affiliated Group in connection with any claims that may be made by any member of the Affiliated Group in any Proceeding. You agree, unless precluded by law, to promptly inform Marsh & McLennan Companies if you are asked to participate in any Proceeding or to assist in any investigation of any member of the Affiliated Group. In addition, you agree to provide such services as are reasonably requested by the Company to assist any successor to you in the transition of duties and responsibilities to such successor. Following the receipt of reasonable documentation, the Company agrees to reimburse you for all of your reasonable out-of-pocket expenses associated with such assistance. Your request for any reimbursement, including reasonable documentation, must be submitted as soon as practicable and otherwise consistent with Company policy. In any event, your request for a taxable reimbursement, including reasonable documentation, must be submitted by the October 31st of the year following the year in which the expense is incurred. The Company will generally reimburse such expenses within 60 days of the date they are submitted, but in no event will they be reimbursed later than the December 31st of the year following the year in which the expense is incurred.

January 16, 2019 Julio A. Portalatin Page 4

#### 4. Restrictive Covenants

You are subject to existing restrictions with respect to confidentiality, noncompetition or nonsolicitation under confidentiality, noncompetition, nonsolicitation, or other agreements, including the Non-competition and Non-solicitation Agreement dated as of November 21, 2013 ("The November 2013 Agreement"). Such restrictions shall remain in full force and effect and, by your execution of this letter agreement, you hereby reaffirm and ratify such restrictions; provided that, the non-competition restrictions contained in Section 3 of the November 2013 Agreement shall expire on March 1, 2020.

## 5. Code of Conduct & Other Mandatory Training

As a condition of your continued employment by Marsh & McLennan Companies as Vice Chairman, Marsh & McLennan Companies, you must read, understand and abide by all applicable Marsh & McLennan Companies, Inc. compliance policies found on the Marsh & McLennan Companies' compliance website (www.compliance.mmc.com), as updated from time to time, including but not limited to The Marsh & McLennan Companies Code of Conduct, *The Greater Good*. You must complete any required online compliance training for your position within 30 days after it becomes available. In addition, you understand that you must complete any and all additional training that the Company determines is appropriate for your position during the course of your employment.

## 6. Credentialing

The Company supports continuing professional education. If you hold a professional license or certification, you acknowledge that you understand the obligations and the specific code of professional ethics associated with this license or certificate and agree to perform your duties in accordance with these standards. In addition, you acknowledge your responsibility to maintain any job-related licenses or certificates in accordance with the requirements issued by the applicable regulatory body or bodies. The Company agrees to reimburse you for the fees you incur during your employment with the Company in maintaining such licenses or certificates applicable to your position. You must submit your fees within 60 days after the date they are incurred. The Company will generally reimburse such fees within 60 days of the date they are submitted, but in no event will they be reimbursed later than December 31st of the year following the year in which the fee was incurred.

#### 7. Waiver and Release

The terms of this letter agreement, and the payment of a bonus award for the 2020 performance year are contingent upon (a) your execution and delivery to the Company of the Waiver and Release Agreement attached as Exhibit B within the time period described in the penultimate paragraph thereof following (i) your execution of this letter agreement and (ii) your termination of employment and (b) each such Waiver and Release Agreement becoming irrevocable as provided therein.

January 16, 2019 Julio A. Portalatin Page 5

#### 8. Miscellaneous

a. <u>Notices</u>. Notices given pursuant to this letter agreement shall be in writing and shall be deemed received when personally delivered, or on the date of written confirmation of receipt by (i) overnight carrier, (ii) telecopy, (iii) registered or certified mail, return receipt requested, postage prepaid, or (iv) such other method of delivery as provides a written confirmation of delivery. Notice to the Company shall be directed to:

Peter J. Beshar Executive Vice President & General Counsel Marsh & McLennan Companies, Inc. 1166 Avenue of the Americas New York, NY 10036

Notices to or with respect to you will be directed to you, or in the event of your death, your executors, personal representatives or distributees, at your home address as set forth in the records of the Company.

- b. Assignment of this Agreement. This letter agreement is personal to you and shall not be assignable by you without the prior written consent of Marsh & McLennan Companies. This letter agreement shall inure to the benefit of and be binding upon the Company and its respective successors and assigns. Marsh & McLennan Companies may assign this letter agreement, without your consent, to any member of the Affiliated Group or to any other respective successor (whether directly or indirectly, by agreement, purchase, merger, consolidation, operation of law or otherwise) to all, substantially all or a substantial portion of the business and/or assets of the Company, as applicable. If and to the extent that this letter agreement is so assigned, references to the "Company" throughout this letter agreement shall mean the Company as hereinbefore defined and any successor to, or assignee of, its business and/or assets as applicable.
- c. Merger of Terms. This letter agreement supersedes all prior discussions and agreements between you and the Company or any member of the Affiliated Group with respect to the subject matters covered herein, including without limitation, the Letter Agreement dated November 21, 2013, as amended by the first amendment dated June 6, 2014, the second amendment dated June 10, 2016 and the third amendment dated September 14, 2017. For the avoidance of doubt, compensation that was paid or awarded to you prior to the effective date of this letter agreement will continue to be governed by the terms pursuant to which such compensation was paid or awarded.
- d. <u>Indemnification</u>. The Company shall indemnify you to the extent permitted by its bylaws, as in effect on the date hereof, with respect to the work you have performed for, or at the request of, the Company or any member of the Affiliated Group (as such term is defined in Section 1 above) during the term of this letter agreement.

- e. <u>Governing Law; Amendments</u>. This letter agreement shall be governed by and construed in accordance with the laws of the State of New York, without reference to principles of conflict of laws. This letter agreement may not be amended or modified other than by a written agreement executed by you and an authorized employee of Marsh & McLennan Companies.
- f. Choice of Forum. The Company and you each hereby irrevocably and unconditionally submits to the exclusive jurisdiction of any New York state court or federal court of the United States of America sitting in the State of New York, and any appellate court thereof, in any action or proceeding arising out of or relating to this letter agreement or for recognition or enforcement of any judgment relating thereto, and each of the parties hereto hereby irrevocably and unconditionally agrees that all claims in respect of any such action or proceeding may be heard and determined in any such New York state court or, to the extent permitted by law, in such federal court. The Company and you agree that a final judgment in any such action or proceeding shall be conclusive and may be enforced in other jurisdictions by suit on the judgment or in any other manner provided by law.
- g. <u>Severability</u>; <u>Captions</u>. In the event that any provision of this letter agreement is determined to be invalid or unenforceable, in whole or in part, the remaining provisions of this letter agreement will be unaffected thereby and shall remain in full force and effect to the fullest extent permitted by law. The captions in this letter agreement are not part of the provisions of this letter agreement and will have no force or effect.
- h. Section 409A. The provisions of this Section 8(h) will only apply if and to the extent required to avoid the imposition of taxes, interest and penalties on you under Section 409A of the Internal Revenue Code of 1986, as amended ("Section 409A"). Section 409A applies to nonqualified deferred compensation which exists if an individual has a "legally binding right" to compensation that is or may be payable in a later year. In furtherance of the objective of this Section 8(h), to the extent that any regulations or other guidance issued under Section 409A would result in your being subject to payment of taxes, interest or penalties under Section 409A, you and the Company agree to use our best efforts to amend this letter agreement and any other plan, award, arrangement or agreement between you and the Company in order to avoid or limit the imposition of any such taxes, interest or penalties, while maintaining to the maximum extent practicable the original intent of the applicable provisions. This Section 8(h) does not guarantee that you will not be subject to taxes, interest or penalties under Section 409A with respect to compensation or benefits described or referenced in this letter agreement or any other plan, award, arrangement or agreement between you and the Company.

Furthermore, and notwithstanding any contrary provision in this letter agreement or any other plan, award, arrangement or agreement between you and the Company, to the extent necessary to avoid the imposition of taxes, interest and penalties on you under Section 409A, if at the time of the termination of your employment you are a "specified employee" (as defined in Section 409A), you will not be entitled to any payments upon termination of employment until the first day of the seventh month after the termination of employment

January 16, 2019 Julio A. Portalatin Page 7

and any such payments to which you would otherwise be entitled during the first six months following your termination of employment will be accumulated and paid without interest on the first day of the seventh month after the termination of employment.

Furthermore, and notwithstanding any contrary provision in this letter agreement or in any other plan, award, arrangement or agreement between you and the Company that: (i) provides for the payment of nonqualified deferred compensation that is subject to Section 409A; and (ii) conditions payment or commencement of payment on one or more employment-related actions, such as the execution and effectiveness of a release of claims or a restrictive covenant (each an "Employment-Related Action") (any such plan, award, arrangement or agreement is a "Relevant Plan"):

- (1) if the Relevant Plan does not specify a period or provides for a period of more than 90 days for the completion of an Employment-Related Action, then the period for completion of the Employment-Related Action will be the period specified by the Company, which shall be no longer than 90 days following the event otherwise triggering the right to payment; and
- (2) if the period for the completion of an Employment-Related Action includes the January 1 next following the event otherwise triggering the right to payment, then the payment shall be made or commence following the completion of the Employment-Related Action, but in no event earlier than that January 1.
- i. Withholding Requirements. All amounts paid or provided to you under this letter agreement shall be subject to any applicable income, payroll or other tax withholding requirements.

Please acknowledge your agreement with the terms of this letter agreement by signing and dating this and the enclosed copies of the letter agreement and Waiver and Release Agreement and returning one copy of each to me.

Sincerely,

/s/ Daniel S. Glaser

Daniel S. Glaser
President and Chief Executive Officer
Marsh & McLennan Companies, Inc.

January 16, 2019 Julio A. Portalatin Page 8
Accepted and Agreed:
/s/ Julio A. Portalatin
(Signature)
2/14/2019
(Date)

## Exhibit A

Board or Committee Memberships	<ul> <li>Board of Directors of DXC Technology</li> <li>Hofstra University Board of Trustees</li> <li>Board of Covenant House International</li> </ul>
Annual Base Salary	\$500,000, effective March 1, 2019
Annual Target Bonus Opportunity	Bonus awards are discretionary. Target bonus of \$1,000,000 for the 2019 and 2020 performance years (awarded in 2020 and 2021, respectively). Actual bonus awards will be based on performance over the applicable fiscal year.
Key Responsibilities	<ul> <li>Focus on key client engagement and represent the Company at key client events</li> <li>Serve in an advisory role for the Company's health businesses</li> <li>Assist with the integration of Jardine Lloyd Thompson</li> <li>Be available to advise the new Mercer Chief Executive Officer, as requested</li> <li>Other duties as requested by the Marsh &amp; McLennan Companies Chief Executive Officer</li> </ul>
Other Benefits	<ul> <li>You will have access to a full-time executive assistant.</li> <li>The Company will pay for travel and expenses in accordance with its travel and expense policies in effect from time to time.</li> </ul>





### Waiver and Release Agreement

- I, Julio A. Portalatin, in consideration of the terms and conditions in the Terms of Employment Letter dated January 16, 2019 (the "Letter") which I acknowledge are sufficient consideration to support this Waiver and Release Agreement ("Agreement"), agree to accept the Letter in full resolution and satisfaction of, and hereby irrevocably and unconditionally release and forever discharge Marsh & McLennan Companies, Inc. (the "Company") and its past and present, direct and indirect parents, subsidiaries, affiliates, divisions, predecessors, successors, assigns and representatives, and all of its or their respective past and present benefit and severance plans, plan administrators, insurers, agents, shareholders, officers, directors, employees, attorneys and representatives, whether acting as agents or in individual capacities (collectively, the "Releasees") with respect to any and all agreements, promises, rights, liabilities, claims and demands of any kind whatsoever, at law or in equity, whether known or unknown, asserted or unasserted, fixed or contingent, apparent or concealed, that I, my heirs, executors, administrators, successors or assigns ever had, now have or hereafter can, shall or may have for, upon, or by reason of any matter, cause or thing whatsoever existing, accruing, arising or occurring at any time on or prior to the date I execute this Agreement, including, without limitation,
- (i) any and all rights and claims arising out of or relating to my employment, compensation and benefits with the Company, and any change in position or status with the Company or any of its affiliates;
- (ii) any and all rights or claims under any prior agreements between me and the Company or any of the Releasees (except as set forth in the Letter), including, without limitation, the Letter Agreement, dated as of November 21, 2013, between me and the Company, as amended by the first amendment dated June 6, 2014, second amendment dated June 10, 2016 and third amendment dated September 14, 2017, and the Offer of Employment, dated January 3, 2012 between me and the Company.
  - (iii) fraud, whistleblower, public policy, defamation, disparagement and other personal injury and tort claims; and
- (iv) claims under any federal, state or municipal employee benefit, wage payment, discrimination or fair employment practices law, statute or regulation (e.g., claims based on race, color, sex, religion, age, national origin, disability, sexual orientation, or veteran, marital or citizenship status) law, and claims for costs, expenses and attorneys' fees with respect thereto, including, without limitation, any and all rights and claims under Title VII of the Civil Rights Act of 1964, the Civil Rights Acts of 1866 and 1991, the Age Discrimination in Employment Act, as amended by the Older Workers Benefit Protection Act, the Americans with Disabilities Act, the Equal Pay Act, the Employee Retirement Income Security Act, the Worker Adjustment Retraining and Notification Act, the Sarbanes-Oxley Act, and the Family and Medical Leave Act, as such laws have been or may be amended.

## WAIVER AND RELEASE AGREEMENT Page 2

Nothing in this Agreement releases or diminishes any obligations under the Letter, which shall continue in full force and effect in accordance with its terms. Nothing in this Agreement releases or diminishes any vested monies or other vested benefits to which I may be entitled from, under, or pursuant to any incentive, savings, stock, retirement or compensation plan of the Company or the Releasees, or my right, if any, to obtain contribution and/or indemnification, as permitted by applicable law and Company bylaws. In addition, this Agreement does not release any claims that I cannot lawfully release, and does not prohibit me from filing a charge with any government administrative agency (such as the EEOC) as long as I do not personally seek reinstatement, damages, remedies or other relief as to any claim that I have released, any right to which I hereby waive. Further, this Agreement is not intended to and does not affect any rights or claims I may have arising after the date that I execute this Agreement.

This Agreement shall inure to the benefit of and shall be binding upon and enforceable by each and all of the Releasees.

I acknowledge that: before signing this Agreement, I was given a period of twenty-one (21) days in which to review and consider it; I have, in fact, carefully reviewed this Agreement; and that I am entering into the Agreement voluntarily and of my own free will. Further, I am advised to consult with an attorney before signing this Agreement. I acknowledge that, to the extent I wished to do so, I have consulted with an attorney. I represent, warrant and agree that, if I choose to execute this Agreement before the end of the 21-day period, I do so with the understanding that I am choosing not to exercise my right to take the full 21-day period to consider this Agreement, that such early execution was not induced by fraud, misrepresentation or a threat to withdraw or alter the Agreement prior to the expiration of the 21-day period, that such early execution was completely knowing and voluntary, and that I had reasonable and ample time in which to review this Agreement with the advice of counsel.

I agree that, for a period of seven (7) days after I sign this Agreement, I have the right to revoke it by providing written notice to Peter J. Beshar, Executive Vice President & General Counsel, Marsh & McLennan Companies, Inc., 1166 Avenue of the Americas, 44<sup>th</sup> Floor, New York, New York 10036. For this revocation to be effective, written notice must be received by Mr. Beshar no later than the close of business on the eighth (8<sup>th</sup>) day after I sign this Agreement. Notwithstanding anything contained herein to the contrary, this Agreement will not become fully effective and enforceable until after the expiration of the seven-day revocation period.

/s/ Julio A. Portalatin 2/14/2019

Julio A. Portalatin (Date)

Accepted and Agreed:

# Marsh & McLennan Companies, Inc. List of Subsidiaries as of February 19, 2019

	Company Name	Country
1	Marsh Management Services (Bermuda) Ltd.	Bermuda
2	8WORKS INC.	United States
3	8WORKS LTD	United Kingdom
4	A Wills & Co Limited	United Kingdom
5	A. Constantinidi & CIA. S.C.	Uruguay
6	A.C.N. 000 951 146 Pty Limited	Australia
7	A.C.N. 001 572 961 Pty Limited	Australia
8	A.C.N. 076 935 683 Pty Limited	Australia
9	A.C.N. 102 322 574 Pty Limited	Australia
10	Access Equity Enhanced Fund GP, LLC	United States
11	AD Corretora de Seguros Ltda.	Brazil
12	AD Gestao de Riscos Ltda.	Brazil
13	AD Holding Participacoes Ltda.	Brazil
14	AD Participacoes e Investimentos Ltda.	Brazil
15	AD5 Corretora de Seguros Ltda.	Brazil
16	Admiral Holdings Limited	United Kingdom
17	AFCO Premium Acceptance, Inc.	United States
18	AFCO Premium Credit LLC	United States
19	Aldgate Investments Limited	Bermuda
20	Alexander Forbes Group Holdings Limited	South Africa
21	Alliance Insurance Holdings Limited (application made to strike-off)	United Kingdom
22	Amal Insurance Brokers Limited (in liquidation)	Saudi Arabia
23	Assur Conseils Marsh S.A.	Senegal
24	Assurance Capital Corporation	United States
25	Assurance Services Corporation	United States
26	Australian World Underwriters Pty Ltd.	Australia
27	Barney & Barney Orange County, LLC	United States
28	BBPS Limited	United Kingdom
29	Beaumonts (Leeds) Limited	United Kingdom
30	Beaumonts Insurance Brokers Limited (in liquidation)	United Kingdom
31	Beaumonts Insurance Services Limited	United Kingdom
32	Benefitfocus, Inc.	United States
33	BFC Asset Management Co., Ltd.	Japan
34	Blue Marble Micro Limited	United Kingdom
35	Blue Marble Microinsurance, Inc.	United States
36	Bluefin Insurance Group Limited	United Kingdom
37	Bluefin Insurance Services Limited	United Kingdom
38	Bluefin Underwriting Limited	United Kingdom
39	Boulder Claims, LLC	United States

40	Bowring (Bermuda) Investments Ltd.	Bermuda
41	Bowring Marine Limited	United Kingdom
42	Bowring Marsh (Bermuda) Ltd.	Bermuda
43	Bowring Marsh (Hong Kong) Limited	Hong Kong
44	Bowring Marsh Asia Pte. Ltd.	Singapore
45	Bowring Marsh Corretora de Resseguros Ltda.	Brazil
46	Bowring Marsh Limited	United Kingdom
47	Broker 2 Broker Limited	United Kingdom
48	BuildPay, LLC	United States
49	C.T. Bowring Limited	United Kingdom
50	Carpenter Turner Cyprus Ltd	Cyprus
51	Carpenter Turner S.A.	Greece
52	Cascade International Holdings C.V.	Netherlands
53	Cascade Regional Holdings Limited	United Kingdom
54	Central Insurance Services Limited	United Kingdom
55	Chronos Insurance Brokers Pty Limited	Australia
56	Claims and Recovery Management (Australia) Pty Limited	Australia
57	Clark Thomson Insurance Brokers Limited	United Kingdom
58	Companias DeLima S.A.	Colombia
59	Consultores 2020 C.A.	Venezuela, Bolivarian Republic of
60	CPSG Partners, LLC	United States
61	Cronin & Co Insurance Services Limited	United Kingdom
62	DeLima Marsh S.A Los Corredores de Seguros S.A.	Colombia
63	Dovetail Insurance Corp.	United States
64	Dovetail Managing General Agency Corporation	United States
65	Dovetail Technology Service India Private Limited	India
66	Draw Connect Limited	United Kingdom
67	Draw Create Limited	United Kingdom
68	Draw Group London Limited	United Kingdom
69	DVA - Deutsche Verkehrs-Assekuranz-Vermittlungs GmbH	Germany
70	EnBW Versicherungs Vermittlung GmbH	Germany
71	Encompass Insurance Agency Pty Ltd.	Australia
72	Encon Group Inc./Groupe Encon Inc.	Canada
73	English Pension Trustees Limited	United Kingdom
74	Epsilon (US) Insurance Company	United States
75	Epsilon Insurance Company, Ltd.	Cayman Islands
76	Exchange Insurance Services Limited (in liquidation)	United Kingdom
77	Exmoor Management Company Limited	Bermuda
78	Factern Limited	United Kingdom
79	Faulkner & Flynn, LLC	United States
80	Ferguson Oliver Insurance Limited	United Kingdom
81	Gama Consultores Associados Ltda.	Brazil
82	GC Genesis LLC	United States
83	Gem Insurance Company Limited	Bermuda
84	Global Premium Finance Company	United States
85	Guy Carpenter & Cia (Mexico) S.A. de C.V.	Mexico

86	Guy Carpenter & Cia., S.A.	Spain
87	Guy Carpenter & Co. Labuan Ltd.	Malaysia
88	Guy Carpenter & Company AB	Sweden
89	Guy Carpenter & Company Corredores de Reaseguros Limitada	Chile
90	Guy Carpenter & Company Corretora de Resseguros Ltda.	Brazil
91	Guy Carpenter & Company GmbH	Germany
92	Guy Carpenter & Company Limited	United Kingdom
93	Guy Carpenter & Company Limited	New Zealand
94	Guy Carpenter & Company Participacoes Ltda.	Brazil
95	Guy Carpenter & Company Peru Corredores de Reaseguros S.A.	Peru
96	Guy Carpenter & Company Private Limited	Singapore
97	Guy Carpenter & Company Proprietary Limited	South Africa
98	Guy Carpenter & Company Pty. Ltd.	Australia
99	Guy Carpenter & Company S.A. (Uruguay)	Uruguay
100	Guy Carpenter & Company S.r.l.	Italy
101	Guy Carpenter & Company, Limited	Hong Kong
102	Guy Carpenter & Company, LLC	United States
103	Guy Carpenter & Company, Ltd./Guy Carpenter & Compagnie, Ltee	Canada
104	Guy Carpenter & Company, S.A.	Belgium
105	Guy Carpenter & Company, S.A.	Argentina
106	Guy Carpenter & Company, S.A.S.	France
107	Guy Carpenter (Middle East) Limited	United Arab Emirates
108	Guy Carpenter Bermuda Ltd.	Bermuda
109	Guy Carpenter Broking, Inc.	United States
110	Guy Carpenter Colombia Corredores de Reaseguros Ltda.	Colombia
111	Guy Carpenter Insurance Brokers (Beijing) Co. Ltd.	China
112	Guy Carpenter Japan, Inc.	Japan
113	Guy Carpenter Mexico Intermediario de Reaseguro, S.A. de C.V.	Mexico
114	Guy Carpenter Reasurans Brokerligi Anonim Sirketi	Turkey
115	Hamilton Bond Limited	United Kingdom
116	Hansen International Limited	United States
117	HAPIP 2009 GP, LLC	United States
118	HAPIP GP, LLC	United States
119	HSBC Insurance Brokers International (Abu Dhabi) LLC (in liquidation)	United Arab Emirates
120	Industrial Risks Protection Consultants	Nigeria
121	Ingeseg S.A.	Argentina
122	Insbrokers Ltda.	Uruguay
123	INSIA a.s.	Czech Republic
124	INSIA Europe SE	Czech Republic
125	INSIA SK s.r.o.	Slovakia
126	InSolutions Limited	United Kingdom
127	Insurance Brokers of Nigeria Limited	Nigeria
128	InsurTech Alliance, LLC	United States
129	International Catastrophe Insurance Managers, LLC	United States
130	Invercol Limited	Bermuda
131	Irish Pensions Trust Limited	Ireland

132	J&H Marsh & McLennan Limited	Hong Kong
133	J.W. Terrill Benefit Administrators, Inc.	United States
134	Japan Affinity Marketing, Inc.	Japan
135	Jelf Commercial Finance Limited	United Kingdom
136	Jelf Financial Planning Limited	United Kingdom
137	Jelf Insurance Brokers Limited	United Kingdom
138	Jelf Limited	United Kingdom
139	Jelf Risk Management Limited	United Kingdom
140	Jelf Wellbeing Limited	United Kingdom
141	John Lampier & Son Ltd	United Kingdom
142	Johnson & Higgins (Bermuda) Limited	Bermuda
143	Johnson & Higgins Limited	United Kingdom
144	JSL Securities, Inc.	United States
145	Kepler Associates Limited	United Kingdom
146	Kessler & Co AG	Switzerland
147	Kessler & Co Inc.	Liechtenstein
148	Kessler Consulting Inc.	Switzerland
149	Kessler Prevoyance Inc.	Switzerland
150	Laterlife.com Limited (in liquidation)	United Kingdom
151	Lemac No.7 Limited	United Kingdom
152	Libra Insurance Services Limited	United Kingdom
153	Lomond Macdonald Limited	United Kingdom
154	Lynch Insurance Brokers Limited	Barbados
155	M&M Vehicle, L.P.	United States
156	Mangrove Insurance Europe PCC Limited	Malta
157	Mangrove Insurance Solutions PCC Limited	Isle of Man
158	Mangrove Insurance Solutions, PCC	United States
159	Marchant McKechnie Insurance Brokers Limited	United Kingdom
160	Marsh & McLennan (PNG) Limited	Papua New Guinea
161	Marsh & McLennan Agencies AS	Norway
162	Marsh & McLennan Agencies As	Hong Kong
163	·	Denmark
	Marsh & McLennan Agency A/S	
164	Marsh & McLennan Agency Limited	New Zealand
165	Marsh & McLennan Agency LLC	United States
166	Marsh & McLennan Agency Pty Ltd.	Australia
167	Marsh & McLennan Argentina SA Corredores de Reaseguros	Argentina
168	Marsh & McLennan Companies Acquisition Funding Limited	United Kingdom
169	Marsh & McLennan Companies Acquisition Limited	United Kingdom
170	Marsh & McLennan Companies BVBA/SPRL	Belgium
171	Marsh & McLennan Companies Finance Center (Luxembourg) S.a.r.l.	Luxembourg
172	Marsh & McLennan Companies France S.A.S.	France
173	Marsh & McLennan Companies Holdings (Luxembourg) S.a.r.l.	Luxembourg
174	Marsh & McLennan Companies Regional Holdings S.a.r.l.	Luxembourg
175	Marsh & McLennan Companies Services B.V.	Netherlands
176	Marsh & McLennan Companies UK Limited	United Kingdom
177	Marsh & McLennan Companies, Inc.	United States

178	Marsh & McLennan Deutschland GmbH	Germany
179	Marsh & McLennan Europe S.a.r.l.	Luxembourg
180	Marsh & McLennan Global Broking (Bermuda) Ltd.	Bermuda
181	Marsh & McLennan GP I, Inc.	United States
182	Marsh & McLennan Holdings (Canada) ULC	Canada
183	Marsh & McLennan Holdings, Inc.	United States
184	Marsh & McLennan Innovation Centre Holdings II	Bermuda
185	Marsh & McLennan Innovation Centre Holdings S.a.r.l.	Luxembourg
186	Marsh & McLennan Innovation Centre Unlimited Company	Ireland
187	Marsh & McLennan Insurance Services Limited	Hong Kong
188	Marsh & McLennan Management Services (Bermuda) Limited	Bermuda
189	Marsh & McLennan Risk Capital Holdings, Ltd.	United States
190		
	Marsh & McLennan Servicios, S.A. De C.V.	Mexico Canada
191	Marsh & McLennan Shared Services Canada Limited	
192	Marsh & McLennan Shared Services Corporation	United States
193	Marsh & McLennan, Incorporated (for dissolution)	United States
194	Marsh (Bahrain) Company SPC	Bahrain
195	Marsh (China) Insurance Brokers Co., Ltd.	China
196	Marsh (Hong Kong) Limited	Hong Kong
197	Marsh (Insurance Brokers) LLP	Kazakhstan
198	Marsh (Insurance Services) Limited	United Kingdom
199	Marsh (Malawi) Limited	Malawi
200	Marsh (Middle East) Limited	United Kingdom
201	Marsh (Namibia) (Proprietary) Limited	Namibia
202	Marsh (Pty) Ltd	South Africa
203	Marsh (Risk Consulting) LLP	Kazakhstan
204	Marsh (Singapore) Pte. Ltd.	Singapore
205	Marsh A/S	Denmark
206	Marsh AB	Sweden
207	Marsh Advantage Insurance Holdings Pty Ltd	Australia
208	Marsh Advantage Insurance Pty Ltd.	Australia
209	Marsh Africa (Pty) Ltd	South Africa
210	Marsh AG	Switzerland
211	Marsh Argentina S.R.L.	Argentina
212	Marsh AS	Norway
213	Marsh Associates (Pty) Ltd	South Africa
214	Marsh Austria G.m.b.H.	Austria
215	Marsh Aviation Insurance Broking Pty Ltd (for dissolution)	Australia
216	Marsh B.V.	Netherlands
217	Marsh Botswana (Proprietary) Limited	Botswana
218	Marsh Brockman y Schuh Agente de Seguros y de Fianzas, S.A. de C.V.	Mexico
219	Marsh Broker de Asigurare-Reasigurare S.R.L.	Romania
220	Marsh Broker Japan, Inc.	Japan
221	Marsh Brokers (Hong Kong) Limited	Hong Kong
222	Marsh Brokers Limited	United Kingdom
223	Marsh Canada Limited/Marsh Canada Limitee	Canada

224	Marsh Compensation Technologies Administration (Pty) Ltd	South Africa
225	Marsh Corporate Services (Barbados) Limited	Barbados
226	Marsh Corporate Services Isle of Man Ltd	Isle of Man
227	Marsh Corporate Services Limited	United Kingdom
228	Marsh Corporate Services Malta Limited	Malta
229	Marsh Corretora de Seguros Ltda.	Brazil
230	Marsh d.o.o. Beograd	Serbia
231	Marsh d.o.o. za posredovanje u osiguranju	Croatia
232	Marsh Egypt LLC	Egypt
233	Marsh Emirates Consultancy LLC	United Arab Emirates
234	Marsh Emirates Insurance Brokerage LLC	United Arab Emirates
235	Marsh Employee Benefits Limited	Ireland
236	Marsh Employee Benefits Zimbabwe (Private) Ltd	Zimbabwe
237	Marsh EOOD	Bulgaria
238	Marsh Eurofinance B.V.	Netherlands
239	Marsh Europe S.A.	Belgium
240	Marsh Financial Advisory Services Limited	China
241	Marsh FJC International Insurance Brokers Limited	Nigeria
242	Marsh for Insurance Services - Jordan	Jordan
243	Marsh For Insurance Services S.A.E.	Egypt
244	Marsh Franco Acra, S.A.	Dominican Republic
245	Marsh GmbH	Germany
246	Marsh GSC Servicos e Administracao de Seguros Ltda.	Brazil
247	Marsh Holding AB	Sweden
248	Marsh Holdings (Pty) Ltd	South Africa
249	Marsh i-Connect (Pty) Ltd	South Africa
250	Marsh India Insurance Brokers Private Limited	India
251	Marsh Insurance & Investments LLC	United States
252	Marsh Insurance and Reinsurance Brokers LLC	Azerbaijan
253	Marsh Insurance Brokers	United Kingdom
254	Marsh Insurance Brokers (Macao) Limited	Macao
255	Marsh Insurance Brokers (Malaysia) Sdn Bhd	Malaysia
256	Marsh Insurance Brokers (Private) Limited	Zimbabwe
257	Marsh Insurance Brokers AO	Russian Federation
258	Marsh Insurance Brokers Limited	Cyprus
259	Marsh Insurance Consulting Saudi Arabia (in liquidation)	Saudi Arabia
260	Marsh Intermediaries Inc.	United States
261	Marsh International Broking Holdings Limited	United Kingdom
262	Marsh International Holdings II, Inc.	United States
263	Marsh International Holdings, Inc.	United States
264	Marsh Investment B.V.	Netherlands
265	Marsh Ireland Brokers Limited	Ireland
266	Marsh Ireland Holdings Limited	Ireland
267	Marsh Israel (1999) Ltd.	Israel
268	Marsh Israel (Holdings) Ltd.	Israel
269	Marsh Israel Consultants Ltd.	Israel

270	Marsh Israel Insurance Agency Ltd.	Israel
271	Marsh Israel International Brokers Ltd. (in liquidation)	Israel
272	Marsh Japan, Inc.	Japan
273	Marsh JCS Inc.	United States
274	Marsh Kft.	Hungary
275	Marsh Kindlustusmaakler AS	Estonia
276	Marsh Korea, Inc.	Korea, Republic of
277	Marsh Limited	United Kingdom
278	Marsh Limited [Fiji]	Fiji
279	Marsh Limited [New Zealand]	New Zealand
280	Marsh Limited [PNG]	Papua New Guinea
281	Marsh LLC	United States
282	Marsh LLC [Ukraine]	Ukraine
283	Marsh LLC Insurance Brokers	Greece
284	Marsh Ltd. [Wisconsin]	United States
285	Marsh Management Services (Bahamas) Ltd.	Bahamas
286	Marsh Management Services (Barbados) Limited	Barbados
287	Marsh Management Services (Dublin) Limited	Ireland
288	Marsh Management Services (Labuan) Limited	Malaysia
289	Marsh Management Services (MENA) Limited	United Arab Emirates
290	Marsh Management Services (USVI) Ltd.	United States
291	Marsh Management Services Cayman Ltd.	Cayman Islands
292	Marsh Management Services Guernsey Limited	Guernsey
293	Marsh Management Services Inc.	United States
294	Marsh Management Services Isle of Man Limited	Isle of Man
295	Marsh Management Services Luxembourg S.a.r.l.	Luxembourg
296	Marsh Management Services Malta Limited	Malta
297	Marsh Management Services Singapore Pte. Ltd.	Singapore
298	Marsh Management Services Sweden AB	Sweden
299	Marsh Marine & Energy AB	Sweden
300	Marsh Marine Nederland B.V.	Netherlands
301	Marsh Medical Consulting GmbH	Germany
302	Marsh Mercer Holdings (Australia) Pty Ltd	Australia
303	Marsh Nest Inc.	United States
304	Marsh Oman LLC	Oman
305	Marsh Oy	Finland
306	Marsh PB Co., Ltd.	Thailand
307	Marsh Philippines, Inc.	Philippines
308	Marsh Privat, A.I.E.	Spain
309	Marsh Private Client Life Insurance Services	United States
310	Marsh Pty. Ltd.	Australia
311	Marsh Qatar LLC	Qatar
312	Marsh RE S.A.C. Corredores de Reaseguros	Peru
313	Marsh Rehder Consultoria S.A. (MRC)	Peru
314	Marsh Rehder S.A. Corredores de Seguros	Peru
315	Marsh Resolutions Pty Limited	Australia

316	Marsh Risk and Consulting Services (Pty) Ltd	Namibia
317	Marsh Risk Consulting B.V.	Netherlands
318	Marsh Risk Consulting Limitada	Chile
319	Marsh Risk Consulting Ltda.	Colombia
320	Marsh Risk Consulting Services S.r.L.	Italy
321	Marsh Risk Consulting, S.L.	Spain
322	Marsh S.A. Corredores De Seguros	Chile
323	Marsh S.A.S.	France
324	Marsh S.p.A.	Italy
325	Marsh s.r.o.	Czech Republic
326	Marsh s.r.o.	Slovakia
327	Marsh SA [Argentina]	Argentina
328	Marsh SA [Belgium]	Belgium
329	Marsh SA [Luxembourg]	Luxembourg
330	Marsh SA [Uruguay]	Uruguay
331	Marsh Saldana Inc.	Puerto Rico
332	Marsh Saudi Arabia Insurance & Reinsurance Brokers	Saudi Arabia
333	Marsh Secretarial Services Limited	United Kingdom
	Marsh Semusa, S.A.	Panama
334		
335	Marsh Services Limited	United Kingdom
336	Marsh Services Spolka z.o.o.	Poland
337	Marsh SIA	Latvia
338	Marsh Sigorta ve Reasurans Brokerligi Anonim Sirketi	Turkey
339	Marsh Spolka z.o.o.	Poland
340	Marsh Szolgaltato Kft.	Hungary
341	Marsh Takaful Brokers (Malaysia) Sdn Bhd	Malaysia
342	Marsh Treasury Services (Dublin) Limited	Ireland
343	Marsh Treasury Services Limited	United Kingdom
344	Marsh Tunisia S.a.r.l.	Tunisia
345	Marsh Uganda Limited	Uganda
346	Marsh UK Limited	United Kingdom
347	Marsh USA (India) Inc.	United States
348	Marsh USA Borrower LLC	United States
349	Marsh USA Inc.	United States
350	Marsh Venezuela C.A. Sociedad de Corretaje de Seguros	Venezuela, Bolivarian Republic of
351	Marsh Vietnam Insurance Broking Company Ltd	Vietnam
352	Marsh Zambia Limited	Zambia
353	Marsh Zimbabwe Holdings (Private) Limited	Zimbabwe
354	Marsh, Lda.	Portugal
355	Marsh, S.A. Mediadores de Seguros	Spain
356	Matthiessen Assurans AB	Sweden
357	Mercer (Argentina) S.A.	Argentina
358	Mercer (Australia) Pty Ltd	Australia
359	Mercer (Austria) GmbH	Austria
360	Mercer (Belgium) SA-NV	Belgium
361	Mercer (Canada) Limited/Mercer (Canada) Limitee	Canada

362		
302	Mercer (China) Limited	China
363	Mercer (Colombia) Ltda.	Colombia
364	Mercer (Danmark) A/S	Denmark
365	Mercer (Finland) OY	Finland
366	Mercer (France) SAS	France
367	Mercer (Hong Kong) Limited	Hong Kong
368	Mercer (Ireland) Limited	Ireland
369	Mercer (Malaysia) Sdn. Bhd.	Malaysia
370	Mercer (N.Z.) Limited	New Zealand
371	Mercer (Nederland) B.V.	Netherlands
372	Mercer (Norge) AS	Norway
373	Mercer (Polska) Sp.z o.o.	Poland
374	Mercer (Portugal) Lda	Portugal
375	Mercer (Singapore) Pte. Ltd.	Singapore
376	Mercer (Sweden) AB	Sweden
377	Mercer (Taiwan) Ltd.	Taiwan
378	Mercer (Thailand) Ltd.	Thailand
379	Mercer (US) Inc.	United States
380	Mercer Administration Services (Australia) Pty Limited	Australia
381	Mercer Africa Limited	United Kingdom
382	Mercer Asesores de Seguros S.A.	Argentina
383	Mercer Broking Ltd.	Taiwan
384	Mercer Career, Unipessoal Lda	Portugal
385	Mercer Consultation (Quebec) Ltee.	Canada
386	Mercer Consulting (Australia) Pty Ltd	Australia
387	Mercer Consulting (Chile) Limitada	Chile
388	Mercer Consulting (France) SAS	France
389	Mercer Consulting (India) Private Limited	India
390	Mercer Consulting B.V.	Netherlands
391	Mercer Consulting Group, Inc.	United States
392	Mercer Consulting Holdings Sdn. Bhd.	Malaysia
393	Mercer Consulting Limited	United Kingdom
394	Mercer Consulting Middle East Limited	United Arab Emirates
395	Mercer Consulting Venezuela, C.A.	Venezuela, Bolivarian Republic of
396	Mercer Consulting, S.L.U.	Spain
397	Mercer Corredores de Seguros Limitada	Chile
398	Mercer Corretora de Seguros Ltda	Brazil
399	Mercer Danismanlik Anonim Sirketi	Turkey
400	Mercer Deutschland GmbH	Germany
401	Mercer Employee Benefits - Medicacao de Seguros Unipessoal Lda.	Portugal
402	Mercer Employee Benefits Limited	United Kingdom
403	Mercer Financial Advice (Australia) Pty Ltd	Australia
404	Mercer Financial Services Limited	Ireland
405	Mercer Financial Services Limited liability company	Morocco
406	Mercer Financial Services Middle East Limited	United Arab Emirates
	Mercer Global Investments Canada Limited	Canada
407	Mercer Global Investments Canada Ellinted	Callada

408	Mercer Global Investments Europe Limited	Ireland
409	Mercer Global Investments Management Limited	Ireland
410	Mercer Health & Benefits (Singapore) Pte. Ltd.	Singapore
411	Mercer Health & Benefits Administration LLC	United States
412	Mercer Health & Benefits LLC	United States
413	Mercer Holdings, Inc.	United States
414	Mercer Holdings, Inc. [Philippines]	Philippines
415	Mercer HR Consulting Borrower LLC	United States
416	Mercer HR Services, LLC	United States
417	Mercer Human Resource Consulting Ltda	Brazil
418	Mercer Human Resource Consulting S.A. de C.V.	Mexico
419	Mercer ICC Limited	Guernsey
420	Mercer Investment Consulting Limited	Ireland
421	Mercer Investment Consulting LLC	United States
422	Mercer Investment Management, Inc.	United States
423	Mercer Investment Solutions (Singapore) Pte. Ltd.	Singapore
424	Mercer Investment Solutions Ltd.	Japan
425	Mercer Investments (Australia) Limited	Australia
426	Mercer Investments (Hong Kong) Limited	Hong Kong
427	Mercer Investments (Japan), Ltd	Japan
428	Mercer Investments (New Zealand) Limited	New Zealand
429	Mercer Ireland Holdings Limited	Ireland
430	Mercer Italia Srl Socio Unico	Italy
431	Mercer Japan Ltd.	Japan
432	Mercer Korea Co. Ltd.	Korea, Republic of
433	Mercer Limited	United Kingdom
434	Mercer LLC	United States
435	Mercer Master Trustees Limited	Ireland
436	Mercer Mauritius Ltd.	Mauritius
437	Mercer MC Consulting Borrower LLC	United States
438	Mercer Oliver Wyman Holding B.V.	Netherlands
439	Mercer Outsourcing (Australia) Pty Ltd	Australia
440	Mercer Outsourcing, S.L.U.	Spain
441	Mercer Pensionsfonds AG	Germany
442	Mercer Pensionsraadgivning A/S	Denmark
443	Mercer Philippines, Inc.	Philippines
444	Mercer Private Investment Partners IV General Partner S.a.r.l.	Luxembourg
445	Mercer Private Markets Advisers (US) AG	Switzerland
446	Mercer Private Markets AG	Switzerland
447	Mercer Services Poland Sp. z.o.o.	Poland
448	Mercer Sigorta Brokerligi Anonim Sirketi	Turkey
449	Mercer South Africa (Pty) Limited	South Africa
450	Mercer Superannuation (Australia) Limited	Australia
451	Mercer Switzerland Inc.	Switzerland
452	Mercer System Services LLC	United States
453	Mercer Technology Acquisitions Limited	United Kingdom
	Wereer recimology Acquisitions Elimited	Office Kingdom

454	Mercer Treuhand GmbH	Germany
455	Mercer Trust Company, LLC	United States
456	Mercer Trustees Limited	Ireland
457	Mercer Trustees Limited	United Kingdom
458	Mercer WorkforcePro LLC	United States
459	Mercer, Agente de Seguros, S.A. de C.V.	Mexico
460	Mercury Insurance Services Pty Ltd	Australia
461	MM Risk Services Pty Ltd (for dissolution)	Australia
462	MMA Mid-Atlantic Employee LLC	United States
463	MMA Securities LLC	United States
464	MMB Consultores S.A.	Argentina
465	MMC (Singapore) Holdings Pte. Ltd.	Singapore
466	MMC 28 State Street Holdings Inc.	United States
467	MMC Borrower LLC	United States
468	MMC Brazilian Holdings B.V.	Netherlands
469	MMC Capital, Inc.	United States
470	MMC Cascade Regional Holdings, LLC	United States
471	MMC France Holdings (Luxembourg) S.a.r.I.	Luxembourg
472	MMC GP III, Inc.	United States
473	MMC Group Services sp. z o.o.	Poland
474	MMC Holdings (Australia) Pty Ltd	Australia
475	MMC Holdings (New Zealand) ULC	New Zealand
476	MMC Holdings (UK) Limited	United Kingdom
477	MMC International Finance (Barbados) SRL	Barbados
478	MMC International Holdings LLC	United States
479	MMC International Limited	United Kingdom
480	MMC International Treasury Centre Limited	United Kingdom
481	MMC Middle East Holdings Limited	United Kingdom
482	MMC Poland Holdings B.V.	Netherlands
483	MMC Realty, Inc.	United States
484	MMC Regional Asia Holdings B.V.	Netherlands
485	MMC Regional Caribbean Holdings, Ltd.	Bermuda
486	MMC Regional Europe Holdings B.V.	Netherlands
487	MMC Regional LATAM Holdings B.V.	Netherlands
488	MMC Securities (Europe) Limited	United Kingdom
489	MMC Securities LLC	United States
490	MMC Treasury Holdings (UK) Limited	United Kingdom
491	MMC UK Group Limited	United Kingdom
492	MMC UK Pension Fund Trustee Limited	United Kingdom
493	MMOW Limited	United Kingdom
494	MMRC LLC	United States
495	Mountlodge Limited	United Kingdom
496	MOW Holding LLC	United States
497	MPIP III GP LLC	United States
498	MPIP IV GP LLC	United States
499	Muir Beddal (Zimbabwe) Limited	Zimbabwe

500 National Economic Research Associates, Inc.         United States           510 National Economic Research Associates, Inc.         United States           522 NERA Australia Pty. Ltd.         Australia           503 NERA Gonomic Consulting GmbH         Germany           505 NERA Economic Consulting Limited         New Zealand           506 NERA Economic Consulting Limited         New Zealand           507 NERA SR.         Italy           508 NERA SS         France           509 NERA SAS         France           501 NERA SAS         France           502 NERA SAS         United States           510 Nebrouger Noble Lowndes GmbH         Germany           511 Nomany Reinsurance Company Limited         Bermuda           512 Northern Alliance Brokers Limited         United Kingdom           513 OKD Insurance Brokers Limited         United Kingdom           514 Oliver Wyman (Hong Kong) Limited         Bermuda           515 Oliver Wyman (Hong Kong) Limited         Bermuda           516 Oliver Wyman (Hong Kong) Limited         Hong Kong           517 Oliver Wyman AB         Switzorland           518 Oliver Wyman AB         Switzorland           519 Oliver Wyman AB         Switzorland           510 Oliver Wyman AB         Witzorland			
502         NERA Australia Pty-Ltd.         Australia           503         NERA Conomic Consulting GmbH         Gormany           504         NERA Economic Consulting Limited         New Zealand           505         NERA SC         Italy           507         NERA SAS         France           508         NERA JUL Limited         United Kingdom           509         NetComplisurance Corp.         United States           510         NetDurger Nobite Lowndes GmbH         Gormany           511         Northern Alliance Company Limited         Barmuda           512         Northern Alliance Brokers Limited         United Kingdom           513         OKD Insurance Brokers Limited         United Kingdom           514         Oliver Wyman (Fermuda) Limited         Barmuda           515         Oliver Wyman (Fermuda) Limited         Bermuda           516         Oliver Wyman (Fermuda) Limited         Bermuda           517         Oliver Wyman (Fermuda) Limited         Bermuda           518         Oliver Wyman (Fermuda) Limited         United Kingdom           519         Oliver Wyman (Fermuda) Limited         United Kingdom           520         Oliver Wyman (Fermuda) Limited         United Kingdom           521	500	National Economic Research Associates, Inc.	United States
503         NERA do Brasil Lkda. (for dissolution)         Brazil           504         NERA Economic Consulting GmbH         Germany           508         NERA S.C.         Italy           509         NERA S.R.L.         Italy           507         NERA S.S.         France           508         NERA UK Limited         United States           509         Net Comp Insurance Corp.         United States           500         Net Comp Insurance Corp.         United States           510         Neburger Noble Lowndes GmbH         Germany           511         Normandy Reinsurance Company Limited         Barmuda           512         Norhern Alliance Brokers Limited         United Kingdom           513         OKD Insurance Brokers Limited         United Kingdom           514         Oliver Wyman (Eng Kong) Limited         Barmuda           515         Oliver Wyman (Eng Kong) Limited         Hong Kong           516         Oliver Wyman (Fong Kong) Limited         Hong Kong           517         Oliver Wyman (Fong Kong) Limited         Hong Kong           518         Oliver Wyman (Fong Kong) Limited         Hong Kong           519         Oliver Wyman (Fong Kong) Limited         Wheterlands           510         <	501	National Economic Research Associates, Inc.	United States
504         NERA Economic Consulting Limited         Qermany           505         NERA S SR.L.         taly           507         NERA S.S.L.         taly           508         NERA S.S.S.         France           509         NERA S.S.S.         France           508         NERA D.K. Limited         United Kingdom           509         NeComp Insurance Corp.         United Kingdom           510         Neubruger Nobio Lowndes GribH         Germany           511         Normany Reinsurance Gompany Limited         Bermuda           512         Northern Alliance Brokers Limited         United Kingdom           513         OKD Insurance Brokers Limited         United Kingdom           514         Oliver Wyman (Bermuda) Limited         Bermuda           515         Oliver Wyman (Hong Kong) Limited         Bermuda           516         Oliver Wyman AG         Sweden           517         Oliver Wyman AG         Switzerland           518         Oliver Wyman AG         Switzerland           519         Oliver Wyman Energy Consulting Limited (in liquidation)         United Kingdom           520         Oliver Wyman Energy Consulting Limited (in liquidation)         United Kingdom           521         Oliver W	502	NERA Australia Pty. Ltd.	Australia
505         NERA Economic Consulting Limited         New Zealand           508         NERA S.R.L.         Italy           509         NERA S.S.B.         France           508         NERA UK Limited         United Kingdom           509         Net Down Insurance Corp.         United Kingdom           510         Neuburger Noble Lowndes GmbH         Germany           511         Normandy Reinsurance Company Limited         Bermuda           512         Northern Alliance Brokers Limited         United Kingdom           513         OKD Insurance Brokers Limited         United Kingdom           514         Oliver Wyman (Hong Kong) Limited         Bermuda           515         Oliver Wyman (Hong Kong) Limited         Hong Kong           516         Oliver Wyman (Hong Kong) Limited         Hong Kong           517         Oliver Wyman (Hong Kong) Limited         Winted States           518         Oliver Wyman (Hong Kong) Limited         United States           519         Oliver Wyman (Hong Kong) Limited         Winted States           510         Oliver Wyman (Hong Kong) Limited         United States           510         Oliver Wyman (Hong Kong)         Winted Kingdom           511         Oliver Wyman (Consulting Limited (In liquidation)	503	NERA do Brasil Ltda. (for dissolution)	Brazil
NERA S.R.L.   Italy	504	NERA Economic Consulting GmbH	Germany
507         NERA JK LILIMITED         United Kingdom           508         NERA UK Limited         United Kingdom           509         NetComp Insurance Corp.         United States           510         Neuburger Noble Lowndes GmbH         Germany           511         Normandy Reinsurance Company Limited         Bermuda           512         Northern Alliance Brokers Limited         United Kingdom           513         OKD Insurance Brokers Limited         United Kingdom           514         Oliver Wyman (Hong Kong) Limited         Bermuda           515         Oliver Wyman (Hong Kong) Limited         Hong Kong           516         Oliver Wyman (Hong Kong) Limited         Hong Kong           517         Oliver Wyman AG         Switzerland           518         Oliver Wyman B.         Switzerland           519         Oliver Wyman Consulting (Shanghai) Ltd         China           521         Oliver Wyman Consulting Limited (in liquidation)         United Kingdom           522         Oliver Wyman Energy Consulting Limited         United Kingdom           523         Oliver Wyman Energy Consulting Limited         United Kingdom           524         Oliver Wyman Energy US Limited         United Kingdom           525         Oliver Wyman Energy	505	NERA Economic Consulting Limited	New Zealand
508         NERA UK Limited         United Kingdom           509         NetComp Insurance Corp.         United States           510         Neuburger Noble Lowndes GmbH         Germany           511         Northern Alliance Brokers Limited         Bermuda           512         Northern Alliance Brokers Limited         United Kingdom           513         OKD Insurance Brokers Limited         United Kingdom           514         Oliver Wyman (Bermuda) Limited         Bermuda           515         Oliver Wyman (Hong Kong) Limited         Bermuda           516         Oliver Wyman (Hong Kong) Limited         Bermuda           517         Oliver Wyman AB         Sweden           518         Oliver Wyman Actuarial Consulting, Inc.         United States           519         Oliver Wyman Actuarial Consulting, Inc.         United States           510         Oliver Wyman Consulting Limited (In Inquidation)         United Kingdom           520         Oliver Wyman Consulting Limited (In Inquidation)         United Kingdom           521         Oliver Wyman Energy Consulting Limited         United Kingdom           522         Oliver Wyman Energy Group Limited         United Kingdom           523         Oliver Wyman Energy Us Limited         United Kingdom	506	NERA S.R.L.	Italy
509         NetComp Insurance Corp.         United States           510         Neuburger Noble Lowndes GmbH         Germany           511         Normandy Reinsurance Company Limited         Bermuda           512         Northern Alliance Brokers Limited         United Kingdom           513         OKD Insurance Brokers Limited         United Kingdom           514         Oliver Wyman (Bermuda) Limited         Bermuda           515         Oliver Wyman (Hong Kong) Limited         Bermuda           516         Oliver Wyman (Hong Kong) Limited         Hong Kong           517         Oliver Wyman AG         Switzerland           518         Oliver Wyman AG         Switzerland           519         Oliver Wyman Consulting, Imman Lid         China           520         Oliver Wyman Consulting Limited (in liquidation)         United Kingdom           521         Oliver Wyman Consulting Limited (in liquidation)         United Kingdom           522         Oliver Wyman Energy Consulting Limited         United Kingdom           523         Oliver Wyman Energy Consulting Limited         United Kingdom           524         Oliver Wyman Energy US Limited         United Kingdom           525         Oliver Wyman Energy US Limited         United Kingdom           526	507	NERA SAS	France
510         Neuburger Noble Lowndes GmbH         Germany           511         Normandy Reinsurance Company Limited         Bermuda           512         Northern Alliance Brokers Limited         United Kingdom           513         OKD Insurance Brokers Limited         United Kingdom           514         Oliver Wyman (Bermuda) Limited         Benmuda           515         Oliver Wyman (Rong) Kong) Limited         Hong Kong           516         Oliver Wyman Rong Kong) Limited         Hong Kong           517         Oliver Wyman AB         Sweden           518         Oliver Wyman Actuarial Consulting, Inc.         United States           519         Oliver Wyman AC         Switzerland           519         Oliver Wyman Consulting (Shanghai) Ltd         China           520         Oliver Wyman Consulting (Shanghai) Ltd         China           521         Oliver Wyman Consultina em Estrategia de Negocios Ltda.         Brazil           522         Oliver Wyman Energy Consulting Limited         United Kingdom           523         Oliver Wyman Energy Group Limited         United Kingdom           524         Oliver Wyman Energy Holdings Limited         United Kingdom           525         Oliver Wyman Energy Holdings Limited         United Kingdom <td< td=""><td>508</td><td>NERA UK Limited</td><td>United Kingdom</td></td<>	508	NERA UK Limited	United Kingdom
511         Northern Alliance Brokers Limited         United Kingdom           512         Northern Alliance Brokers Limited         United Kingdom           513         OKD Insurance Brokers Limited         United Kingdom           514         Oliver Wyman (Bermuda) Limited         Bermuda           515         Oliver Wyman (Hong Kong) Limited         Hong Kong           516         Oliver Wyman AB         Sweden           517         Oliver Wyman Actuarial Consulting, Inc.         United States           518         Oliver Wyman AC         Switzerland           519         Oliver Wyman B.V.         Netherlands           520         Oliver Wyman Consulting Limited (in liquidation)         United Kingdom           521         Oliver Wyman Consulting Limited (in liquidation)         United Kingdom           522         Oliver Wyman Energy Consulting Limited         United Kingdom           524         Oliver Wyman Energy Consulting Limited         United Kingdom           525         Oliver Wyman Energy Holdings Limited         United Kingdom           526         Oliver Wyman Energy US Limited         United Kingdom           527         Oliver Wyman Energy US Limited         United Kingdom           528         Oliver Wyman Energy US Limited         United Kingdom	509	NetComp Insurance Corp.	United States
512         Northern Alliance Brokers Limited         United Kingdom           513         OKD Insurance Brokers Limited         Bermuda           514         Oliver Wyman (Bermuda) Limited         Bermuda           515         Oliver Wyman (Hong Kong) Limited         Hong Kong           516         Oliver Wyman AB         Sweden           517         Oliver Wyman Actuarial Consulting, Inc.         United States           518         Oliver Wyman AC         Switzerland           519         Oliver Wyman Consulting, Immed         China           520         Oliver Wyman Consulting (Shanghai) Ltd         China           521         Oliver Wyman Consulting Limited (in liquidation)         United Kingdom           522         Oliver Wyman Consulting Limited         United Kingdom           523         Oliver Wyman Energy Coroup Limited         United Kingdom           524         Oliver Wyman Energy Group Limited         United Kingdom           525         Oliver Wyman Energy US Limited         United Kingdom           526         Oliver Wyman Energy US Limited         United Kingdom           527         Oliver Wyman Energy US Limited         United Kingdom           528         Oliver Wyman Energy US Limited         United Kingdom           530	510	Neuburger Noble Lowndes GmbH	Germany
513       OKD Insurance Brokers Limited       United Kingdom         514       Oliver Wyman (Bermuda) Limited       Bermuda         515       Oliver Wyman (Hong Kong) Limited       Hong Kong         516       Oliver Wyman AB       Sweden         517       Oliver Wyman Actuarial Consulting, Inc.       United States         518       Oliver Wyman Actuarial Consulting, Inc.       United States         519       Oliver Wyman B.V.       Netherlands         520       Oliver Wyman Consulting (Shanghai) Ltd       China         521       Oliver Wyman Consulting Limited (in liquidation)       United Kingdom         522       Oliver Wyman Consulting Limited (in liquidation)       United Kingdom         523       Oliver Wyman Energy Consulting Limited       United Kingdom         524       Oliver Wyman Energy Forbulands       United Kingdom         525       Oliver Wyman Energy US Limited       United Kingdom         526       Oliver Wyman Energy US Limited       United Kingdom         527       Oliver Wyman Energy US Limited       United Kingdom         528       Oliver Wyman Group KK       Japan         530       Oliver Wyman Group KK       Japan         531       Oliver Wyman Scrut       Russian Federation <t< td=""><td>511</td><td>Normandy Reinsurance Company Limited</td><td>Bermuda</td></t<>	511	Normandy Reinsurance Company Limited	Bermuda
514         Oliver Wyman (Bermuda) Limited         Bermuda           515         Oliver Wyman (Hong Kong) Limited         Hong Kong           516         Oliver Wyman AB         Sweden           517         Oliver Wyman AC (United States)           518         Oliver Wyman AG         Switzerland           519         Oliver Wyman BV.         Netherlands           520         Oliver Wyman Consulting (Shanghai) Ltd         China           521         Oliver Wyman Consulting Limited (in liquidation)         United Kingdom           522         Oliver Wyman Consulting Emetategia de Negocios Ltda.         Brazil           523         Oliver Wyman Energy Consulting Limited         United Kingdom           524         Oliver Wyman Energy Group Limited         United Kingdom           525         Oliver Wyman Energy Holdings Limited         United Kingdom           526         Oliver Wyman Energy US Limited         United Kingdom           527         Oliver Wyman Energy US Limited         United Kingdom           528         Oliver Wyman Facture         United Kingdom           529         Oliver Wyman Group KK         Japan           530         Oliver Wyman Group KK         Japan           531         Oliver Wyman Limited         United Kingdom	512	Northern Alliance Brokers Limited	United Kingdom
515     Oliver Wyman (Hong Kong) Limited     Hong Kong       516     Oliver Wyman AB     Sweden       517     Oliver Wyman AC     United States       518     Oliver Wyman AG     Switzerland       519     Oliver Wyman B.V.     Netherlands       520     Oliver Wyman Consulting (Shanghai) Ltd     China       521     Oliver Wyman Consulting Limited (in liquidation)     United Kingdom       522     Oliver Wyman Consultoria em Estrategia de Negocios Ltda.     Brazil       523     Oliver Wyman Energy Consulting Limited     United Kingdom       524     Oliver Wyman Energy Group Limited     United Kingdom       525     Oliver Wyman Energy Holdings Limited     United Kingdom       526     Oliver Wyman Energy US Limited     United Kingdom       527     Oliver Wyman FZ-LLC     United Arab Emirates       528     Oliver Wyman Group KK     Japan       529     Oliver Wyman Limited     United Kingdom       531     Oliver Wyman Limited Liability Company     Greece       532     Oliver Wyman Limited Liability Company     Greece       533     Oliver Wyman Pty. Ltd.     Korea, Republic of       534     Oliver Wyman Pty. Ltd.     Australia       535     Oliver Wyman SAS     Colombia       537     Oliver Wyman SAS	513	OKD Insurance Brokers Limited	United Kingdom
516Oliver Wyman ABSweden517Oliver Wyman Actuarial Consulting, Inc.United States518Oliver Wyman AGSwitzerland519Oliver Wyman BV.Netherlands520Oliver Wyman Consulting (Shanghai) LtdChina521Oliver Wyman Consulting Limited (in liquidation)United Kingdom522Oliver Wyman Consulting Limited (in liquidation)Brazil523Oliver Wyman Energy Consulting LimitedUnited Kingdom524Oliver Wyman Energy Croup LimitedUnited Kingdom525Oliver Wyman Energy Holdings LimitedUnited Kingdom526Oliver Wyman Energy US LimitedUnited Kingdom527Oliver Wyman FactucUnited Kingdom528Oliver Wyman FactucUnited Kingdom529Oliver Wyman Group KKJapan530Oliver Wyman LimitedUnited Kingdom531Oliver Wyman Limited Liability CompanyGreece532Oliver Wyman Limited Liability CompanyGreece533Oliver Wyman Ltd.Korea, Republic of534Oliver Wyman Ptc. Ltd.Singapore535Oliver Wyman Ptc. Ltd.Singapore536Oliver Wyman S.L.Spain537Oliver Wyman S.A.S.Colombia538Oliver Wyman S.A.S.Colombia539Oliver Wyman S.A.S.Colombia540Oliver Wyman S.A. Bhd.Malaysia541Oliver Wyman S.D. S. de R.L. de C.V.Mexico542Oliver Wyman S.O. S. de R.L. de C.V. <td>514</td> <td>Oliver Wyman (Bermuda) Limited</td> <td>Bermuda</td>	514	Oliver Wyman (Bermuda) Limited	Bermuda
516Oliver Wyman ABSweden517Oliver Wyman Actuarial Consulting, Inc.United States518Oliver Wyman AGSwitzerland519Oliver Wyman BV.Netherlands520Oliver Wyman Consulting (Shanghai) LtdChina521Oliver Wyman Consulting Limited (in liquidation)United Kingdom522Oliver Wyman Consulting Limited de Negocios Ltda.Brazil523Oliver Wyman Energy Consulting LimitedUnited Kingdom524Oliver Wyman Energy Group LimitedUnited Kingdom525Oliver Wyman Energy Holdings LimitedUnited Kingdom526Oliver Wyman Energy US LimitedUnited Kingdom527Oliver Wyman FactucUnited Kingdom528Oliver Wyman FactucUnited Kingdom529Oliver Wyman Group KKJapan530Oliver Wyman LimitedUnited Kingdom531Oliver Wyman Limited Liability CompanyGreece532Oliver Wyman Limited Liability CompanyGreece533Oliver Wyman Ltd.Korea, Republic of534Oliver Wyman Ptc. Ltd.Singapore535Oliver Wyman Ptc. Ltd.Singapore536Oliver Wyman St.Spain537Oliver Wyman St.Spain538Oliver Wyman St.Spain539Oliver Wyman St.Spain530Oliver Wyman St.Spain531Oliver Wyman St.Spain532Oliver Wyman St.Spain533Oliver Wyman St.Spa	515	Oliver Wyman (Hong Kong) Limited	Hong Kong
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532Oliver Wyman Ltd.Russian Federation533Oliver Wyman Ltd.Korea, Republic of534Oliver Wyman Pte. Ltd.Singapore535Oliver Wyman Pty. Ltd.Australia536Oliver Wyman S.A.S.Colombia537Oliver Wyman S.L.Spain538Oliver Wyman S.r.l.Italy539Oliver Wyman SASFrance540Oliver Wyman Sdn. Bhd.Malaysia541Oliver Wyman Services LimitedUnited Kingdom542Oliver Wyman Servicios, S. de R.L. de C.V.Mexico543Oliver Wyman SNCFrance544Oliver Wyman sp. z o.o.Poland	530	·	United Kingdom
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535Oliver Wyman Pty. Ltd.Australia536Oliver Wyman S.A.S.Colombia537Oliver Wyman S.L.Spain538Oliver Wyman S.r.I.Italy539Oliver Wyman SASFrance540Oliver Wyman Sdn. Bhd.Malaysia541Oliver Wyman Services LimitedUnited Kingdom542Oliver Wyman Servicios, S. de R.L. de C.V.Mexico543Oliver Wyman SNCFrance544Oliver Wyman sp. z o.o.Poland	534	•	
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543 Oliver Wyman SNC France 544 Oliver Wyman sp. z o.o. Poland		•	
544 Oliver Wyman sp. z o.o. Poland		·	
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546	Oliver Wyman, Inc.	United States
547	Oliver Wyman, S. de R.L. de C.V.	Mexico
548	Oliver, Wyman Limited/Oliver, Wyman limitee	Canada
549	Omega Indemnity (Bermuda) Limited	Bermuda
550	Online Benefits Limited	United Kingdom
551	Organizacion Brockman y Schuh S.A. de C.V.	Mexico
552	Osbornes Insurances Oxford Limited (in liquidation)	United Kingdom
553	Pallas Marsh Servicos Ltda.	Brazil
554	Pavilion Alternatives Group Limited	United Kingdom
555	Pavilion Financial Corporation Holdings UK Limited	United Kingdom
556	Pension Trustees Limited	United Kingdom
557	Pensionsservice Benefit Network Sverige AB	Sweden
558	Perils AG	Switzerland
559	PFT Limited	United Kingdom
560	PI Indemnity Company, Designated Activity Company	Ireland
561	Potomac Insurance Managers, Inc.	United States
562	Professional Claims Handling Limited (in liquidation)	United Kingdom
563	Promerit AG	Germany
564	Promerit Hungary Kft	Hungary
565	Promerit Schweiz AG	Switzerland
566	PT Marsh Indonesia	Indonesia
567	PT Marsh Reinsurance Brokers Indonesia	Indonesia
568	PT Mercer Indonesia	Indonesia
569	PT Oliver Wyman Indonesia	Indonesia
570	PT Quantum Computing Services	Indonesia
571	PT Quantum Investments	Indonesia
572	PT Quantum Support Services	Indonesia
573	Pymetrics, Inc.	United States
574	R G Ford Brokers (Essex) Limited	United Kingdom
575	R G Ford Brokers Limited	United Kingdom
576	R R B Beratungsgesellschaft fuer Altersversorgung mbh	Germany
577	R. Mees & Zoonen Holdings B.V.	Netherlands
578	realright GmbH	Germany
579	Regional Insurance Group Limited	United Kingdom
580	Resource Benefit Associates	Nigeria
581	Rightpath Reinsurance SPC, Ltd.	Cayman Islands
582	Rivers Group Limited	United Kingdom
583	Rockefeller Risk Advisors, Inc.	United States
584	Rutherfoord International, Inc.	United States
585	SAFCAR-Marsh	Mali
586	SBJ Holdings Limited	United Kingdom
587	SBJ Stephenson Group Limited	United Kingdom
588	SCIB (Bermuda) Limited	Bermuda
589	SCM Global Real Estate Select GP LLC	United States
590	SCM Infrastructure General Partner S.a r.l.	Luxembourg
591	SCM International Private Equity Select III GP LLC	United States

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639         The Carpenter Management Corporation         United States           640         The Insurance Partnership Holdings Limited         United Kingdom           641         The Positive Ageing Company Limited         United Kingdom           642         The Positive Ageing Company Limited         United Kingdom           643         The Purple Partnership Limited         United Kingdom           644         Think Big Lumited         United Kingdom           645         Thomsons Online Benefits (HK) Ltd.         Hong Kong           646         Thomson Sonline Benefits It Imited         United Kingdom           647         Thomsons Online Benefits It Imited         United Kingdom           648         Thomsons Online Benefits Pte Ltd.         Singapore           649         Thomsons Online Benefits Pte Ltd.         Romania           650         Torrent Government Contracting Services, LLC         United States           651         Torrent Insurance Services, LLC         United States           652         Torrent Technologies, Inc.         United Kingdom           653         Tower Hill Limited         United Kingdom           654         Tower Hill Limited         United Kingdom           655         Tower Place Developments (West) Limited         United Kingdom     <	638	The Benefit Express Limited	United Kingdom
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### CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We consent to the incorporation by reference in Registration Statements on Form S-8 (Registration File Nos. 2-58660, 33-48807, 33-59603, 333-209684, 333-146400, 333-176085, 333-209684, 333-226429, and 333-226421), Registration Statements on Form S-3 (Registration File Nos. 333-67543, 333-108566, 333-136820, 333-161797, 333-183214, 333-206217, and 333-226427), and Registration Statement on Form S-4 (Registration File No. 333-163405) of our reports dated February 21, 2019, relating to the consolidated financial statements of Marsh & McLennan Companies, Inc. and subsidiaries (the "Company"), and the effectiveness of the Company's internal control over financial reporting, appearing in this Annual Report on Form 10-K of Marsh & McLennan Companies, Inc. for the year ended December 31, 2018.

/s/ Deloitte & Touche LLP New York, New York February 21, 2019

#### **CERTIFICATIONS**

- I, Daniel S. Glaser, certify that:
  - 1. I have reviewed this Annual Report on Form 10-K of Marsh & McLennan Companies, Inc. (the "registrant");
- 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
  - a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
  - b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
  - d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- 5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
  - a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
  - b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: February 21, 2019 /s/ Daniel S. Glaser

Daniel S. Glaser

President and Chief Executive Officer

#### **CERTIFICATIONS**

- I, Mark C. McGivney, certify that:
  - 1. I have reviewed this Annual Report on Form 10-K of Marsh & McLennan Companies, Inc. (the "registrant");
- 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
  - a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
  - b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
  - d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- 5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
  - a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
  - b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: February 21, 2019 /s/ Mark C. McGivney

Mark C. McGivney Chief Financial Officer

### **Certification of Chief Executive Officer and Chief Financial Officer**

The certification set forth below is being submitted in connection with the Annual Report on Form 10-K for the year ended December 31, 2018 of Marsh & McLennan Companies, Inc. (the "Report") for the purpose of complying with Rule 13a-14(b) or Rule 15d-14(b) under the Securities Exchange Act of 1934, as amended (the "Exchange Act"), and Section 1350 of Chapter 63 of Title 18 of the United States Code.

Daniel S. Glaser, the President and Chief Executive Officer, and Mark C. McGivney, the Chief Financial Officer, of Marsh & McLennan Companies, Inc. each certifies that, to the best of his knowledge:

- 1. the Report fully complies with the requirements of Section 13(a) or 15(d) of the Exchange Act; and
- 2. the information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of Marsh & McLennan Companies, Inc.

Date: February 21, 2019 /s/ Daniel S. Glaser

Daniel S. Glaser

President and Chief Executive Officer

Date: February 21, 2019 /s/ Mark C. McGivney

Mark C. McGivney Chief Financial Officer