

Irish Statutory Accounts

WILLIS TOWERS WATSON PLC

(Registered Number 475616)

DIRECTORS' REPORT AND CONSOLIDATED FINANCIAL STATEMENTS

FINANCIAL YEAR ENDED DECEMBER 31, 2019

IMPORTANT NOTICE TO SHAREHOLDERS

Following our redomicile to Ireland in 2009, we are required to produce Irish statutory accounts prepared under applicable Irish company law, to be filed with the Irish Companies Registration Office. We are also required to send this document to the shareholders in advance of the Annual General Meeting.

These are in addition to our financial statements prepared under applicable US securities laws, filed with the Securities and Exchange Commission on our Annual Form 10-K and sent to shareholders.

FIVE FINANCIAL YEARS ENDED DECEMBER 31 (IN MILLIONS, EXCEPT PER SHARE DATA AND PERCENTAGES)

	2019	2018	2017	2016	2015
Revenue ⁽³⁾	\$ 9,039	\$ 8,513	\$ 8,202	\$ 7,887	\$ 3,829
Total operating expenses ^{(2) (3) (4)}	\$ 7,710	\$ 7,704	\$ 7,686	\$ 7,489	\$ 3,566
Operating income ^{(2) (3) (4)}	\$ 1,329	\$ 809	\$ 516	\$ 398	\$ 263
Operating margin ^{(2) (3) (4)}	14.7%	9.5%	6.3%	5.0%	6.9%
Net income attributable to Willis Towers Watson ^{(2) (3) (4)}	\$ 1,044	\$ 695	\$ 568	\$ 450	\$ 343
Net income per diluted share ^{(1) (2) (3) (4)}	\$ 8.02	\$ 5.27	\$ 4.18	\$ 3.26	\$ 4.97
Total debt	\$ 5,617	\$ 4,575	\$ 4,535	\$ 3,865	\$ 3,266
Total Willis Towers Watson shareholders' equity ^{(2) (3) (4)}	\$ 10,249	\$ 9,852	\$ 10,126	\$ 10,065	\$ 2,199
Capitalization ratio ^{(2) (3) (4)}	35%	32%	31%	28%	60%

- (1) As set out in Note 3 to the Consolidated Financial Statements, on January 4, 2016, pursuant to the Agreement and Plan of Merger, dated June 29, 2015, as amended on November 19, 2015, between Willis Group Holdings Public Limited Company, Towers Watson & Co., and Citadel Merger Sub, Inc., a wholly-owned subsidiary of Willis formed for the purpose of facilitating this transaction ('Merger Sub'), Merger Sub merged with and into Towers Watson, with Towers Watson continuing as the surviving corporation and a wholly-owned subsidiary of Willis. As a result, net income (loss) per diluted shares has been retroactively adjusted to reflect the 1 to 2.6490 reverse stock split effected by the Company as of January 4, 2016 upon completion of the Merger.
- (2) Total operating expenses for 2015 were increased by \$50 million to reflect a settlement in principle the Company entered into on March 31, 2016 amounting to \$120 million relating to Stanford Financial Group litigation. As a consequence, net income attributable to Willis Towers Watson for 2015 was decreased by the post-tax effect of \$30 million, net income per diluted share and stockholders' equity for 2015 was decreased and the capitalization ratio for 2015 was increased. This increase in the litigation provision was recognized in Annual Form 10-K for the following year, 2016. Further details on this settlement in principle are given in Note 16 to the Consolidated Financial Statements.
- (3) As of January 1, 2018, the Company adopted ASC 606, *Revenue From Contracts With Customers*, using the modified retrospective approach and recognized the cumulative effect of initially applying ASC 606 as an adjustment to the opening balance of retained earnings, therefore the comparative periods above, 2015 to 2017, have not been restated. Further details on the transition are given in the Consolidated Financial Statements for the prior year, 2018.
- (4) As of January 1, 2019, the Company adopted ASC 842, *Leases*, using the modified retrospective approach whereby it recognized a transition adjustment at the effective date, January 1, 2019, therefore the comparative periods above, 2015 to 2018, have not been restated. Further details on the transition are given in Notes 2 and 15 to the Consolidated Financial Statements.

Definitions

Certain Definitions

The following definitions apply throughout this annual report unless the context requires otherwise:

‘We’, ‘Us’, ‘Company’, ‘Willis Towers Watson’, ‘Our’, ‘Willis Towers Watson plc’ or ‘WTW’	Willis Towers Watson Public Limited Company, a company organized under the laws of Ireland, and its subsidiaries
‘Parent Company’	Willis Towers Watson Public Limited Company (only)
‘shares’	The ordinary shares of Willis Towers Watson Public Limited Company, nominal value \$0.000304635 per share
‘Legacy Willis’ or ‘Willis’	Willis Group Holdings Public Limited Company and its subsidiaries, predecessor to Willis Towers Watson, prior to the Merger
‘Legacy Towers Watson’ or ‘Towers Watson’	Towers Watson & Co. and its subsidiaries
‘Merger’	Merger of Willis Group Holdings Public Limited Company and Towers Watson & Co. pursuant to the Agreement and Plan of Merger, dated June 29, 2015, as amended on November 19, 2015, and completed on January 4, 2016
‘Gras Savoye’	GS & Cie Groupe SAS
‘Miller’	Miller Insurance Services LLP and its subsidiaries
‘TRANZACT’	CD&R TZ Holdings, Inc. and its subsidiaries, doing business as TRANZACT
‘U.S.’	United States
‘U.K.’	United Kingdom
‘Brexit’	The United Kingdom’s exit from the European Union, which occurred on January 31, 2020.
‘E.U.’	European Union or European Union 27 (the number of member countries following the United Kingdom’s exit)
‘U.S. GAAP’	United States Generally Accepted Accounting Principles
‘IFRS(s)’	International Financial Reporting Standard(s)
‘FASB’	Financial Accounting Standards Board
‘IASB’	International Accounting Standards Board
‘ASU’	Accounting Standards Update
‘ASC’	Accounting Standards Codification
‘SEC’	Securities and Exchange Commission

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Officers and corporate information

DIRECTORS

Executive Director

John J. Haley

Non-Executive Directors

Anna C. Catalano
Victor F. Ganzi (Non-Executive Chairman)
Wendy E. Lane
Brendan R. O'Neill
Jaymin B. Patel
Linda D. Rabbitt
Paul D. Thomas
Wilhelm Zeller

SECRETARY

Nicole Napolitano

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United Kingdom

DISCLAIMER REGARDING FORWARD-LOOKING STATEMENTS

We have included in this document ‘forward-looking statements’ within the meaning of Section 27A of the Securities Act of 1933, and Section 21E of the Securities Exchange Act of 1934, which are intended to be covered by the safe harbors created by those laws. These forward-looking statements include information about possible or assumed future results of our operations. All statements, other than statements of historical facts, that address activities, events or developments that we expect or anticipate may occur in the future, including such things as our outlook, future capital expenditures, the risk that the COVID-19 coronavirus materially and adversely impacts the demand for the Company’s products and services, and/or impacts the Company’s business operations; the risks relating to the Company’s pending business combination with Aon plc announced in March 2020; ongoing working capital efforts, future share repurchases, growth in revenue, the impact of changes to tax laws on our financial results, existing and evolving business strategies and planned acquisitions (including the acquisitions of TRANZACT and Unity Group) and dispositions, demand for our services and competitive strengths, goals, the benefits of new initiatives, growth of our business and operations, our ability to successfully manage ongoing organizational and technology changes, including investments in improving systems and processes, our ability to meet our financial guidance, and plans and references to future successes, including our future financial and operating results, objectives, expectations and intentions are forward-looking statements. Also, when we use words such as ‘may,’ ‘will,’ ‘would,’ ‘anticipate,’ ‘believe,’ ‘estimate,’ ‘expect,’ ‘intend,’ ‘plan,’ ‘probably,’ or similar expressions, we are making forward-looking statements. Such statements are based upon the current beliefs and expectations of the Company’s management and are subject to significant risks and uncertainties. Actual results may differ from those set forth in the forward-looking statements. All forward-looking disclosure is speculative by its nature.

A number of risks and uncertainties that could cause actual results to differ materially from the results reflected in these forward-looking statements are identified under ‘Principal Risks and Uncertainties’ in the Directors’ Report. These statements are based on assumptions that may not come true and are subject to significant risks and uncertainties.

Although we believe that the assumptions underlying our forward-looking statements are reasonable, any of these assumptions, and therefore also the forward-looking statements based on these assumptions, could themselves prove to be inaccurate. In light of the significant uncertainties inherent in the forward-looking statements included in this report, our inclusion of this information is not a representation or guarantee by us that our objectives and plans will be achieved.

Our forward-looking statements speak only as of the date made and we will not update these forward-looking statements unless the securities laws require us to do so. In light of these risks, uncertainties and assumptions, the forward-looking events discussed in this document may not occur, and we caution you against unduly relying on these forward-looking statements.

DIRECTORS' REPORT FOR THE FINANCIAL YEAR ENDED DECEMBER 31, 2019

Summary and Basis of Presentation

The Directors present their report, together with the audited consolidated financial statements of Willis Towers Watson plc, a company incorporated in Ireland, and its subsidiaries, for the year ended December 31, 2019.

We trace our history to 1828, and are a leading global advisory, broking and solutions company that helps clients around the world turn risk into a path for growth. We provide a comprehensive offering of services and solutions to clients across four business segments: Human Capital and Benefits; Corporate Risk and Broking; Investment, Risk and Reinsurance; and Benefits Delivery and Administration.

Our clients operate on a global and local scale in a multitude of businesses and industries throughout the world and generally range in size from large, major multinational corporations to middle-market domestic and international companies. Our clients include many of the world's leading corporations, including approximately 94% of the FTSE 100, 91% of the Fortune 1000, and 93% of the Fortune Global 500 companies. We also advise the majority of the world's leading insurance companies. We work with major corporations, emerging growth companies, governmental agencies and not-for-profit institutions in a wide variety of industries, with many of our client relationships spanning decades. No one client accounted for a significant concentration of revenue in each of the years ended December 31, 2019, 2018 and 2017. We place insurance with more than 2,500 insurance carriers, none of which individually accounted for a significant concentration of the total premiums we placed on behalf of our clients in 2019, 2018 or 2017.

The Directors have elected to prepare the consolidated financial statements of Willis Towers Watson plc in accordance with Section 279 of the Companies Act 2014 which provides that a true and fair view of the assets and liabilities, financial position and profit or loss may be given by preparing the financial statements in accordance with U.S. GAAP, as defined in Section 279 of the Companies Act 2014, to the extent that the use of those principles in the preparation of the financial statements does not contravene any provision of Part 6 of the Companies Act 2014.

The Parent Company financial statements have been prepared in accordance with IFRSs as adopted by the European Union.

Principal Activities

Willis Towers Watson has more than 45,000 employees and services clients in more than 140 countries. We design and deliver solutions that manage risk, optimize benefits, cultivate talent and expand the power of capital to protect and strengthen institutions and individuals. We believe our unique perspective allows us to see the critical intersections between talent, assets and ideas - the dynamic formula that drives business performance.

Management Structure

We manage our business across four integrated reportable operating segments: Human Capital and Benefits; Corporate Risk and Broking; Investment, Risk and Reinsurance; and Benefits Delivery and Administration. Below are the percentages of revenue generated by each segment for each of the years ended December 31, 2019, 2018 and 2017.

	Year ended December 31,		
	2019	2018	2017
Human Capital and Benefits	37%	38%	39%
Corporate Risk and Broking	33%	34%	34%
Investment, Risk and Reinsurance	18%	19%	18%
Benefits Delivery and Administration	12%	9%	9%

The number of employees by segment as of the year ended December 31, 2019 is approximated below:

	December 31, 2019
Human Capital and Benefits	15,000
Corporate Risk and Broking	13,500
Investment, Risk and Reinsurance	4,100
Benefits Delivery and Administration	6,100
Corporate and Other	7,900
Total Employees	46,600

Human Capital and Benefits

The Willis Towers Watson Human Capital & Benefits ('HCB') segment provides an array of advice, broking, solutions and software for employee benefit plans, the human resources ('HR') organizations and management teams of our clients.

HCB is the largest segment of the Company. Organized into four primary offerings - Retirement; Health & Benefits; Talent & Rewards; and Technology and Administration Solutions, the segment is focused on addressing our clients' people and risk needs to help them take on the challenges of operating in a global marketplace.

HCB is strengthened with teams of international consultants that provide support in each of these areas to the global headquarters of multinational clients and their foreign subsidiaries.

Retirement — The Retirement business provides actuarial support, plan design, and administrative services for traditional pension and retirement savings plans. Our colleagues help our clients assess the costs and risks of retirement plans on cash flow, earnings and the balance sheet, the effects of changing workforce demographics on their retirement plans, and retiree benefit adequacy and security. We offer clients a full range of integrated retirement consulting services to meet the needs of all types of employers, including those that continue to offer defined benefit plans and those that are reexamining their retirement benefit strategies. We bring a particular in-depth data analysis and perspective to their decision process, because we have tracked the retirement designs of the largest public companies around the world over many years.

For clients that want to outsource some or all of their pension plan management, we offer integrated solutions that combine investment consulting, pension administration, core actuarial services, and communication and change management assistance.

Our retirement consulting relationships are generally long-term in nature, and client retention rates for this business are high. A significant portion of the revenue in this business is from recurring work, with multi-year contracts that are driven by the heavily regulated nature of employee benefit plans and our clients' annual needs for these services. Revenue for the Retirement business is somewhat seasonal, as much of our work pertains to calendar-year plan administration and reporting and compliance related to the completion of pension plan valuations; thus, the first quarter of the financial year is typically Retirement's strongest quarter. Major revenue growth drivers in this business include changes in regulations, capital market conditions, increased global demand and increased market share.

Health and Benefits — The Health & Benefits ('H&B') business provides plan management consulting, broking and administration across the full spectrum of health and group benefit programs, including medical, dental, disability, life and other coverage. Our H&B reach extends from small/mid-market clients to large market clients, across the full geographic footprint of the Company, and to most industries. We can address our clients' insured needs in more than 140 countries.

Our consultants help clients make strategic decisions on topics such as optimizing program spend; evaluating emerging coverage options (including publicly-subsidized health insurance exchanges and private exchanges in the U.S.); and dealing with above-inflation-rate increases in healthcare costs. In addition to our consulting services, we manage a number of collective purchasing initiatives, such as pharmacy and stop-loss, that allow employers to realize greater value from third-party service providers than they can achieve on their own.

With Global Benefits Management, our suite of global services supporting medical, dental and risk (life, accident and disability) programs, we have a tailored offering for multinationals. This offering includes a flexible set of ready-made solutions, proven technology, an efficient operational structure and an integrated approach to service delivery that translates to a globally consistent, high-quality experience for our clients.

Talent & Rewards — Our Talent & Rewards ('T&R') business provides advice, data, software and products to address clients' total rewards and talent issues. T&R has operations across the globe, including centralized software development and analytics teams that support the efficient delivery of services to clients.

Within our Rewards line of business, we address both executive compensation and broad-based rewards. We advise our clients' management and boards of directors on all aspects of executive pay programs, including base pay, annual bonuses, long-term incentives, perquisites and other benefits. Our focus is on aligning pay plans with an organization's business strategy and driving desired performance. Our solutions incorporate market benchmarking data and software to support compensation administration.

Our Talent line of business offers services focused on designing and implementing talent management programs and processes which help companies attract and deploy talent, engage them over time, manage their performance, develop their skills, provide them with relevant career paths, communicate with them and manage organizational change initiatives. Our solutions include employee insight and listening tools, talent assessment tools and services, and HR software to help companies administer and manage their talent management programs and analyze talent trends.

Revenue for the T&R business is partly seasonal in nature, with a meaningful amount of heightened activity in the second half of the calendar year during the annual compensation, benefits and survey cycles. While T&R enjoys long-term relationships

with many clients, work in several practices is often project-based and can be sensitive to economic changes. The business benefits from regulatory changes affecting our clients that require strategic advice, program changes and communication such as CEO pay ratio disclosure in the U.S. and gender-pay-gap reporting in the U.K. Additional areas of growth for T&R include evolving views on effective individual performance measurement and management, focus on workforce productivity improvements and labor cost reductions, globalization and digitalization of the workforce, merger and acquisition ('M&A') activity, technology-enabled approaches for measuring and understanding workforce engagement, and the opportunity to leverage HR software to improve the design, management and implementation of HR processes and programs.

Technology and Administration Solutions — Our Technology and Administration Solutions ('TAS') business provides benefits outsourcing services to hundreds of clients across multiple industries. Our TAS team focuses on clients outside of the U.S. where our services are supported by high quality administration teams using robust technology platforms. We have high client retention rates, and we are the leading administrator among the 200 largest pension plans in the U.K., as well as a leader in Germany.

For both our defined benefit and defined contribution administration services, we use highly-automated processes and web technology to enable benefit plan members to access and manage their records, perform self-service functions and improve their understanding of their benefits. Our technology also provides trustees and HR teams with timely management information to monitor activity and service levels and reduce administration costs.

Corporate Risk and Broking

The Willis Towers Watson Corporate Risk & Broking ('CRB') segment provides a broad range of risk advice, insurance brokerage and consulting services to clients worldwide ranging from small businesses to multinational corporations. The segment delivers integrated global solutions tailored to client needs and underpinned by data and analytics. CRB has placed more than \$20 billion of premium into the insurance markets on an annual basis.

CRB operates with three global offerings which aim to leverage capabilities across geographies. In these operations, we have extensive specialized experience handling diverse lines of coverage, including complex risk management programs. A key objective is to assist clients in reducing their overall cost of risk.

Property and Casualty — Property and Casualty provides property and liability insurance brokerage services across a wide range of industries including construction, real estate, healthcare and natural resources. Our construction practice provides risk management advice and brokerage services for a wide range of international construction activities. Clients of the construction practice include contractors, project owners, project managers, consultants and financiers. Our natural resources practice encompasses the oil and gas, mining, power and utilities sectors; and provides services including property damage and liability advisory and broking services for both the onshore and offshore assets of our global clients. In addition, we also arrange insurance products and services for our affinity client partners to offer to their customers, employees or members alongside, or in addition to, their principal business offerings.

Financial Lines — Financial Lines specializes in brokerage services for financial, political and credit risks. Our clients include financial institutions, professional services firms and affinity groups from around the globe that require coverage for areas ranging from business risks, such as trade credit, directors and officers and medical malpractice, to external threats, such as cyber attacks, terrorism and creditor payment protection.

Transport — Transport provides specialist expertise to the transportation, aerospace, marine and inspace industries. Our aerospace business provides insurance brokerage and risk management services to aerospace clients worldwide, including the world's leading airlines, aircraft manufacturers, air cargo handlers and other airport and general aviation companies. Our marine business provides insurance brokerage services related to hull and machinery, cargo, protection and indemnity and general marine liabilities. Our marine clients include ship owners, ship builders, logistics operations, port authorities, traders and shippers. The specialist inspace team is also prominent in providing insurance and risk management services to the space industry.

Facultative capabilities exist within each of the above offerings to serve as a broker or intermediary for insurance companies looking to arrange reinsurance solutions across various classes of risk. This allows our team of experts to deliver differentiated outcomes to their direct insureds, which in many situations are also clients of the wider Willis Towers Watson business. The facultative team also works closely with our treaty reinsurance business to structure reinsurance solutions that deliver capital and strategic benefits to insurance company clients.

Investment, Risk and Reinsurance

The Willis Towers Watson Investment, Risk and Reinsurance ('IRR') segment uses a sophisticated approach to risk, which helps clients free up capital and manage investment complexity. The segment works closely with investors, reinsurers and insurers to manage the equation between risk and return. Blending advanced analytics with deep institutional knowledge, IRR

identifies new opportunities to maximize performance. This segment provides investment consulting and discretionary management services and insurance-specific services and solutions through reserves opinions, software, ratemaking, risk underwriting and reinsurance broking.

With approximately 77% of the revenue for this segment split between North America and the U.K., this segment includes the following businesses and offerings:

Willis Re — Willis Re provides reinsurance industry clients with an understanding of how risk affects capital and financial performance and advises on the best ways to manage related outcomes. We operate this business on a global basis and provide a complete range of transactional capabilities, including in conjunction with our Willis Re Securities business (formerly Willis Towers Watson Securities), a wide variety of capital markets-based products to both insurance and reinsurance companies. Our services are underpinned by modeling, financial analysis and risk management advice.

Insurance Consulting and Technology — Insurance Consulting and Technology is a global business that provides advice and technology solutions to the insurance industry. We leverage our industry experience, strategic perspective and analytical skills to help clients measure and manage risk and capital, improve business performance and create a sustainable competitive advantage. Our services include software and technology, risk and capital management, products and product pricing, financial and regulatory reporting, financial and capital modeling, M&A, outsourcing and business management.

Investments — Investments provides advice and discretionary management solutions to improve investment outcomes for asset owners using a broad and sophisticated framework for managing risk. We provide coordinated investment advice and solutions to some of the world's largest pension funds and institutional investors based on our expertise in risk assessment, asset-liability modeling, strategic asset allocation policy setting, manager selection and investment execution.

Wholesale Insurance Broking — Wholesale Insurance Broking provides specialist broking services to retail and wholesale brokers, coverholders and direct clients in specialty lines worldwide, through Willis Towers Watson and London-based specialist broker Miller.

Innovisk — Innovisk (formerly Underwriting and Capital Management), with operations in the U.K. and North America, brings together our set of managing general agent underwriting activities for the purposes of accelerating their future development using data and technology. Within Innovisk, we act on behalf of our insurance carrier partners in product development, marketing and distribution, risk underwriting and selection, claims management and other general administrative responsibilities.

Willis Re Securities — Willis Re Securities (formerly Willis Towers Watson Securities), with offices in New York, London, and Sydney, provides capital markets services to companies involved in the insurance and reinsurance industries, including acting as underwriter for primary issuances, operating a secondary insurance-linked securities trading desk and engaging in strategic advisory work.

Max Matthiessen — Max Matthiessen is a leading advisor and broker for insurance, benefits, human resources and savings in the Nordic region. The business specializes in providing human capital and benefits administration together with providing market leading savings and insurance solutions.

Benefits Delivery and Administration

The Willis Towers Watson Benefits Delivery and Administration ('BDA') segment provides primary medical and ancillary benefit exchange and outsourcing services to active employees and retirees across both the group and individual markets.

During 2019, the Company completed the acquisition of TRANZACT, a U.S.-based provider of comprehensive, direct-to-consumer sales and marketing solutions for leading insurance carriers in the U.S. TRANZACT leverages digital, data and direct marketing solutions to deliver qualified leads, fully-provisioned sales and robust customer management systems to brands seeking to acquire and manage large numbers of consumers. TRANZACT operates as part of the BDA segment and enhances its existing Medicare broking offering, while also adding significant direct-to-consumer marketing experience.

A significant portion of the revenue in this segment is recurring in nature, driven by either the commissions from the policies we sell, or from long-term service contracts with our clients that typically range from three to five years. Revenue across this segment, including from TRANZACT, is seasonal and is generally higher in the fourth quarter as it is driven by the magnitude of annual enrollment activity.

BDA provides services via three related offerings to customers primarily in the U.S.:

Benefits Outsourcing — This service line is focused on serving active employee groups for clients across the U.S. Working closely with our colleagues in our HCB segment, we use our proprietary technology to provide a broad suite of health and welfare and pension administration outsourcing services, including tools to enable benefit modeling, decision support,

enrollment and benefit choice. Drawing on the expertise of consultants in our HCB segment, who create high-performing benefit plan designs, we believe we are well-positioned to help clients of all sizes simplify their benefits delivery, while lowering the total costs of benefits and related administration.

Individual Marketplace — This service line offers decision support processes and tools to connect consumers with insurance carriers in private individual and Medicare markets. Individual Marketplace serves both employer-based and direct-to-consumer populations through its end-to-end consumer acquisition and engagement platforms, which tightly integrate call routing technology, an efficient quoting and enrollment engine, a customer relations management system and deep links with insurance carriers. By leveraging its multiple distribution channels and diverse product portfolio, Individual Marketplace offers solutions to a broad consumer base, helping individuals compare, purchase and use health insurance products, tools and information for life.

Benefits Accounts — This service line delivers consumer-driven healthcare and reimbursement accounts, including health savings accounts, health reimbursement arrangements and other consumer-directed accounts to our benefits outsourcing, individual marketplace and employer clients.

Group Marketplace, which has been a fourth line of business within BDA in the past, is no longer a stand-alone offering. While we continue to support and offer group marketplace services to existing and prospective clients, we have consolidated the Group Marketplace service line into the Benefits Outsourcing service line within BDA for benefits administration services and our Health and Benefits business within the HCB segment for program strategy, design and financial management.

Competition

We face competition in all fields in which we operate, based on global capability, product breadth, innovation, quality of service and price. We compete with Accenture plc, Aon plc, Arthur J. Gallagher & Co., Brown & Brown Inc., Cognizant Technology Solutions Corporation, Marsh & McLennan Companies, Inc. ('Marsh & McLennan') and Robert Half International Inc., as well as with numerous specialty, regional and local firms. Marsh & McLennan and Aon plc are two of the largest providers of global risk management services. Competition for business is intense in all of our business lines and in every insurance market, and in some business lines Marsh & McLennan and Aon plc have greater market share than we do.

Competition on premium rates has also exacerbated the pressures caused by a continuing reduction in demand in some classes of business. For example, rather than purchase additional insurance through brokers, some insureds have been retaining a greater proportion of their risk portfolios than previously. Industrial and commercial companies increasingly rely upon their own subsidiary insurance companies, known as captive insurance companies, self-insurance pools, risk retention groups, mutual insurance companies and other mechanisms for funding their risks, rather than buy insurance. Additional competitive pressures have arisen and are expected to continue to arise from the entry of new market participants, such as banks, accounting firms, new brokers and insurance carriers themselves, offering risk management or transfer services.

The human capital and risk management consulting industries are highly competitive. We believe there are significant barriers to entry, and we have developed competitive advantages in providing HR consulting and risk management consulting services. We face strong competition from several sources.

Our principal competitors in the pension consulting industry are Mercer HR Consulting (a Marsh & McLennan company) and Aon plc. Beyond these large players, the global HR consulting industry is highly fragmented.

Our major competitors in the insurance consulting and software industry include Milliman, Oliver Wyman (a Marsh & McLennan company), the big four accounting firms and SunGard. Aon plc, Buck Consultants (an HIG Capital Company), Connexions (a United Healthcare company), Mercer (a Marsh & McLennan company), Automatic Data Processing and Fidelity are our primary competitors in the insurance exchange industry. With the implementation of the Patient Protection and Affordable Care Act, we also compete with the public exchanges currently run by the U.S. federal and state governments. We compete with providers of account-based health plans and consumer-directed benefits such as WageWorks and HealthEquity.

The market for our services is subject to change as a result of economic, regulatory and legislative changes, technological developments, and increased competition from established and new competitors. Regulatory and legislative actions, along with continuously evolving technological developments, will likely have the greatest impact on the overall market for our exchange products. We believe the primary factors in selecting an HR consulting or risk management services firm include reputation; the ability to provide measurable increases to shareholder value and return on investment; global scale; quality of service; and the ability to tailor services to clients' unique needs. With regard to the marketplace for individuals and active employee exchanges, we believe that clients base their decisions on a variety of factors that include the ability of the provider to deliver measurable cost savings, a strong reputation for efficient execution, a provider's capability in delivering a broad number of configurations to serve various population segments, and an innovative service delivery model and platform. For our traditional consulting and risk management services and the rapidly evolving exchange products, we believe we compete favorably with respect to these factors.

Regulation

Our business activities are subject to legal requirements and governmental and quasi-governmental regulatory supervision in all countries in which we operate. Also, such regulations may require individual or company licensing to conduct our business activities. While these requirements may vary from location to location, they are generally designed to protect our clients by establishing minimum standards of conduct and practice, particularly regarding the provision of advice and product information, as well as financial criteria. We are also subject to data privacy regulations in many countries. Our most significant regulatory regions are described below:

United States

Our activities in connection with insurance brokerage services within the U.S. are subject to regulation and supervision by state authorities. Although the scope of regulation and form of supervision may vary from state to state, insurance laws in the United States are often complex and generally grant broad discretion to supervisory authorities in adopting regulations and supervising regulated activities. That supervision generally includes the licensing of insurance brokers and agents and the regulation of the handling and investment of client funds held in a fiduciary capacity. Our continuing ability to provide insurance brokerage in the states in which we currently operate is dependent upon our compliance with the rules and regulations promulgated by the regulatory authorities in each of these states. Additionally, some of our private exchange activities, including our newly-acquired TRANZACT business which focuses on direct-to-consumer Medicare policy sales, are overseen by the Centers for Medicare & Medicaid Services, which is part of the Department of Health and Human Services. Furthermore, certain of our activities are subject to regulation under the Health Insurance Portability and Accountability Act ('HIPAA'), which is enforced by the Office for Civil Rights within the Department of Health and Human Services. As we implement and expand our direct-to-consumer sales and marketing solutions through our Benefits Delivery and Administration business, we are subject to various federal and state laws and regulations that prescribe when and how we may market to consumers (including, without limitation, the Telephone Consumer Protection Act and other telemarketing laws and the Medicare Communications and Marketing Guidelines issued by the Center for Medicare Services).

Certain of our activities are governed by other regulatory bodies, such as investment and securities licensing authorities. Our activities in connection with investment services within the United States are subject to regulation and supervision at both the federal and state levels. At the federal level, certain of our operating subsidiaries are regulated by the SEC through the Investment Company Act of 1940 and the Investment Advisers' Act of 1940; and by the Department of Labor through the Employee Retirement Income Security Act, or ERISA. In connection with the SEC regulations, we are required to file certain reports, and are subject to various marketing restrictions, among other requirements. In connection with ERISA regulations, we are restricted in the actions we can take for plans for which we serve as fiduciaries, among other matters. Our U.S. investment activities are also subject to certain state regulatory schemes.

Our Willis Re Securities business operates through its wholly-owned subsidiary, Willis Securities, Inc., a U.S.-registered broker-dealer and member of FINRA/SIPC, primarily in connection with advising on alternative risk financing transactions and investment banking services.

Our activities in connection with Third Party Administrator ('TPA') services in the United States are also subject to regulation and supervision by many state authorities. Licensing requirements and supervision vary from state to state. As with insurance brokerage services, our continuing ability to provide these services in states that regulate our activities is dependent upon our compliance with the rules and regulations promulgated from time to time by the regulatory authorities in each of these states.

United Kingdom

In the U.K., our business is regulated by the Financial Conduct Authority ('FCA').

The FCA has a sole strategic objective: to ensure that the relevant markets function well. Its operational objectives are to: secure an appropriate degree of protection for consumers; protect and enhance the integrity of the U.K. financial system; and to promote effective competition in the interests of consumers. The FCA has a wide range of rule-making, investigatory and enforcement powers (including the power to censure and fine), and conducts monitoring visits to assess our compliance with regulatory requirements. In addition, the FCA extended the Senior Managers and Certification Regime ('SMCR') which became effective on December 9, 2019 in relation to our U.K. FCA-regulated businesses. The SMCR is designed to drive improvements in culture and governance within financial services firms and to deter misconduct by increasing individual accountability to the FCA.

Brexit will generally cause an increase in regulations that are specific to the U.K. and will result in differences from the regulatory requirements of the E.U. Brexit may result in an increase in business conducted through subsidiaries domiciled in and regulated by members of the E.U. See 'Principal Risks and Uncertainties' below for a description of Brexit-related risks to the Company.

European Union

In 2005, the European Union Insurance Mediation Directive introduced rules to enable insurance and reinsurance intermediaries to operate and provide services within each member state of the European Union ('E.U.') on a basis consistent with the E.U. single market and customer protection aims. Each E.U. member state in which we operate is required to ensure that the insurance and reinsurance intermediaries resident in their country are registered with a statutory body in that country and that each intermediary meets professional requirements in relation to their competence, good repute, professional indemnity cover and financial capacity. The E.U. issued a new Insurance Distribution Directive that expands the 2005 directive, and all E.U. member states in which we operate were required to enact the directive and adopt local country laws by October 1, 2018.

In addition, our Willis Re Securities business provides advice on securities or investments in the European Union and Australia through our U.K. wholly-owned subsidiary, Willis Towers Watson Securities Europe Limited, which is authorized and regulated by the FCA.

Willis Towers Watson is also subject to the E.U. General Data Protection Regulation ('GDPR'), which became effective in May 2018. The GDPR is a comprehensive regime that significantly increases our responsibilities when handling personal data, including, without limitation, requiring us to conduct privacy impact assessments, restricting the transmission of data and requiring public disclosure of significant data breaches.

Other

Certain of our entities that undertake pension scheme management are subject to MiFID (Markets in Financial Instruments Directive) and MiFIR (the Markets in Financial Instruments Regulation). In addition, revisions to MiFID ('MiFID II') took effect in January 2018. These revisions are aimed at strengthening investor protection and improving the function of financial markets. MiFID II imposes a variety of new requirements that include, among others, rules relating to product governance and independent investment advice, responsibility of management bodies, inducements, information and reporting to clients, cross-selling, remuneration of staff, and best execution of trades for clients. Further, some of our entities are also authorized and regulated by certain financial services authorities in countries such as Sweden, Ireland, the Netherlands and the U.K.

All companies carrying on similar activities in a given jurisdiction are subject to regulations which are not dissimilar to the requirements for our operations in the U.S. and U.K. We do not consider these regulatory requirements as adversely affecting our competitive position.

Across most jurisdictions we are subject to various data privacy laws and regulations that apply to health, medical, financial and other types of personal information belonging to our clients, their employees and third parties, as well as our own employees.

Across many jurisdictions we are subject to various financial crime laws and regulations through our activities, activities of associated persons, the products and services we provide and our business and client relationships. Such laws and regulations relate to, among other areas, sanctions and export control, anti-bribery, anti-corruption, anti-money-laundering and counter-terrorist financing.

Our failure, or that of our employees, to satisfy the regulatory compliance requirements or the legal requirements governing our activities, can result in disciplinary action, fines, reputational damage and financial harm.

See 'Principal Risks and Uncertainties' below for an analysis of how actions by regulatory authorities or changes in legislation and regulation, including Brexit, in the jurisdictions in which we operate may have an adverse effect on our business.

Corporate Governance

Willis Towers Watson is subject to SEC reporting requirements, the mandates of the Sarbanes-Oxley Act and applicable corporate governance rules of the Nasdaq Global Select Market. Willis Towers Watson continues to report its consolidated financial results in U.S. dollars and in accordance with U.S. GAAP, complying also with any additional reporting requirements of Irish Law.

Evaluation of Disclosure Controls and Procedures

An evaluation was performed under the supervision and with the participation of the chief executive officer ('CEO') and chief financial officer ('CFO'), of the effectiveness of the design and operation of our disclosure controls and procedures as of the end of the period covered by this report. Based upon that evaluation, our management, including the CEO and CFO, concluded that our disclosure controls and procedures were effective as of December 31, 2019 in providing reasonable assurance that the information required to be disclosed in our periodic reports we file or submit under the Exchange Act is (1) recorded, processed, summarized and reported within the time periods specified in SEC rules and forms, and (2) accumulated and communicated to our management to allow for timely decisions regarding required disclosure.

Management's Report on Internal Control over Financial Reporting

Internal control over financial reporting refers to the process designed by, or under the supervision of, our CEO and CFO, and overseen by our board of directors, management and other personnel, 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, and 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.

Internal control over financial reporting cannot provide absolute assurance of achieving financial reporting objectives because of its inherent limitations. Internal control over financial reporting is a process that involves human diligence and compliance and is subject to lapses in judgment and breakdowns resulting from human failures. Internal control over financial reporting can also be circumvented by collusion or improper management override. Because of such limitations, there is a risk that material misstatements may not be prevented or detected on a timely basis by internal control over financial reporting. However, these inherent limitations are known features of the financial reporting process. Therefore, it is possible to design into the process safeguards to reduce, though not eliminate, this risk.

Management is responsible for establishing and maintaining adequate internal control over financial reporting for the Company. Management has used the criteria set forth by the Committee of Sponsoring Organizations of the Treadway Commission ('COSO') in the report entitled *Internal Control — Integrated Framework (2013)* to evaluate the effectiveness of the Company's internal control over financial reporting. Based on this evaluation, management has concluded that the Company maintained effective internal control over financial reporting as of December 31, 2019.

Our assessment of, and conclusion on, the effectiveness of internal control over financial reporting did not include the internal control over financial reporting at TRANZACT. SEC guidance permits management to omit an assessment of an acquired business' internal control over financial reporting from its assessment of internal control over financial reporting for a period not to exceed one year from the date of acquisition. We are in the process of integrating TRANZACT operations within our internal control structure. Accordingly, management has excluded controls relating to TRANZACT in this quarter's evaluation of disclosure controls and procedures.

TRANZACT was acquired on July 30, 2019 and is included in our 2019 consolidated financial statements and represented approximately 5% of our total assets as of December 31, 2019, and 3% of our total revenue for the year ended December 31, 2019.

Review of Developments and Business Performance

General

This discussion includes forward-looking statements. See 'Disclaimer Regarding Forward-Looking Statements' for certain cautionary information regarding forward-looking statements and 'Principal Risks and Uncertainties' below for a list of factors that could cause actual results to differ materially from those predicted in those statements.

This discussion includes references to non-GAAP financial measures as defined in the rules of the Securities and Exchange Commission ('SEC'). We present such non-GAAP financial measures, specifically, adjusted, constant currency and organic non-GAAP financial measures, as we believe such information is of interest to the investment community because it provides additional meaningful methods of evaluating certain aspects of the Company's operating performance from period to period on a basis that may not be otherwise apparent under U.S. GAAP, and these provide a measure against which our businesses may be assessed in the future.

Our methods of calculating these measures may differ from those used by other companies and therefore comparability may be limited. These financial measures should be viewed in addition to, not in lieu of, the consolidated financial statements for the year ended December 31, 2019.

See 'Non-GAAP Financial Measures' below for further discussion of our adjusted, constant currency and organic non-GAAP financial measures.

Executive Overview

Business Overview

Willis Towers Watson is a global advisory, broking and solutions company that helps clients around the world turn risk into a path for growth. With roots dating to 1828, Willis Towers Watson has more than 45,000 employees and services clients in more than 140 countries. We design and deliver solutions that manage risk, optimize benefits, cultivate talent, and expand the power of capital to protect and strengthen institutions and individuals. We believe our unique perspective allows us to see the critical intersections between talent, assets and ideas - the dynamic formula that drives business performance.

We offer clients a broad range of services to help them to identify and control their risks, and to enhance business performance by improving their ability to attract, retain and engage a talented workforce. Our risk control services range from strategic risk consulting (including providing actuarial analysis), to a variety of due diligence services, to the provision of practical on-site risk control services (such as health and safety or property loss control consulting), as well as analytical and advisory services (such as hazard modeling and reinsurance optimization studies). We assist clients in planning how to manage incidents or crises when they occur. These services include contingency planning, security audits and product tampering plans. We help our clients enhance their business performance by delivering consulting services, technology and solutions that help organizations anticipate, identify and capitalize on emerging opportunities in human capital management as well as investment advice to help our clients develop disciplined and efficient strategies to meet their investment goals.

As an insurance broker, we act as an intermediary between our clients and insurance carriers by advising our clients on their risk management requirements, helping them to determine the best means of managing risk and negotiating and placing insurance with insurance carriers through our global distribution network. We operate a private Medicare exchange in the U.S. Through this exchange and those for active employees, we help our clients move to a more sustainable economic model by capping and controlling the costs associated with healthcare benefits.

We are not an insurance company, and therefore we do not underwrite insurable risks for our own account.

We derive the majority of our revenue from either commissions or fees for broking or consulting services. No single client represented a significant concentration of our consolidated revenue for any of the periods presented.

Our shares are traded on the NASDAQ Global Select Market.

Market Conditions

Due to the cyclical nature of the insurance market and the impact of other market conditions on insurance premiums, commission revenue may vary widely between accounting periods. A period of low or declining premium rates, generally known as a 'soft' or 'softening' market, generally leads to downward pressure on commission revenue and can have a material adverse impact on our revenue and operating margin. A 'hard' or 'firming' market, during which premium rates rise, generally has a favorable impact on our revenue and operating margin. Rates, however, vary by geography, industry and client segment. As a result, and due to the global and diverse nature of our business, we view rates in the aggregate. Overall, we are currently seeing a modest but definite improvement with pricing in the market.

Market conditions in the broking industry in which we operate are generally defined by factors such as the strength of the economies in the various geographic regions in which we serve around the world, insurance rate movements, and insurance and reinsurance buying patterns of our clients.

The terms of Brexit and its impact remain uncertain, and the Company is currently in the process of establishing appropriate arrangements for the continued servicing of client business in the countries expected to be most affected. For a further discussion of the risks of Brexit to the Company, see 'Principal Risks and Uncertainties' below.

Typically, our business benefits from regulatory change, political risk or economic uncertainty. Insurance broking generally tracks the economy, but demand for both insurance broking and consulting services usually remains steady during times of uncertainty. We have some businesses, such as our health and benefits and administration businesses, which can be counter cyclical during the early period of a significant economic change.

Although approximately 21% of our revenue is generated in the U.K. on an annual basis, only about 12% of revenue is denominated in Pounds sterling as much of the insurance business is transacted in U.S. dollars. Approximately 20% of our expenses is denominated in Pounds sterling, thus we generally benefit from a weakening Pound sterling in our income from operations. However, we have a Company hedging strategy for this aspect of our business, which is designed to mitigate significant fluctuations in currency.

The markets for our consulting, technology and solutions, and marketplace services are affected by economic, regulatory and legislative changes, technological developments, and increased competition from established and new competitors. We believe that the primary factors in selecting a human resources or risk management consulting firm include reputation, the ability to provide measurable increases to shareholder value and return on investment, global scale, quality of service and the ability to tailor services to clients' unique needs. In that regard, we are focused on developing and implementing technology, data and analytic solutions for both internal operations and for maintaining industry standards and meeting client preferences. We have made such investments from time to time and may decide, based on perceived business needs, to make investments in the future that may be greater than we currently anticipate.

With regard to the market for exchanges, we believe that clients base their decisions on a variety of factors that include the ability of the provider to deliver measurable cost savings for clients, a strong reputation for efficient execution and an innovative service delivery model and platform. Part of the employer-sponsored insurance market has matured and become more fragmented while other segments remain in the entry phase. As these market segments continue to evolve, we may experience growth in intervals, with periods of accelerated expansion balanced by periods of modest growth. In recent years, growth in the market for exchanges has slowed, and we expect this trend may continue during 2020.

See 'Principal Risks and Uncertainties' below for discussions of risks that may affect our ability to compete.

Business Strategy

Willis Towers Watson is in the business of people, risk and capital. We believe that a unified approach to these areas can be a path to growth for our clients. Our integrated teams bring together our understanding of risk strategies and market analytics. This helps clients around the world to achieve their objectives.

We operate in attractive markets – both growing and mature – with a diversified platform across geographies, industries, segments and lines of business. We aim to be the premier advisory, broking and solutions company, creating a competitive advantage and delivering sustainable growth.

We believe we can achieve this by:

- Driving profitable organic growth in our current core businesses and geographies – each has a role to play in Willis Towers Watson's success;
- Delivering a winning client experience – we are committed to always bringing the best of Willis Towers Watson to our clients – with a consistent standard across all of our businesses and geographies; and
- Investing both organically and inorganically – with a focus on the most attractive markets for growth or where we can achieve a sustainable competitive advantage, including adjacencies, innovation and inorganic opportunities.

We care as much about how we work as we do about the impact that we make. This means commitment to shared values, a framework that guides how we run our business and serve clients.

Through these strategies we aim to accelerate revenue, cash flow, earnings before interest, taxes, depreciation and amortization ('EBITDA'), and earnings growth, and generate compelling returns for investors, by delivering tangible growth in revenue.

In relation to potential future developments, see 'Subsequent Events' below for details of a recommended acquisition of Willis Towers Watson.

Financial Statement Overview

The tables below set forth our summarized consolidated profit and loss account income and data as a percentage of revenue for the periods indicated. For management's discussion of our results of operations for the year ended December 31, 2018 in comparison with the year ended December 31, 2017, please see our Directors' Report for the year ended December 31, 2018.

Consolidated Profit and Loss Account (\$ in millions, except per share data)

	Years ended December 31,					
	2019		2018			
Revenue	\$	9,039	100%	\$	8,513	100%
Costs of providing services						
Salaries and benefits		5,249	58%		5,123	60%
Other operating expenses		1,719	19%		1,637	19%
Depreciation		240	3%		208	2%
Amortization		489	5%		534	6%
Transaction and integration expenses		13	—%		202	2%
Total costs of providing services		7,710			7,704	
Income from operations		1,329	15%		809	10%
Interest expense		(234)	(3)%		(208)	(2)%
Other income, net		227	3%		250	3%
Provision for income taxes		(249)	(3)%		(136)	(2)%
Income attributable to non-controlling interests		(29)	—%		(20)	—%
NET INCOME ATTRIBUTABLE TO WILLIS TOWERS WATSON	\$	1,044	12%	\$	695	8%
Diluted earnings per share	\$	8.02		\$	5.27	

(i) Certain captions used in this table may differ from captions used in the Consolidated Financial Statements; such captions are used because they are familiar to users of the accounts filed by the Company in the United States.

Consolidated Revenue

We derive the majority of our revenue from commissions from our brokerage services and fees for consulting and administration services. No single client represented a significant concentration of our consolidated revenue for any of our three most recent financial years.

The following table details our top five markets based on percentage of consolidated revenue (in U.S. dollars) from the countries where work was performed for the year ended December 31, 2019. These figures do not represent the currency of the related revenue, which is presented in the next table.

Geographic Region	% of Revenue
United States	48%
United Kingdom	21%
France	4%
Germany	3%
Canada	3%

The table below details the percentage of our revenue and expenses by transactional currency for the year ended December 31, 2019.

Transactional Currency	Revenue	Expenses ⁽ⁱ⁾
U.S. dollars	57%	50%
Pounds sterling	12%	20%
Euro	15%	13%
Other currencies	16%	17%

(i) These percentages exclude certain expenses for significant items which will not be settled in cash, or which we believe to be items that are not core to our current or future operations. These items include amortization of intangible assets and transaction and integration expenses.

The following table sets forth the total revenue for the years ended December 31, 2019 and 2018 and the components of the change in total revenue for the year ended December 31, 2019, as compared to the prior year:

	Years Ended December 31,		As Reported Change	Components of Revenue Change ⁽ⁱ⁾			
	2019	2018		Currency Impact	Constant Currency Change	Acquisitions/ Divestitures	Organic Change
	(\$ in millions)						
Revenue	\$ 9,039	\$ 8,513	6%	(2)%	9%	3%	5%

(i) Components of revenue change may not add due to rounding.

Revenue for the year ended December 31, 2019 was \$9.0 billion, compared to \$8.5 billion for the year ended December 31, 2018, an increase of \$526 million, or 6% on an as reported basis. Adjusting for the impact of foreign currency and acquisitions and disposals, our organic revenue growth was 5% for the year ended December 31, 2019. The increase in organic revenue was driven by strong performances in all segments. The revenue from acquisitions related primarily to TRANZACT, which generated revenue of \$245 million.

Our revenue can be materially impacted by changes in currency conversions, which can fluctuate significantly over the course of a calendar year. For the year ended December 31, 2019, currency translation decreased our consolidated revenue by \$192 million. The primary currencies driving this change were the Euro and Pound sterling.

Definitions of Constant Currency Change and Organic Change are included in the section entitled 'Non-GAAP Financial Measures' below.

Segment Revenue

We manage our business across four reportable operating segments: Human Capital and Benefits; Corporate Risk and Broking; Investment, Risk and Reinsurance; and Benefits Delivery and Administration.

Segment revenue excludes amounts that were directly incurred on behalf of our clients and reimbursed by them (reimbursed expenses); however, these amounts are included in consolidated revenue.

The Company experiences seasonal fluctuations in its revenue. Revenue is typically higher during the Company's first and fourth quarters due primarily to the timing of broking-related activities.

Human Capital and Benefits ('HCB')

The HCB segment provides an array of advice, broking, solutions and software for our clients.

HCB is the largest segment of the Company, generating approximately 37% of our segment revenue for the year ended December 31, 2019. HCB is focused on addressing our clients' people and risk needs to help them take on the challenges of operating in a global marketplace. This segment is further strengthened with teams of international consultants who provide support through each of our business units to the global headquarters of multinational clients and their foreign subsidiaries.

The HCB segment provides services through four business units:

- *Retirement* — The Retirement business provides actuarial support, plan design, and administrative services for traditional pension and retirement savings plans. We help our clients assess the costs and risks of retirement plans on cash flow, earnings and the balance sheet, the effects of changing workforce demographics on their retirement plans and retiree benefit adequacy and security.
- *Health and Benefits* — The Health & Benefits business provides plan management consulting, broking and administration across the full spectrum of health and group benefit programs, including medical, dental, disability, life and other coverage.
- *Talent & Rewards* — Our Talent & Rewards business provides advice, data, software and products to address clients' total rewards and talent issues.
- *Technology and Administration Solutions* — Our Technology and Administration Solutions business provides benefits outsourcing services to clients outside of the U.S.

The following table sets forth HCB segment revenue for the years ended December 31, 2019 and 2018, and the components of the change in revenue for the year ended December 31, 2019 from the year ended December 31, 2018.

	Years Ended December 31,		As Reported Change	Components of Revenue Change ⁽ⁱ⁾			
	2019	2018		Currency Impact	Constant Currency Change	Acquisitions/ Divestitures	Organic Change
	(\$ in millions)						
Segment revenue	\$ 3,298	\$ 3,233	2%	(2)%	4%	—%	4%

(i) Components of revenue change may not add due to rounding.

HCB segment revenue for the years ended December 31, 2019 and 2018 was \$3.3 billion and \$3.2 billion, respectively. On an organic basis, and after factoring in the first-year adoption impact of ASC 606 in the prior year, Health and Benefits delivered revenue growth, driven by increased consulting and brokerage services, growth in specialty products in North America, and expansion of our client portfolio outside North America for both local and global appointments. Talent and Rewards generated solid revenue growth, resulting from increased demand in Data Services and advisory work across all geographies. Technology and Administration Solutions revenue also increased in connection with client wins and greater project demand in Great Britain and Western Europe. Retirement revenue was flat compared to the prior year as increased de-risking work was balanced by a decline in project work along with the negative impact of being an ‘off-year’ in the triennial valuation cycles in both Canada and Great Britain.

For a further discussion of the impact of the adoption of ASC 606 on our results for the year ended December 31, 2018, see our Directors’ Report for the year ended December 31, 2018.

Corporate Risk and Broking (‘CRB’)

The CRB segment provides a broad range of risk advice, insurance broking and consulting services to clients worldwide ranging from small businesses to multinational corporations. This segment delivers integrated global solutions tailored to client needs and underpinned by data and analytics.

CRB generated approximately 33% of our segment revenue for the year ended December 31, 2019, and places more than \$20 billion of premiums into the insurance markets annually.

CRB has three global offerings:

- *Property and Casualty* — Property and Casualty provides property and liability insurance brokerage services across a wide range of industries including construction, real estate, healthcare and natural resources.
- *Financial Lines* — Financial Lines specializes in brokerage services for financial, political and credit risks.
- *Transport* — Transport provides specialist expertise to the transportation, aerospace, marine and inspace industries.

The following table sets forth CRB segment revenue for the years ended December 31, 2019 and 2018, and the components of the change in revenue for the year ended December 31, 2019 from the year ended December 31, 2018.

	Years Ended December 31,		As Reported Change	Components of Revenue Change ⁽ⁱ⁾			
	2019	2018		Currency Impact	Constant Currency Change	Acquisitions/ Divestitures	Organic Change
	(\$ in millions)						
Segment revenue	\$ 2,946	\$ 2,852	3%	(3)%	6%	—%	6%

(i) Components of revenue change may not add due to rounding.

CRB segment revenue for the years ended December 31, 2019 and 2018 was approximately \$2.9 billion. The segment had solid growth across all geographies. On an organic basis, North America continued to lead the segment with new business generation. International, Western Europe and Great Britain drove further growth for the segment, primarily with strong management of the renewal book portfolio alongside new business wins.

Investment, Risk and Reinsurance ('IRR')

The IRR segment uses a sophisticated approach to risk, which helps clients free up capital and manage investment complexity. This segment works closely with investors, reinsurers and insurers to manage the equation between risk and return. Blending advanced analytics with deep institutional knowledge, IRR identifies new opportunities to maximize performance. This segment provides investment consulting and discretionary management services and insurance specific services and solutions through reserves opinions, software, ratemaking, risk underwriting and reinsurance broking.

This segment is our third largest segment and generated approximately 18% of segment revenue for the Company for the year ended December 31, 2019. With approximately 77% of the revenue for this segment split between North America and the U.K., IRR includes the following businesses and offerings:

- *Willis Re* — Willis Re provides reinsurance industry clients with an understanding of how risk affects capital and financial performance and advises on the best ways to manage related outcomes.
- *Insurance Consulting and Technology* — Insurance Consulting and Technology is a global business that provides advice and technology solutions to the insurance industry. Services include software and technology, risk and capital management, products and product pricing, financial and regulatory reporting, financial and capital modeling, M&A, outsourcing and business management.
- *Investments* — Investments provides advice and discretionary management solutions to improve investment outcomes for asset owners using a broad and sophisticated framework for managing risk.
- *Wholesale Insurance Broking* — Wholesale Insurance Broking provides specialist broking services primarily to retail and wholesale brokers.
- *Innovisk* — Innovisk (formerly Underwriting and Capital Management) brings together our set of managing general agent underwriting activities for the purposes of accelerating their future development using data and technology.
- *Willis Re Securities* — Willis Re Securities (formerly Willis Towers Watson Securities) provides capital markets services to companies involved in the insurance and reinsurance industries.
- *Max Matthiessen* — Max Matthiessen is a leading advisor and broker for insurance, benefits, human resources and savings in the Nordic region. The business specializes in providing human capital and benefits administration together with providing market leading savings and insurance solutions.

The following table sets forth IRR segment revenue for the years ended December 31, 2019 and 2018, and the components of the change in revenue for the year ended December 31, 2019 from the year ended December 31, 2018.

	Years Ended December 31,		As Reported Change	Components of Revenue Change ⁽ⁱ⁾			
	2019	2018		Currency Impact	Constant Currency Change	Acquisitions/ Divestitures	Organic Change
	(\$ in millions)						
Segment revenue	\$ 1,637	\$ 1,556	5%	(3)%	8%	1%	7%

(i) Components of revenue change may not add due to rounding.

IRR segment revenue for the years ended December 31, 2019 and 2018 was approximately \$1.6 billion. On an organic basis, all lines of business posted revenue growth. Reinsurance, Innovisk, Wholesale and Investments growth was driven by net new business growth and favorable renewal factors while Insurance Consulting and Technology revenue grew from strong technology sales. Max Matthiessen revenue increased as a result of overall growth in net commissions.

Benefit Delivery and Administration ('BDA')

The BDA segment provides primary medical and ancillary benefit exchange and outsourcing services to active employees and retirees across both the group and individual markets. A significant portion of the revenue in this segment is recurring in nature, driven by either the commissions from the policies we sell, or from long-term service contracts with our clients that typically range from three to five years. Revenue across this segment may be seasonal, driven by the magnitude and timing of client enrollment activities, which often occur during the fourth quarter, with increased membership levels typically effective January 1, after calendar year-end benefits elections. BDA includes the operations of TRANZACT, which experiences seasonally higher revenue during the fourth quarter due primarily to the timing of the Federal Medicare Open Enrollment window. Following the acquisition on July 30, 2019, TRANZACT generated revenue of \$245 million, which is included in the BDA segment revenue from its date of acquisition through the year ended December 31, 2019.

BDA generated approximately 12% of our segment revenue for the year ended December 31, 2019. BDA provides services via three related offerings to customers primarily in the U.S.:

- *Benefits Outsourcing* — This service line is focused on serving active employee groups for clients across the U.S. We use our proprietary technology to provide a broad suite of health and welfare and pension administration outsourcing services, including tools to enable benefit modeling, decision support, enrollment and benefit choice.
- *Individual Marketplace* — This service line offers decision support processes and tools to connect consumers with insurance carriers in private individual and Medicare markets. Individual Marketplace serves both employer-based and direct-to-consumer populations through its end-to-end consumer acquisition and engagement platforms, which tightly integrate call routing technology, an efficient quoting and enrollment engine, a customer relations management system and deep links with insurance carriers.
- *Benefits Accounts* — This service line delivers consumer-driven healthcare and reimbursement accounts, including health savings accounts, health reimbursement arrangements and other consumer-directed accounts to our benefits outsourcing, individual marketplace and employer clients.

The following table sets forth BDA segment revenue for the years ended December 31, 2019 and 2018, and the components of the change in revenue for the year ended December 31, 2019 from the year ended December 31, 2018.

	Years Ended December 31,		As Reported Change	Components of Revenue Change ⁽ⁱ⁾			
	2019	2018		Currency Impact	Constant Currency Change	Acquisitions/Divestitures	Organic Change
	(\$ in millions)						
Segment revenue	\$ 1,035	\$ 758	37%	—%	37%	32%	4%

(i) Components of revenue change may not add due to rounding.

BDA segment revenue for the years ended December 31, 2019 and 2018 was \$1.0 billion and \$758 million, respectively. BDA's organic growth was primarily led by the continued expansion of its client base and increased demand for project work in the mid-market and large-market spaces.

Costs of Providing Services

Total costs of providing services was approximately \$7.7 billion for both the years ended December 31, 2019 and 2018, representing a current year increase of \$6 million. See the following discussion for further details.

Salaries and Benefits

Salaries and benefits for the year ended December 31, 2019 were \$5.2 billion, compared to \$5.1 billion for the year ended December 31, 2018, an increase of \$126 million. This increase was primarily a result of higher base salary adjustments, severance costs and incentive accruals.

Salaries and benefits, as a percentage of revenue, represented 58% and 60% for the years ended December 31, 2019 and 2018, respectively.

Other Operating Expenses

Other operating expenses include occupancy, legal, marketing, licenses, royalties, supplies, technology, printing and telephone costs, as well as insurance, including premiums on excess insurance and losses on professional liability claims, travel by colleagues, publications, professional subscriptions and development, recruitment, other professional fees and irrecoverable value added and sales taxes.

Other operating expenses for the year ended December 31, 2019 were \$1.7 billion, compared to \$1.6 billion for the year ended December 31, 2018, an increase of \$82 million, or 5%. This increase was primarily due to the addition of TRANZACT expenses and higher professional services expenses, partially offset by lower insurance and occupancy costs.

Depreciation

Depreciation represents the expense incurred over the useful lives of our tangible fixed assets and internally-developed software. Depreciation for the year ended December 31, 2019 was \$240 million, compared to \$208 million for the year ended December 31, 2018, an increase of \$32 million, or 15%. The year-over-year increase was primarily due to a higher depreciable base of assets resulting from additional assets placed in service during 2018.

Amortization

Amortization includes amortization of acquired intangible assets, including acquired internally developed software. Amortization for the year ended December 31, 2019 was \$489 million, compared to \$534 million for the year ended December 31, 2018, a decrease of \$45 million, or 8%. Our intangible amortization is more heavily weighted to the initial years of the useful lives of the related intangibles, and therefore amortization related to intangible assets purchased prior to our acquisition of TRANZACT will continue to decrease over time. Our amortization will increase going forward as a result of the TRANZACT acquisition.

Transaction and integration expenses

Transaction and integration expenses for the year ended December 31, 2019 was composed of \$13 million of transaction costs, primarily related to the acquisition of TRANZACT, compared to \$202 million of integration costs for the year ended December 31, 2018. There were no integration costs incurred during 2019 due to the completion of all integration activities in 2018.

Income from Operations

Income from operations for the year ended December 31, 2019 was \$1.3 billion, compared to \$809 million for the year ended December 31, 2018, an increase of \$520 million. This increase resulted from higher revenue of \$526 million, which includes \$245 million of TRANZACT revenue, partially offset by higher operating expenses of \$6 million, primarily driven by higher salary and benefits costs and the addition of TRANZACT operating expenses during the current year. The increase in the current year's operating expenses was partially offset by the absence of integration expenses of \$202 million incurred in the prior year.

Interest Expense

Interest expense for the years ended December 31, 2019 and 2018 was \$234 million and \$208 million, respectively. Interest expense is primarily related to interest on our senior notes and term loan. Interest expense increased by \$26 million for the year ended December 31, 2019, which was due primarily to additional levels of indebtedness in connection with the TRANZACT acquisition and higher interest expense associated with our senior notes offerings during the third quarter of 2019.

Other Income, Net

Other income, net for the year ended December 31, 2019 was \$227 million, compared to \$250 million for the year ended December 31, 2018, a decrease of \$23 million. The decrease in 2019 as compared to the prior year primarily related to decreased pension income of \$46 million for the full year 2019, in comparison with the prior year, partially offset by favorable investment income activity of \$16 million for the current year and a lower loss on disposal activity of \$7 million.

Provision for Income Taxes

Provision for income taxes for the year ended December 31, 2019 was \$249 million, compared with \$136 million for the year ended December 31, 2018. The effective tax rates for the years ended December 31, 2019 and 2018 were 18.8% and 16.0%, respectively. The tax rate for the year ended December 31, 2018 was lower primarily due to the release of a valuation allowance on certain state deferred tax assets in connection with a U.S. internal restructuring and the global mix of income. These effective tax rates are calculated using extended values from our consolidated profit and loss account and are therefore more precise tax rates than can be calculated from rounded values.

Net income attributable to Willis Towers Watson

Net income attributable to Willis Towers Watson for the year ended December 31, 2019 was \$1.0 billion, compared to \$695 million for the year ended December 31, 2018, an increase of \$349 million, or 50%. This increase was primarily due to organic revenue growth across all segments and the addition of TRANZACT's operating results, partially offset by increased salary and benefits costs and higher tax expense.

Liquidity and Capital Resources

Executive Summary

Our principal sources of liquidity are funds generated by operating activities, available cash and cash equivalents and amounts available under our revolving credit facilities or new debt offerings.

Based on our current balance sheet and cash flows, current market conditions and information available to us at this time, we believe that Willis Towers Watson has access to sufficient liquidity, which includes our undrawn revolving credit facilities, to meet our cash needs for the next twelve months, including investing in the business for growth, scheduled debt repayments and dividend payments. Additionally, we used term loan financing to complete our acquisition of TRANZACT (see Note 11 to the Consolidated Financial Statements for further information regarding the term loan).

The Company recognizes deferred tax balances related to the undistributed earnings of subsidiaries when it expects that it will recover those undistributed earnings in a taxable manner, such as through receipt of dividends or sale of the investments.

At December 31, 2018, as a result of an international restructuring, we were considering repatriating an additional \$2.1 billion, which was previously deemed indefinitely reinvested. As a result, we recorded an estimate for foreign withholding and state income tax expense of approximately \$11 million at December 31, 2018. During the second quarter of 2019 we repatriated a portion of this as previously-taxed income and return of capital. Subsequent to the repatriation, U.S. Treasury Regulations were issued that would impact the U.S. taxability of the balance of the earnings associated with the international restructuring. As such, the Company changed its assertion with respect to any additional earnings from this restructuring for the foreseeable future and released approximately \$8 million previously accrued for foreign withholding and state income tax expense. Of the original \$2.1 billion under consideration, \$1.4 billion remains permanently reinvested at December 31, 2019.

We continue to have certain subsidiaries whose earnings have not been deemed permanently reinvested, for which we have been accruing estimates of the tax effects of such repatriation. Excluding these certain subsidiaries, we continue to assert that the historical cumulative earnings for the remainder of our subsidiaries have been reinvested indefinitely, and therefore do not provide deferred taxes on these amounts. If future events, including material changes in estimates of cash, working capital, long-term investment requirements or additional guidance relating to U.S. Tax Reform, necessitate that these earnings be distributed, an additional provision for income and foreign withholding taxes, net of credits, may be necessary. Other potential sources of cash may be through the settlement of intercompany loans or return of capital distributions in a tax-efficient manner.

Events that could change the historical cash flow dynamics discussed above include significant changes in operating results, potential future acquisitions or divestitures, material changes in geographic sources of cash, unexpected adverse impacts from litigation or regulatory matters, or future pension funding during periods of severe downturn in the capital markets.

During the year ended December 31, 2019, we completed an offering of \$450 million aggregate principal amount of 2.950% senior notes due 2029 and \$550 million aggregate principal amount of 3.875% senior notes due 2049. Net proceeds of approximately \$988 million were used to prepay a portion of the amount outstanding under our one-year term loan commitment and to repay borrowings under our \$1.25 billion revolving credit facility.

Assets and liabilities associated with non-U.S. entities have been translated into U.S. dollars as of December 31, 2019 at U.S. dollar rates that fluctuate compared to historical periods. As a result, cash flows derived from changes in the consolidated balance sheet include the impact of the change in foreign exchange translation rates.

Cash and Cash Equivalents

Our cash and cash equivalents at both December 31, 2019 and 2018 totaled \$887 million and \$1.0 billion, respectively.

Additionally, at December 31, 2019, \$1.2 billion was available to draw against our \$1.25 billion revolving credit facility as compared to \$1.1 billion, which was available to draw against the facility at December 31, 2018.

Included within cash and cash equivalents at December 31, 2019 and 2018 are amounts held for regulatory capital adequacy requirements, including \$114 million and \$90 million, respectively, held within our regulated U.K. entities at December 31, 2019 and 2018, respectively.

Summarized Consolidated Cash Flows

The following table presents the summarized consolidated cash flow information for the years ended:

	Years ended December 31,	
	2019	2018
	(in millions)	
Net cash from/(used in):		
Operating activities	\$ 1,081	\$ 1,288
Investing activities	(1,614)	(341)
Financing activities	397	(903)
(DECREASE)/INCREASE IN CASH, CASH EQUIVALENTS AND RESTRICTED CASH	(136)	44
Effect of exchange rate changes on cash, cash equivalents and restricted cash	(2)	(41)
CASH AND CASH EQUIVALENTS, BEGINNING OF YEAR ⁽ⁱ⁾	1,033	1,030
CASH, CASH EQUIVALENTS AND RESTRICTED CASH, END OF YEAR ⁽ⁱ⁾	\$ 895	\$ 1,033

(i) As a result of the acquired TRANZACT collateralized facility (see Note 11 to the Consolidated Financial Statements), cash, cash equivalents and restricted cash at the end of the period included \$8 million of restricted cash at December 31, 2019, which is included within prepaid and other current assets on our consolidated balance sheet. There were no restricted cash amounts held at December 31, 2018 and 2017.

Cash Flows From Operating Activities

Cash flows from operating activities were \$1.1 billion for 2019, compared to cash flows from operating activities of \$1.3 billion for 2018. The \$1.1 billion net cash from operating activities for 2019 included net income of \$1.1 billion, adjusted for \$798 million of non-cash adjustments, mostly offset by unfavorable changes in operating assets and liabilities of \$790 million. The \$798 million of non-cash adjustments primarily includes depreciation, amortization and non-cash lease expense. The \$207 million decrease in cash from operations in 2019 compared to 2018 primarily resulted from unfavorable working capital changes, particularly in accounts receivable, and the negative cash flows of TRANZACT.

The \$1.3 billion net cash from operating activities for 2018 included net income of \$715 million, adjusted for \$570 million of non-cash adjustments, and changes in operating assets and liabilities of \$3 million. The \$570 million non-cash adjustments primarily included depreciation, amortization, and the benefit from deferred income taxes.

Cash Flows Used In Investing Activities

Cash flows used in investing activities for 2019 and 2018 were \$1.6 billion and \$341 million, respectively, with 2019 being primarily driven by the acquisition of TRANZACT during the third quarter of 2019, as well as capital expenditures and capitalized software additions in both years.

Cash Flows From/(Used In) Financing Activities

Cash flows from financing activities for 2019 were \$397 million. The most significant financing activities included net debt-related proceeds of \$958 million, which were partially offset by dividend payments of \$329 million and share repurchases of \$150 million.

Cash flows used in financing activities for 2018 were \$903 million. The most significant financing activities included share repurchases of \$602 million and dividend payments of \$306 million, which were partially offset by net borrowings of \$66 million.

Indebtedness

Total debt, total equity, and the capitalization ratio at December 31, 2019 and December 31, 2018 were as follows:

	December 31,	
	2019	2018
	(in millions)	
Long-term debt	\$ 5,301	\$ 4,389
Current debt	316	186
Total debt	\$ 5,617	\$ 4,575
Total Willis Towers Watson shareholders' equity	\$ 10,249	\$ 9,852
Capitalization ratio	35.4%	31.7%

At December 31, 2019, our mandatory debt repayments over the next twelve months include \$295 million outstanding on our one-year unsecured term loan, and \$24 million outstanding on our collateralized facility assumed as part of our acquisition of TRANZACT.

At December 31, 2019 and 2018, we were in compliance with all financial covenants.

Fiduciary Funds

As an intermediary, we hold funds, generally in a fiduciary capacity, for the account of third parties, typically as the result of premiums received from clients that are in transit to insurers and claims due to clients that are in transit from insurers. We report premiums, which are held on account of, or due from, clients as assets with a corresponding liability due to the insurers. Claims held by, or due to, us which are due to clients are also shown as both Fiduciary assets and Fiduciary liabilities on our balance sheet.

Fiduciary funds are generally required to be kept in regulated bank accounts subject to guidelines which emphasize capital preservation and liquidity; such funds are not available to service the Company's debt or for other corporate purposes. Notwithstanding the legal relationships with clients and insurers, the Company is entitled to retain investment income earned on fiduciary funds in accordance with industry custom and practice and, in some cases, as supported by agreements with insureds.

At December 31, 2019 and 2018, we had fiduciary funds of \$3.4 billion and \$3.3 billion, respectively.

Share Repurchase Program

The Company is authorized to repurchase shares, by way of redemption, and will consider whether to do so from time to time, based on many factors, including market conditions. There are no expiration dates for our repurchase plans or programs.

On February 23, 2018, the board of directors approved an increase to the existing share repurchase program of \$400 million to a total authorization of \$1.0 billion.

At December 31, 2019, approximately \$249 million remained on the current repurchase authority. The maximum number of shares that could be repurchased based on the closing price of our ordinary shares on December 31, 2019 of \$201.94 was 1,233,271.

The following table presents specified information about the Company's repurchases of ordinary shares for the year ended December 31, 2019:

	Year ended December 31, 2019
Shares repurchased	787,744
Average price per share	\$190.42
Aggregate repurchase cost (excluding broker costs)	\$150 million

On February 26, 2020, the board of directors approved a \$251 million increase to the existing share repurchase program, increasing the total remaining authorization to \$500 million.

An analysis of movements on shares held by the Company is as follows:

	Year Ended December 31, 2019					
	Ordinary shares, \$0.000304635 nominal value			Ordinary shares, €1 nominal value		
	Number of shares	Percentage of the called-up share capital	Nominal value (thousands)	Number of shares	Percentage of the share class	Nominal value (thousands)
Balance at January 1, 2019	17,519	Under 0.01%	\$—	40,000	100%	€40
Shares repurchased	787,744		1	—		—
Shares canceled	(787,744)		(1)	—		—
Balance at December 31, 2019	17,519	Under 0.01%	\$—	40,000	100%	€40

Capital Commitments

The Company has no material commitments for capital expenditures. Our capital expenditures for fixed assets and software for internal use were \$246 million for the year ended December 31, 2019. Expected capital expenditures for fixed assets and software for internal use are approximately \$250 million for the year ended December 31, 2020. We expect cash from operations to adequately provide for these cash needs.

Dividends

Total interim cash dividends of \$329 million were paid during the year ended December 31, 2019. In February 2020, the board of directors approved an interim quarterly cash dividend of \$0.68 per share (\$2.72 per share annualized rate), which will be paid on or about April 15, 2020 to shareholders of record as of March 31, 2020.

Consolidated Balance Sheet

Total assets of \$35.4 billion as of December 31, 2019 increased by \$3.0 billion in the year ended December 31, 2019, with a \$0.9 billion combined increase in goodwill and other intangible assets, largely due to the acquisition of TRANZACT, net of overall amortization on other intangible assets, a \$0.4 billion increase in fiduciary assets and, following the adoption of ASU No. 2016-02, *Leases* ('ASU 2016-02') (see Note 2 to these Consolidated Financial Statements), a \$1.0 billion increase in right-of-use assets.

Total liabilities of \$25.1 billion as of December 31, 2019 increased by \$2.7 billion in the year ended December 31, 2019, with a \$1.0 billion increase in debt to fund the acquisition of TRANZACT, a \$0.4 billion increase in fiduciary liabilities and, following the adoption of ASU 2016-02, a \$1.1 billion increase in lease liabilities.

Total equity increased by \$398 million in the year ended December 31, 2019, as the impact of share repurchases, dividends declared and other comprehensive losses was more than offset by net income of \$1,067 million.

Off-Balance Sheet Arrangements and Contractual Obligations

Off-Balance Sheet Transactions

Apart from commitments, guarantees and contingencies, as disclosed herein and Note 16 to the Consolidated Financial Statements and incorporated herein by reference, as of December 31, 2019, the Company had no off-balance sheet arrangements that have, or are reasonably likely to have, a current or future material effect on the Company's financial condition, results of operations or liquidity.

Contractual Obligations

The Company's material contractual obligations as of December 31, 2019 are as follows:

	Payments due by				
	Total	2020	2021-2022 (in millions)	2023-2024	After 2024
Debt and related interest obligations					
Senior notes	\$ 5,281	\$ —	\$ 1,556	\$ 900	\$ 2,825
Revolving \$1.25 billion credit facility	—	—	—	—	—
Term loan due 2020	295	295	—	—	—
Collateralized facility	79	24	39	16	—
Interest on senior notes	2,362	215	351	285	1,511
Total debt and related interest obligations	8,017	534	1,946	1,201	4,336
Operating and finance leases	1,357	198	340	288	531
U.K. pension contractual obligations	310	73	134	90	13
Acquisition liabilities	54	12	32	10	—
Other contractual obligations	40	27	—	—	13
Total contractual obligations	\$ 9,778	\$ 844	\$ 2,452	\$ 1,589	\$ 4,893

Debt Obligations and Facilities — The Company's material debt and related interest obligations at December 31, 2019 are shown in the above table. The Company's mandatory debt repayments over the next twelve months include \$295 million outstanding on its one-year unsecured term loan, and \$24 million outstanding on its collateralized facility assumed as part of the acquisition of TRANZACT. The Company also has the right, at its option, to prepay indebtedness under the credit facility without further penalty and to redeem the senior notes by paying a 'make-whole' premium as provided under the applicable debt instrument.

Leases — We lease office space and furniture, primarily under operating lease agreements, with terms typically ranging from three to ten years. See further discussion in Note 15 to the Consolidated Financial Statements.

Pension Contributions — The Company has agreed with the Trustees of certain plans in the U.K. to contribute deficit funding and minimum ongoing accrual of benefits funding and has presented those obligations in the table above. These obligations exclude employee contributions and any potential funding level contributions, which are dependent on future funding level assessments. There are no contractual obligations for our U.S. pension plans. Our total expected contributions to all qualified pension plans, including amounts presented above, for the year ending December 31, 2020 are projected to be \$167 million. Additionally, the Company expects to pay \$43 million in benefits directly to participants for the year ended 2020.

Acquisition Liabilities and Other Contractual Obligations — Acquisition liabilities include contingent consideration estimates, which may change based on actual results that may differ from management's current expectations. Other contractual obligations include put option obligations and investment fund capital call obligations, the timing of which are included at the earliest point they may fall due. Information regarding these liabilities and their impact on the financial statements is set forth in Note 16 to the Consolidated Financial Statements.

Claims, Lawsuits and Other Proceedings, including Stanford Financial Group Litigation — Information regarding claims, lawsuits and other proceedings, including the Stanford Financial Group litigation, and their impact on the consolidated financial statements is set forth in Note 16 to the Consolidated Financial Statements.

Uncertain Tax Positions — The table above does not include liabilities for uncertain tax positions under ASC 740, *Income Taxes* of \$49 million, which excludes interest and penalties. The settlement period cannot be reasonably estimated since it depends on the timing and possible outcomes of tax examinations with various tax authorities.

Non-GAAP Financial Measures

In order to assist readers of our consolidated financial statements in understanding the core operating results that Willis Towers Watson's management uses to evaluate the business and for financial planning purposes, we present the following non-GAAP measures and their most directly comparable U.S. GAAP measure:

Most Directly Comparable U.S. GAAP Measure	Non-GAAP Measure
As reported change	Constant currency change
As reported change	Organic change
Income from operations/margin	Adjusted operating income/margin
Net income/margin	Adjusted EBITDA/margin
Net income attributable to Willis Towers Watson	Adjusted net income
Diluted earnings per share	Adjusted diluted earnings per share
Income from operations before income taxes	Adjusted income before taxes
Provision for income taxes/U.S. GAAP tax rate	Adjusted income taxes/tax rate
Net cash from operating activities	Free cash flow

The Company believes that these measures are relevant and provide useful information widely used by analysts, investors and other interested parties in our industry to provide a baseline for evaluating and comparing our operating performance, and in the case of free cash flow, our liquidity results.

Within the measures referred to as 'adjusted', we adjust for significant items which will not be settled in cash, or which we believe to be items that are not core to our current or future operations. These items include the following:

- Transaction and integration expenses - Management believes it is appropriate to adjust for transaction and integration expenses when they relate to a specific significant program with a defined set of activities and costs that are not expected to continue beyond a defined period of time, or significant acquisition-related transaction expenses. We believe the adjustment is necessary to present how the Company is performing, both now and in the future when the incurrence of these costs will have concluded.
- Gains and losses on disposals of operations - Adjustment to remove the gain or loss resulting from disposed operations.
- Pension settlement and curtailment gains and losses - Adjustment to remove significant pension settlement and curtailment gains and losses to better present how the Company is performing.
- Provisions for significant litigation - We will include provisions for litigation matters which we believe are not representative of our core business operations.
- Tax effects of internal reorganizations - Relates to the U.S. income tax expense resulting from the completion of internal reorganizations of the ownership of certain businesses that reduced the investments held by our U.S.-controlled subsidiaries.

These non-GAAP measures are not defined in the same manner by all companies and may not be comparable to other similarly titled measures of other companies. Non-GAAP measures should be considered in addition to, and not as a substitute for, the information contained within our consolidated financial statements.

Constant Currency Change and Organic Change

We evaluate our revenue on an as reported (U.S. GAAP), constant currency and organic basis. We believe presenting constant currency and organic information provides valuable supplemental information regarding our comparable results, consistent with how we evaluate our performance internally.

- *Constant Currency Change* - Represents the year-over-year change in revenue excluding the impact of foreign currency fluctuations. To calculate this impact, the prior year local currency results are first translated using the current year monthly average exchange rates. The change is calculated by comparing the prior year revenue, translated at the current year monthly average exchange rates, to the current year as reported revenue, for the same period. We believe constant currency measures provide useful information to investors because they provide transparency to performance by excluding the effects that foreign currency exchange rate fluctuations have on period-over-period comparability given volatility in foreign currency exchange markets.
- *Organic Change* - Excludes the impact of fluctuations in foreign currency exchange rates as described above and the period-over-period impact of acquisitions and divestitures on current-year revenue. We believe that excluding

transaction-related items from our U.S. GAAP financial measures provides useful supplemental information to our investors, and it is important in illustrating what our core operating results would have been had we not included these transaction-related items, since the nature, size and number of these transaction-related items can vary from period to period.

The constant currency and organic change results, and a reconciliation from the reported results for consolidated revenue, are included in the 'Consolidated Revenue' section above. These measures are also reported by segment in the 'Segment Revenue' section above.

A reconciliation of the reported change to the constant currency and organic change for the year ended December 31, 2019 from the year ended December 31, 2018 is as follows:

	Years ended December 31,		As Reported Change	Components of Revenue Change ⁽ⁱ⁾			
	2019	2018		Currency Impact	Constant Currency Change	Acquisitions/ Divestitures	Organic Change
	(\$ in millions)						
Revenue	\$ 9,039	\$ 8,513	6%	(2)%	9%	3%	5%

(i) Components of revenue change may not add due to rounding.

Adjusting for the impacts of foreign currency and acquisitions and disposals in the calculation of our organic activity, our revenue grew by 5% for the year ended December 31, 2019. This organic increase in revenue was driven by strong performances in all segments.

Adjusted Operating Income/Margin

We consider adjusted operating income/margin to be important financial measures, which are used to internally evaluate and assess our core operations and to benchmark our operating results against our competitors.

Adjusted operating income is defined as income from operations adjusted for amortization, transaction and integration expenses and non-recurring items that, in management's judgment, significantly affect the period-over-period assessment of operating results. Adjusted operating income margin is calculated by dividing adjusted operating income by revenue.

Reconciliations of income from operations to adjusted operating income for the years ended December 31, 2019 and 2018 are as follows:

	Years Ended December 31,	
	2019	2018
	(in millions)	
Income from operations	\$ 1,329	\$ 809
Adjusted for certain items:		
Amortization	489	534
Transaction and integration expenses	13	202
Adjusted operating income	\$ 1,831	\$ 1,545
Income from operations margin	14.7%	9.5%
Adjusted operating income margin	20.3%	18.1%

Adjusted operating income increased for the year ended December 31, 2019 to \$1.8 billion, from \$1.5 billion for the year ended December 31, 2018, primarily due to organic revenue growth across all segments. Additionally, on a year-to-date basis, salaries and benefits expense as a percentage of revenue decreased from 60% to 58%.

Adjusted EBITDA/Margin

We consider adjusted EBITDA/margin to be important financial measures, which are used to internally evaluate and assess our core operations, to benchmark our operating results against our competitors and to evaluate and measure our performance-based compensation plans.

Adjusted EBITDA is defined as net income adjusted for provision for income taxes, interest expense, depreciation and amortization, transaction and integration expenses, (gain)/loss on disposal of operations and non-recurring items that, in management's judgment, significantly affect the period-over-period assessment of operating results. Adjusted EBITDA margin is calculated by dividing adjusted EBITDA by revenue.

Reconciliations of net income to adjusted EBITDA for the years ended December 31, 2019 and 2018 are as follows:

	Years Ended December 31,	
	2019	2018
	(in millions)	
NET INCOME	\$ 1,073	\$ 715
Provision for income taxes	249	136
Interest expense	234	208
Depreciation	240	208
Amortization	489	534
Transaction and integration expenses	13	202
Pension settlement and curtailment gains and losses	—	24
Loss on disposal of operations	2	9
Adjusted EBITDA	<u>\$ 2,300</u>	<u>\$ 2,036</u>
Net income margin	11.9%	8.4%
Adjusted EBITDA margin	25.4%	23.9%

Adjusted EBITDA for the year ended December 31, 2019 was \$2.3 billion, compared to \$2.0 billion for the year ended December 31, 2018. This increase was primarily due to organic revenue growth across all segments and the addition of TRANZACT's operating results, partially offset by higher base salary adjustments, severance costs and incentive accruals and decreased pension income.

Adjusted Net Income and Adjusted Diluted Earnings Per Share

Adjusted net income is defined as net income attributable to Willis Towers Watson adjusted for amortization, transaction and integration expenses, (gain)/loss on disposal of operations and non-recurring items that, in management's judgment, significantly affect the period-over-period assessment of operating results, the related tax effect of those adjustments and the tax effects of internal reorganizations. This measure is used solely for the purpose of calculating adjusted diluted earnings per share.

Adjusted diluted earnings per share is defined as adjusted net income divided by the weighted-average number of shares of common stock, diluted. Adjusted diluted earnings per share is used to internally evaluate and assess our core operations and to benchmark our operating results against our competitors.

Willis Towers Watson plc

Reconciliations of net income attributable to Willis Towers Watson to adjusted diluted earnings per share for the years ended December 31, 2019 and 2018 are as follows:

	Years Ended December 31,	
	2019	2018
	(\$ and weighted-average shares in millions)	
NET INCOME ATTRIBUTABLE TO WILLIS TOWERS WATSON	\$ 1,044	\$ 695
Adjusted for certain items:		
Amortization	489	534
Transaction and integration expenses	13	202
Pension settlement and curtailment gains and losses	—	24
Loss on disposal of operations	2	9
Tax effect on certain items listed above ⁽ⁱ⁾	(121)	(184)
Tax effects of internal reorganizations	—	4
Adjusted net income	\$ 1,427	\$ 1,284
Weighted-average shares of common stock — diluted	130	132
Diluted earnings per share	\$ 8.02	\$ 5.27
Adjusted for certain items ⁽ⁱⁱ⁾ :		
Amortization	3.75	4.04
Transaction and integration expenses	0.10	1.53
Pension settlement and curtailment gains and losses	—	0.18
Loss on disposal of operations	0.02	0.07
Tax effect on certain items listed above ⁽ⁱ⁾	(0.93)	(1.39)
Tax effects of internal reorganizations	—	0.03
Adjusted diluted earnings per share	\$ 10.96	\$ 9.73

(i) The tax effect was calculated using an effective tax rate for each item.

(ii) Per share values and totals may differ due to rounding.

Our adjusted diluted earnings per share increased for the year ended December 31, 2019 as compared to the year ended December 31, 2018 primarily due to organic revenue growth across all segments and the addition of TRANZACT's operating results, partially offset by higher base salary adjustments, severance costs and incentive accruals and decreased pension income.

Adjusted Income Before Taxes and Adjusted Income Taxes/Tax Rate

Adjusted income before taxes is defined as income from operations before income taxes adjusted for amortization, transaction and integration expenses, (gain)/loss on disposal of operations and non-recurring items that, in management's judgment, significantly affect the period-over-period assessment of operating results. Adjusted income before taxes is used solely for the purpose of calculating the adjusted income tax rate.

Adjusted income taxes/tax rate is defined as the provision for income taxes adjusted for taxes on certain items of amortization, transaction and integration expenses, (gain)/loss on disposal of operations, the tax effects of internal reorganizations and non-recurring items that, in management's judgment, significantly affect the period-over-period assessment of operating results, divided by adjusted income before taxes. Adjusted income taxes is used solely for the purpose of calculating the adjusted income tax rate.

Management believes that the adjusted income tax rate presents a rate that is more closely aligned to the rate that we would incur if not for the reduction of pre-tax income for the adjusted items and the tax effects of our internal reorganizations, which are not core to our current and future operations.

Reconciliations of income from operations before income taxes to adjusted income before taxes and provision for/(benefit from) income taxes to adjusted income taxes for the years ended December 31, 2019 and 2018 are as follows:

	Years Ended December 31,	
	2019	2018
	(\$ in millions)	
INCOME FROM OPERATIONS BEFORE INCOME TAXES	\$ 1,322	\$ 851
Adjusted for certain items:		
Amortization	489	534
Transaction and integration expenses	13	202
Pension settlement and curtailment gains and losses	—	24
Loss on disposal of operations	2	9
Adjusted income before taxes	<u>\$ 1,826</u>	<u>\$ 1,620</u>
Provision for income taxes	\$ 249	\$ 136
Tax effect on certain items listed above ⁽ⁱ⁾	121	184
Tax effects of internal reorganizations	—	(4)
Adjusted income taxes	<u>\$ 370</u>	<u>\$ 316</u>
U.S. GAAP tax rate	18.8%	16.0%
Adjusted income tax rate	20.3%	19.5%

(i) The tax effect was calculated using an effective tax rate for each item.

Our U.S. GAAP tax rates were 18.8% and 16.0% for the years ended December 31, 2019 and 2018, respectively. Our adjusted income tax rates were 20.3% and 19.5% for the years ended December 31, 2019 and 2018, respectively. The U.S. GAAP tax rate and the adjusted income tax rate for the year ended December 31, 2018 were lower primarily due to the release of a valuation allowance on certain state deferred tax assets in connection with a U.S. internal restructuring and the global mix of income in 2018.

Free Cash Flow

Free cash flow is defined as cash flows from operating activities less cash used to purchase fixed assets and software for internal use. Free cash flow is a liquidity measure and is not meant to represent residual cash flow available for discretionary expenditures.

Management believes that free cash flow presents the core operating performance and cash generating capabilities of our business operations.

Reconciliations of cash flows from operating activities to free cash flow for the years ended December 31, 2019 and 2018 are as follows:

	Years ended December 31,	
	2019	2018
	(in millions)	
Cash flows from operating activities	\$ 1,081	\$ 1,288
Less: Additions to fixed assets and software for internal use	(246)	(268)
Free cash flow	<u>\$ 835</u>	<u>\$ 1,020</u>

The decrease in free cash flows in 2019 as compared to 2018 primarily resulted from unfavorable working capital changes, particularly in accounts receivable, and the negative cash flows of TRANZACT.

Subsequent Events

Proposed Acquisition by Aon plc

On March 9, 2020, WTW and Aon plc ('Aon') issued an announcement disclosing that the boards of directors of WTW and Aon had reached agreement on the terms of a recommended acquisition of WTW by Aon. Under the terms of the agreement each Parent Company shareholder will receive 1.08 Aon ordinary shares for each WTW ordinary share. Upon completion of the combination, existing Aon shareholders will own approximately 63% and existing WTW shareholders will own approximately 37% of the combined company on a fully diluted basis.

The transaction is subject to the approval of the shareholders of both WTW and Aon, as well as other customary closing conditions, including required regulatory approvals. The parties expect the transaction to close in the first half of 2021, subject to satisfaction of these conditions.

COVID-19

The Directors have considered the impact of COVID-19 on the Company, which is a non-adjusting post balance sheet event. Assets and liabilities have been measured based on events and conditions at the balance sheet date. It is not practical to provide further quantitative disclosure of the impact of COVID-19 on assets and liabilities.

Principal Risks and Uncertainties

In addition to the factors discussed elsewhere in this report, the following are some of the important factors that could cause our actual results to differ materially from those projected in any forward-looking statements. These risk factors should be carefully considered in evaluating our business. The descriptions below are not the only risks and uncertainties that we face. Additional risks and uncertainties that are presently unknown to us could also impair our business operations, financial condition or results. If any of the risks and uncertainties below or other risks were to occur, our business operations, financial condition or results of operations could be materially and adversely impacted. **With respect to the tax-related consequences of acquisition, ownership and disposal of ordinary shares, you should consult with your own tax advisors.**

Strategic and Operational Risks

Our success largely depends on our ability to achieve our global business strategy as it evolves, and our results of operations and financial condition could suffer if the Company were unable to successfully establish and execute on its strategy and generate anticipated revenue growth and cost savings and efficiencies.

Our future growth, profitability and cash flows largely depend upon our ability to successfully establish and execute our global business strategy. As discussed under 'Review of Developments and Business Performance - Business Strategy' above, we seek to be an advisory, broking and solutions provider of choice through an integrated global platform. While we have confidence that our strategic plan reflects opportunities that are appropriate and achievable, there is a possibility that our strategy may not deliver projected long-term growth in revenue and profitability due to inadequate execution, incorrect assumptions, global or local economic conditions, competition, changes in the industries in which we operate, sub-optimal resource allocation or any of the other risks described in this 'Principal Risks and Uncertainties' section. In addition, our strategy continues to evolve, and it is possible that we will be unable to successfully execute the associated strategy changes, due to factors discussed above or elsewhere in this 'Principal Risks and Uncertainties' section. In pursuit of our growth strategy, we may also invest significant time and resources into new product or service offerings, and there is the possibility that these offerings may fail to yield sufficient return to cover their investment. The failure to continually develop and execute optimally on our global business strategy could have a material adverse effect on our business, financial condition and results of operations.

Demand for our services could decrease for various reasons, including a general economic downturn, increased competition, or a decline in a client's or an industry's financial condition or prospects, all of which could materially adversely affect us.

We can give no assurance that the demand for our services will grow or be maintained, or that we will compete successfully with our existing competitors, new competitors or our clients' internal capabilities. Client demand for our services may change based on the clients' needs and financial conditions, among other factors.

Our results of operations are affected directly by the level of business activity of our clients, which in turn is affected by the level of economic activity in the industries and markets that they serve. For example, any changes in U.S. trade policy (including any increases in tariffs that result in a trade war), ongoing stock market volatility or an increase in, or unmet market expectations with respect to, interest rates could adversely affect the general economy. As a result, global financial markets may continue to experience disruptions, including increased volatility and reduced credit availability, which could substantially impact our results. Likewise, the coronavirus emanating from China could have a material adverse impact on global demand

from our clients, in addition to the potential impact of pandemics on our own operations discussed elsewhere in this report. While it is difficult to predict the consequences of any deterioration in global economic conditions on our business, any significant reduction or delay by our clients in purchasing our services or insurance or making payment of premiums could have a material adverse impact on our financial condition and results of operations. In addition, the potential for a significant insurer to fail, be downgraded or withdraw from writing certain lines of insurance coverages that we offer our clients could negatively impact overall capacity in the industry, which could then reduce the placement of certain lines and types of insurance and reduce our revenue and profitability. The potential for an insurer to fail or be downgraded could also result in errors and omissions claims by clients.

In addition, the markets for our principal services are highly competitive. Our competitors include other insurance brokerage (including direct-to-consumer Medicare brokerage), human capital and risk management consulting and actuarial firms, and the human capital and risk management divisions of diversified professional services, insurance, brokerage and accounting firms and specialty, regional and local firms.

Competition for business is intense in all of our business lines and in every insurance market, and some competitors have greater market share in certain lines of business than we do. Some of our competitors have greater financial, technical and marketing resources than us, which could enhance their ability to finance acquisitions, fund internal growth and respond more quickly to professional and technological changes. New competitors, as well as increasing and evolving consolidation or alliances among existing competitors, have created and could continue to create additional competition and could significantly reduce our market share, resulting in a loss of business for us and a corresponding decline in revenue and profit margin. In order to respond to increased competition and pricing pressure, we may have to lower our prices, which would also have an adverse effect on our revenue and profit margin.

In addition, existing and new competitors could develop competing technologies or product or service offerings that disrupt our industries. Any new technology or product or service offering (including insurance companies selling their products directly to consumers or other insureds) that reduces or eliminates the need for intermediaries in insurance or reinsurance sales transactions could have a material adverse effect on our business and results of operations. Further, the increasing willingness of clients to either self-insure or maintain a captive insurance company, and the development of capital markets-based solutions and other alternative capital sources for traditional insurance and reinsurance needs, could also materially adversely affect us and our results of operations.

An example of a business that may be significantly impacted by changes in customer demand is our retirement consulting and actuarial business, which comprises a substantial portion of our revenue and profit. We provide clients with actuarial and consulting services relating to both defined benefit and defined contribution pension plans. Defined benefit pension plans generally require more actuarial services than defined contribution plans because defined benefit plans typically involve large asset pools, complex calculations to determine employer costs, funding requirements and sophisticated analysis to match liabilities and assets over long periods of time. If organizations shift to defined contribution plans more rapidly than we anticipate, or if we are unable to otherwise compensate for the decline in our business that results from employers moving away from defined benefit plans, our business, financial condition and results of operations could be materially adversely affected. Furthermore, large and complex consulting projects, often involving dedicated personnel, resources and expenses, comprise a significant portion of this business, which are based on our clients' discretionary needs and may be reduced based on a decline in a client's or an industry's financial condition or prospects. We also face the risk that certain large and complex project contracts may be reduced or terminated based on dissatisfaction with service levels, which could result in reduced revenue, write-offs of assets associated with the project, and disputes over the contract, all of which may adversely impact our results and business.

In addition, the demand for many of our core benefit services, including compliance-related services, is affected by government regulation and taxation of employee benefit plans. Significant changes in tax or social welfare policy or other regulations could lead some employers to discontinue their employee benefit plans, including defined benefit pension plans, thereby reducing the demand for our services. A simplification of regulations or tax policy also could reduce the need for our services.

Data security breaches or improper disclosure of confidential company or personal data could result in material financial loss, regulatory actions, reputational harm or legal liability.

We depend on information technology networks and systems to process, transmit and store electronic information and to communicate among our locations around the world and with our alliance partners, insurance carriers/markets and clients. Additionally, one of our significant responsibilities is to maintain the security and privacy of our clients' confidential and proprietary information and the personal data of their customers and/or employees. Our information systems, and those of our third-party service providers and vendors, are vulnerable to an increasing threat of continually evolving cybersecurity risks. We are the target of computer viruses, hackers, distributed denial of service attacks, malware infections, ransomware attacks, phishing and spear-phishing campaigns and other external hazards, as well as improper or inadvertent staff behavior which, could expose confidential company and personal data systems and information to security breaches.

Many of the software applications that we use in our business are licensed from, and supported, upgraded and maintained by, third-party vendors. Our third-party applications include enterprise cloud storage and cloud computing application services provided and maintained by third-party vendors. These third-party applications store confidential and proprietary data of the Company, our employees and our clients. We have processes designed to require third-party IT outsourcing, offsite storage and other vendors to agree to maintain certain standards with respect to the storage, protection and transfer of confidential, personal and proprietary information. However, we remain at risk of compromising this data, including as a result of a data breach due to the intentional or unintentional non-compliance by a vendor's employee or agent, the breakdown of a vendor's data protection processes, or a cyber-attack on a vendor's information systems. Further, the risk and potential impact of a data breach of our third-party vendors' systems increase as we move more of our data and our clients' data into our vendors' cloud storage, we engage in IT outsourcing or we consolidate the group of third-party vendors that provide cloud storage or other IT services for the Company.

We and our vendors regularly experience cybersecurity incidents, including successful attacks from time to time, and we expect that to continue going forward. Cybersecurity incidents also include those resulting from human error or malfeasance, implantation of malware and viruses, phishing and spear-phishing attacks, unauthorized access to our information technology networks and systems, and unauthorized access to data or individual account funds through fraud or other means of deceiving our colleagues, third-party service providers and vendors. We have experienced successful attacks, by various types of hacking groups, in which personal and commercially sensitive information, belonging to us or our clients, has been compromised. However, none of these cybersecurity incidents or attacks to our knowledge have been material to our business or financial results. We cannot assure that such cybersecurity incidents or attacks will not be material in the future. When required by law, we have notified individuals and relevant regulatory authorities (such as state attorney generals, state insurance regulators, the U.S. Department of Health and Human Services, and the U.K.'s Information Commissioner's Office) of such cybersecurity incidents or attacks.

Over time, the frequency, severity and sophistication of the attacks against us have increased. We maintain policies, procedures and technological safeguards (such as, where in place, multifactor authentication and encryption of data in transit and at rest) designed to protect the security and privacy of this information. However, such safeguards are time-consuming and expensive to deploy broadly and are not necessarily always in place or effective, and we cannot entirely eliminate the risk of data security breaches, improper access to, takeover of or disclosure of confidential company or personally identifiable information. We may not be able to detect and assess such issues, or implement appropriate remediation, in a timely manner. We are engaged in an ongoing effort to enhance our protections against attack; this effort will require significant expenditures and may not be successful. Our technology may fail to adequately secure the private information we hold and protect it from theft, computer viruses, hackers or inadvertent loss.

If any person, including any of our colleagues, intentionally or unintentionally fails to comply with, disregards or intentionally breaches our established controls with respect to such data or otherwise mismanages or misappropriates that data, we could be subject to monetary damages, fines, regulatory enforcement or criminal prosecution. Unauthorized disclosure of sensitive or confidential client, supplier or employee data, whether through systems failure, accident, employee negligence, fraud or misappropriation, could damage our reputation and cause us to lose clients. Similarly, unauthorized access to or through our information systems or those we develop for our clients, whether by our colleagues or third parties, could result in significant additional expenses (including expenses relating to incident response and investigation, remediation work, notification of data security breaches and costs of credit monitoring services), negative publicity, legal liability and damage to our reputation, as well as require substantial resources and effort of management, thereby diverting management's focus and resources from business operations.

The methods used to obtain unauthorized access, disable or degrade service or sabotage systems are also constantly changing and evolving; continue to become more sophisticated and complex; and may be difficult to anticipate or detect. For example, the Cyber Division of the U.S. Federal Bureau of Investigation ('FBI') has noted that cyber criminals have targeted, and may increasingly target, assets held in Health Savings Accounts and Reimbursement Accounts to fraudulently acquire the assets held in those accounts. Assets held in Health Savings Accounts are expected to grow substantially over the next few years. We have experienced incidents in which unauthorized actors compromised personal information, including through the use of unlawfully obtained demographic information. These incidents have not had a material impact on our business or operations thus far but, given the Company's move toward managing more of these assets ourselves as a non-bank custodian, our reputation could be harmed and our business and results of operations could be materially adversely affected if we were the target of such fraud in the future.

We have implemented and regularly review and update processes and procedures to protect against fraud or unauthorized access to or use of secured data and to prevent data loss. The ever-evolving threats mean that we and our third-party service providers and vendors must continually evaluate, adapt, enhance and otherwise improve our respective systems and processes, especially as we grow our mobile, cloud and other internet-based services. There is no guarantee that such efforts will be adequate to safeguard against all fraud, data security breaches, unauthorized access, operational impacts or misuses of data. For example, our policies, employee training (including phishing prevention training), procedures and technical safeguards may be

insufficient to prevent or detect improper access to confidential, personal or proprietary information by employees, vendors or other third parties with otherwise legitimate access to our systems. In addition, we may not be able to implement such efforts as quickly as desired if, for example, greater resources are required than originally expected or resources and management's focus are insufficient. Any future significant compromise or breach of our data security or fraud, whether external or internal, or misuse of client, colleague, supplier or company data, could result in additional significant costs, lost revenue opportunities, fines, lawsuits, and damage to our reputation with our clients and in the broader market.

We could be subject to claims and lawsuits arising from our work, which could materially adversely affect our reputation, business and financial condition.

We depend in large part on our relationships with clients and our reputation for high-quality services to secure future engagements. Clients that become dissatisfied with our services may terminate their business relationships with us, and clients and third parties that claim they suffered damages caused by our services may bring lawsuits against us. We are subject to various actual and potential claims, lawsuits, investigations and other proceedings relating principally to alleged errors and omissions in connection with the provision of our services or the placement of insurance and reinsurance in the ordinary course of business. We are also subject to actual and potential claims, lawsuits, investigations and proceedings outside of errors and omissions claims. See Note 16 to the Consolidated Financial Statements for examples of claims to which we are subject.

Because we often assist our clients with matters involving substantial amounts of money and complex regulatory requirements, including actuarial services, asset management, technology solutions development and implementation and the placement of insurance coverage and the handling of related claims, errors and omissions claims against us may arise that allege our potential liability for all or part of the substantial amounts in question. The nature of our work, particularly our actuarial services, necessarily involves the use of assumptions and the preparation of estimates relating to future and contingent events, the actual outcome of which we cannot know in advance. Our actuarial and brokerage services also rely on substantial amounts of data provided by clients, the accuracy and quality of which we may not be able to ensure. In addition, we could make computational, software programming or data management errors in connection with the services we provide to clients.

Clients may seek to hold us responsible for alleged errors or omissions relating to any of the brokerage advice and services we provide, including when claims they submit to their insurance carriers are disputed or denied. Given that many of our clients have very high insurance policy limits to cover their risks, alleged errors and omissions claims against us arising from disputed or denied claims are often significant. Moreover, in certain circumstances, our brokerage, investment and certain other types of business may not limit the maximum liability to which we may be exposed for claims involving alleged errors or omissions; and as such, we do not have limited liability for the work we provide to the associated clients.

Further, given that we frequently work with large pension funds and insurance companies as well as other large clients, relatively small percentage errors or variances can create significant financial variances and result in significant claims for unintended or unfunded liabilities. The risks from such variances or errors could be aggravated in an environment of declining pension fund asset values and insurance company capital levels. In almost all cases, our exposure to liability with respect to a particular engagement is substantially greater than the revenue opportunity that the engagement generates for us.

Clients may seek to hold us responsible for the financial consequences of variances between assumptions and estimates and actual outcomes or for errors. For example, in the case of pension plan actuarial work, a client's claims might focus on the client's alleged reliance on actuarial assumptions that it believes were unreasonable and, based on such reliance, the client made benefit commitments that it may later claim are not affordable or funding decisions that result in plan underfunding if and when actual outcomes vary from actuarial assumptions.

We also continue to create new products and services (including increasingly complex technology solutions) and to grow the business of providing products and services to institutional investors, financial services companies and other clients. The risk of claims from these lines of business and related products and services may be greater than from our core products or services, and such claims may be for significant amounts as we take on increasingly complicated projects, including those with complex regulatory requirements.

We also provide advice on both asset allocation and selection of investment managers. Increasingly, for many clients, we are responsible for making decisions on both of these matters, or we may serve in a fiduciary capacity, either of which may increase liability exposure. In addition, the Company offers affiliated investment funds, including in the U.S. and Ireland, with plans to launch additional funds over time. Given that our Investment business may recommend affiliated investment funds or affirmatively invest such clients' assets in such funds under delegated authority, this may increase our liability exposure. We may also be liable for actions of managers or other service providers to the funds. Further, for certain clients, we are responsible for some portions of cash and investment management, including rebalancing of investment portfolios and guidance to third parties on the structure of derivatives and securities transactions. Asset classes may experience poor absolute performance, and investment managers may underperform their benchmarks; in both cases the investment return shortfall can be significant. Clients experiencing this underperformance, including from our affiliated investment funds, may assert claims against us, and such claims may be for significant amounts. In addition, our failure to properly execute our role can cause monetary damage to

our clients or such third parties for which we might be found liable, and such claims may be for significant amounts. Our expected expansion of this business geographically and in new offerings will subject us to additional contractual exposures and obligations with investors, asset managers and third-party service providers, as well as increased regulatory exposures. Overall, our ability to contractually limit our potential liability may be limited in certain jurisdictions or markets or in connection with claims involving breaches of fiduciary duties or other alleged errors or omissions.

The ultimate outcome of all of the above matters cannot be ascertained and liabilities in indeterminate amounts may be imposed on us. In addition, our insurance coverage may not be sufficient in type or amount to cover us against such liabilities. It is thus possible that future results of operations or cash flows for any particular quarterly or annual period could be materially adversely affected by an unfavorable resolution of these matters. In addition, these matters continue to divert management and personnel resources away from operating our business. Even if we do not experience significant monetary costs, there may be adverse publicity associated with these matters that could result in reputational harm to the industries we operate in or to us in particular that may adversely affect our business, client or employee relationships. In addition, defending against these claims can involve potentially significant costs, including legal defense costs.

As a highly-regulated company, we are subject from time to time to inquiries or investigations by governmental agencies or regulators that could have a material adverse effect on our business or results of operations.

We have also been and may continue to be subject to inquiries and investigations by federal, state or other governmental agencies regarding aspects of our clients' businesses or our own businesses, especially regulated businesses such as our insurance broker, securities broker-dealer and investment advisory services. Such inquiries or investigations may consume significant management time and result in regulatory sanctions, fines or other actions as well as significant legal fees, which could have a material adverse impact on our business, results of operations and liquidity. Also, we may face additional regulatory scrutiny as we expand our businesses geographically and in new products and services that we offer.

Examples of these inquiries or investigations are set forth in more detail in Note 16 to the Consolidated Financial Statements. These include various ongoing civil investigation proceedings in respect of alleged exchanges of commercially sensitive information among competitors in aviation and aerospace insurance and reinsurance broking.

All of these items reflect an increased focus by regulators (in the U.K., U.S. and elsewhere) on various aspects of the operations and affairs of our regulated businesses. We are unable to predict the outcome of these inquiries or investigations. Any proposed changes that result from these investigations and inquiries, or any other investigations, inquiries or regulatory developments, or any potential fines or enforcement action, could materially adversely affect our business and our results of operations.

Our growth strategy depends, in part, on our ability to make acquisitions and we face risks when we acquire or divest businesses, and could have difficulty in acquiring, integrating or managing acquired businesses, or with effecting internal reorganizations, all of which could harm our business, financial condition, results of operations or reputation.

Our growth depends in part on our ability to make acquisitions. We may not be successful in identifying appropriate acquisition candidates or consummating acquisitions on terms acceptable or favorable to us. We also face additional risks related to acquisitions, including that we could overpay for acquired businesses and that any acquired business could significantly underperform relative to our expectations. In addition, we may not repurchase as many of our outstanding shares as anticipated due to our acquisition activity or investment opportunities, as well as other market or business conditions. If we are unable to identify and successfully make, integrate and manage acquisitions, our business could be materially adversely affected. In addition, we face risks related to divesting businesses, including that we may not receive adequate consideration in return for the divested business, we may continue to be subject to the liabilities of the divested business after its divestiture (including with respect to work we might have performed on behalf of the divested business), and we may not be able to reduce overhead or redeploy assets or retain colleagues after the divestiture closes. For example, we recently announced that we are exploring strategic alternatives with respect to Miller, and we may face these types of risks if we were to pursue a transaction.

In addition, we cannot be certain that our acquisitions will be accretive to earnings or that our acquisitions or divestitures will otherwise meet our operational or strategic expectations. Acquisitions involve special risks, including the potential assumption of unanticipated liabilities and contingencies and difficulties in integrating acquired businesses, and acquired businesses may not achieve the levels of revenue, profit or productivity we anticipate or otherwise perform as we expect. In addition, if the operating performance of an acquired business deteriorates significantly, we may need to write down the value of the goodwill and other acquisition-related intangible assets recorded on our consolidated balance sheet.

We may be unable to effectively integrate an acquired business into our organization, and may not succeed in managing such acquired businesses or the larger company that results from such acquisitions. The process of integrating an acquired business may subject us to a number of risks, including, without limitation, an inability to retain the management, key personnel and other employees of the acquired business; an inability to establish uniform standards, controls, systems, procedures and policies or to achieve anticipated savings; and exposure to legal claims for activities of the acquired business prior to acquisition.

Certain recently-completed or pending acquisitions, including the acquisition on July 30, 2019 of TRANZACT, a U.S.-based direct-to-consumer health care organization that links individuals to U.S. insurance carriers, and the acquisition of Unity Group, an insurance broking business with operations in six Central American countries, entail important incremental risks in addition to those described above. With respect to our TRANZACT business, we may be unable to successfully integrate direct-to-consumer sales and marketing solutions with our existing offerings at the times and to the extent anticipated. With respect to both transactions, we face the risk related to the potential impacts of the transaction and integration on relationships, including with employees, correspondents, suppliers, clients and competitors, as well as the risk related to contingent liabilities (including litigation) potentially creating material liabilities for the Company. The following risks, in addition to those described above, may also adversely affect our ability to successfully implement and integrate these acquisitions: material changes in U.S. and foreign jurisdiction regulations (including those related to the healthcare system and Medicare and insurance brokerage services); changes in general economic, business and political conditions in relevant markets, including changes in the financial markets; significant competition in the marketplace; and compliance with extensive and evolving government regulations in the U.S. and in foreign jurisdictions.

If acquisitions are not successfully integrated and the intended benefits of the acquisitions are not achieved, our business, financial condition and results of operations could be materially adversely affected, as well as our professional reputation. We also own an interest in a number of associates and companies where we do not exercise management control and we are therefore limited in our ability to direct or manage the business to realize the anticipated benefits that we could achieve if we had full ownership.

We have been impacted by the COVID-19 pandemic, and may be materially and adversely impacted by it in the future.

Recently, the COVID-19 pandemic ('COVID 19') has had an adverse impact on global commercial activity, including the global supply chain; and has contributed to significant volatility in financial markets, including, among others, a decline in equity markets, changes in interest rates and reduced liquidity. It has also resulted in increased travel restrictions and extended shutdowns of businesses in various industries including, among others, travel, trade, tourism, health systems and food supply, and significantly reduced overall economic output. As such, there is a risk that COVID-19 could have a material adverse impact on client demand and cash flow.

COVID-19 risks could magnify other risks discussed in this report. For example, the effectiveness of external parties, including governmental and non-governmental organizations, in combating the spread and severity of COVID-19 could have a material impact on demand for our business. In addition, steps taken by market counterparties such as (re)insurance carriers to limit their exposures to COVID-19 and related risks could have an impact on their willingness to provide or renew coverage for our clients on historical terms and pricing, which could again impact demand for our business. Coverage disputes arising out of the pandemic could also increase our professional liability risk by increasing the frequency and severity of allegations by others that, in the course of providing services, we have committed errors or omissions for which we should have liability. Also, travel restrictions have caused the postponement or cancellation of various conferences and meetings around the world and adversely impacted sales activity. The rapid development and fluidity of this situation precludes any prediction as to the ultimate adverse impact of COVID-19 on our business. Nevertheless, COVID-19 presents material uncertainty and risk with respect to demand for our products and services.

In addition, COVID-19 could materially disrupt our own business operations and the services we provide, as well as the business operations of our clients, suppliers and other third parties with whom we interact. As an increasing percentage of our colleagues work remotely, we face resiliency risks, such as the risk that our information technology platform could potentially be inadequate to support increasing demand, as well as the risk that unusual working arrangements could impact the effectiveness of our operations or controls. In addition, we depend on third-party platforms and other infrastructure to provide certain of our products and services, and such third-party infrastructures face similar resiliency risks. Also, a potential COVID-19 infection of any of our key colleagues could materially and adversely impact our operations. Further, it is possible that COVID-19 causes us to close down call centers and other processes on which we rely, or impacts processes of third-party vendors on whom we rely, which could also materially impact our operations. The rapidly evolving changes in financial markets could also have a material impact on our own hedging and other financial transactions, which could impact our liquidity. In addition, it is possible that COVID-19 restrictions create difficulty in us meeting our filing or other obligations with the SEC and other regulators.

All of the foregoing events or potential outcomes could cause a material adverse effect on our results of operations in any period and, depending on their severity, could also materially and adversely affect our financial condition. In addition, such events and outcomes could potentially impact our reputation with clients and regulators, among others.

The board of directors currently does not consider that these uncertainties cast significant doubt upon the Company's ability to continue as a going concern. Further details of the going concern analysis carried out by the directors is set out in Note 2 to the Consolidated Financial Statements.

Our pending combination with Aon creates incremental business, regulatory and reputational risks.

On March 9, 2020, the Company announced that it had entered into a business combination agreement with Aon. The proposed transaction with Aon entails important risks, including, among others: the risk that we are unable to obtain the requisite shareholder or regulatory approvals or satisfy all of the other conditions required to consummate the proposed transaction on the proposed terms and schedule, if at all; the risk that we and Aon are unable to successfully integrate our combined operations and employees and realize the proposed transaction's benefits, including potential synergies, or that we are unable to realize such benefits at the times and to the extent anticipated or that results are different from those contained in forecasts when made; the risk that transaction and/or integration costs or dis-synergies are greater than expected, including as a result of conditions regulators put on any approvals of the transaction; the potential impact of the announcement and/or consummation of the proposed transaction on relationships, including with employees, suppliers, clients and competitors; the risk that we and/or the combined company will not have the ability to hire and retain key personnel; the risk that management's attention is diverted from other matters; the risks posed by changes in general economic, business and political conditions, including changes in the financial markets and any epidemic, pandemic or disease outbreaks; the risk of potential litigation associated with the proposed transaction; the risk of disruptions from the proposed transaction that impact our and/or Aon's business, including current plans and operations; the risk posed by extensive government regulation on our business and/or the business of the combined company; the risk of adverse effects on the market price of Aon's and the Company's securities and on Aon's and the Company's operating results for any reason; and other risks described in the Company's SEC filings generally applicable to significant transactions and related integrations.

Our inability to comply with complex and evolving laws and regulations related to data privacy and cyber security could result in material financial loss, regulatory actions, reputational harm or legal liability.

We are subject to numerous U.S. and foreign jurisdiction laws and regulations designed to protect personally identifiable information of client and company constituents, colleague, supplier and company data, such as the E.U. General Data Protection Regulation ('GDPR'), regulations from other countries that prohibit the transmission of data outside of such country's borders and various U.S. federal and state laws governing the protection of health, financial or other individually identifiable information. GDPR, which became effective in May 2018, significantly increased our responsibilities when handling personal data including, without limitation, requiring us to conduct privacy impact assessments, restricting the transmission of data and requiring public disclosure of significant data breaches. Violations of GDPR may result in possible fines of up to 4% of global annual turnover for the preceding financial year or €20 million (whichever is higher). Laws and regulations in this area are evolving and generally becoming more stringent. For example, the New York State Department of Financial Services has issued cybersecurity regulations that outline a variety of required security measures for protection of data. Other U.S. states, including California, have also recently enacted laws requiring certain data security and privacy measures of regulated entities that are broadly similar to GDPR's requirements, and we expect that other states may follow with their own data privacy and data security laws as well. In the U.S., HIPAA has been in place for many years and was amended in 2009 to become more stringent. The Office for Civil Rights within the Department of Health and Human Services actively enforces those laws and regulations. Further, a U.K. exit from the E.U. will increase uncertainty regarding applicable laws and regulations pending more clarity on the terms of that exit.

All of these evolving laws and regulations, some of which may be subject to evolving interpretations or conflicts with one another, may restrict the manner in which we provide services to our clients, divert resources from other important initiatives, increase the risk of non-compliance and impose significant compliance and other costs that are likely to increase over time, and increase the risk of fines, lawsuits or other potential liability, all of which could have a material adverse effect on our business and results of operations. Our failure to adhere to or successfully implement processes in response to legal or regulatory requirements, including changing legal or regulatory requirements that may be developed or revised due to Brexit, and changing customer expectations in this area, could result in substantial legal liability and impairment to our reputation or business.

Our ability to successfully manage ongoing organizational changes could impact our business results, where the level of costs and/or disruption may be significant and change over time and the benefits may be less than we originally expect.

We have in the past few years undergone several significant business and organizational changes, including the Merger, the Gras Savoye acquisition and multi-year operational improvement programs, among others. There are also a number of other initiatives planned or ongoing to transform and update our systems and processes and gain efficiencies. In addition, our strategy continues to evolve, and such evolution may result in further organizational changes as we may decide, based on our perceived business needs, to make investments that may be greater than we currently anticipate. In connection with all these changes, we may manage a number of large-scale and complex projects. Such projects may include multiple and connected phases, many of which may be dependent on factors that are outside of our control. While we plan to undertake these types of large, complex projects based on our determination that each is necessary or desirable for the execution of the Company's business strategy, we cannot guarantee that the collective effect of all of these projects will not adversely impact our business or results of operations or that the benefits will be as we originally expect. Effectively managing these organizational changes (including ensuring that

they are implemented on schedule, within budget and without interruption to the existing business or that transitions to new systems do not create significant control vulnerabilities during the period of transition) is critical to retaining talent, servicing clients and our business success overall. Many of the risks described herein increase during periods of significant organizational change. The failure to effectively manage such risks could adversely impact our resources or business or financial results.

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

Should we experience a disaster or other business continuity problem, such as an earthquake, hurricane, terrorist attack, pandemic, security breach, power loss, telecommunications failure or other natural or man-made disaster, our continued success will depend, in part, on the availability of our personnel, our office facilities, access to data, and the proper functioning of our computer, telecommunication and other related systems and operations. In such an event, we could experience near-term operational challenges with regard to particular areas of our operations.

A disaster on a significant scale or affecting certain of our key operating areas within or across regions, or our inability to successfully recover should we experience a disaster or other business continuity problem, could materially interrupt our business operations and cause material financial loss, loss of human capital, regulatory actions, reputational harm, damaged client relationships or legal liability, particularly if any of these problems occur during peak times.

Interruption to or loss of our information processing capabilities or failure to effectively maintain and upgrade our information processing hardware or systems could cause material financial loss, regulatory actions, reputational harm or legal liability.

Our business depends significantly on effective information systems. Our capacity to service our clients relies on effective storage, retrieval, processing and management of information. Our information systems also rely on the commitment of significant financial and other resources to maintain and enhance existing systems, develop and create new systems and products in order to keep pace with continuing changes in information processing technology or evolving industry and regulatory standards and to be at the forefront of a range of technology options relevant to our business.

In addition, many of the software applications, including enterprise cloud storage and cloud computing application services, that we use in our business are licensed from, and supported, upgraded and maintained by, third-party vendors. We are significantly increasing our use of such cloud services and expect this to continue over time. These third-party applications store confidential and proprietary data of both the Company and our clients. A suspension or termination of certain of these licenses or the related support, upgrades and maintenance could cause temporary system delays or interruptions that could adversely impact our business.

If the data we rely on to run our business were found to be inaccurate or unreliable or if we fail to maintain effective and efficient systems (including through a telecommunications failure, failure to replace or update redundant or obsolete computer hardware, applications or software systems, or the loss of skilled people with the knowledge needed to operate older systems, or if we experience cost overruns, delays, or other disruptions), this could result in material financial loss, regulatory action, reputational harm or legal liability.

The United Kingdom's exit from the European Union on January 31, 2020, and the risk that other countries may follow, could adversely affect us.

In 2019, approximately 21% of our revenue was generated in the U.K., although only about 12% of revenue was denominated in Pounds sterling as much of the insurance business is transacted in U.S. dollars. Approximately 20% of our expenses were denominated in Pounds sterling. It remains difficult to predict with any level of certainty the impact that Brexit will have on the economy; economic, regulatory and political stability; and market conditions in Europe, including in the U.K., or on the Pound sterling, Euro or other European currencies, but any such impacts and others we cannot currently anticipate could materially adversely affect us and our operations. Among other things, we could experience: lower growth in the region due to indecision by businesses holding off on generating new projects or due to adverse market conditions; and reduced reported revenue and earnings because foreign currencies may translate into fewer U.S. dollars due to the fact that we translate revenue denominated in non-U.S. currencies, such as Pounds sterling, into U.S. dollars for our financial statements. In addition, there can be no assurance that our hedging strategies will be effective.

The British government and the E.U. continue to negotiate the terms of the U.K.'s future relationship with the E.U. While many separation issues have been resolved, significant uncertainty remains. It is also possible that the U.K. exits the E.U. in a potentially disruptive manner, with no agreed-upon future relationship. The Company is heavily invested in the U.K. through our businesses and activities. If Brexit negatively impacts the U.K., then it could have a material adverse impact on us. In addition, Brexit may result in greater restrictions on business conducted between the U.K. and E.U. countries and increased regulatory complexities. There is also uncertainty as to how the U.K.'s access to the E.U. Single Market and the wider trading, legal, regulatory, tax, social and labor environments, especially in the U.K. and E.U., will be impacted, including the resulting impacts on our business and that of our clients. Any such changes may adversely affect our operations and financial results. For

example, any changes to the passporting or other regulations relating to doing business in various E.U. countries by relying on a regulatory permission in the U.K. (or doing business in the U.K. by relying on a regulatory permission in an E.U. country) could increase our costs of doing business, or our ability to do so. At this point, we do not expect the current passporting regime to continue beyond the current transition period or any extension to its current expiration on December 31, 2020. Any such change, or other change in regulations could increase our costs of doing business, or in some cases, affect our ability to do business, and adversely impact our operations and financial results.

The risk remains that the U.K. will not have agreed to a comprehensive trade agreement with the E.U. or other countries by the time the transition period expires or that any such trade agreement makes no, or inadequate, provision for passporting or other matters relevant to our business operations. We are currently in the process of establishing appropriate arrangements for the continued servicing of client business in the countries expected to be most affected. These arrangements include the transaction of certain businesses and/or the movement of certain businesses outside of the U.K. However, various significant risks remain, including the following, among others:

- the risk that our proposed business solutions, such as business transfers, will not be completed in time or could cost more than expected, or that they will not be approved by regulators in the U.K. or E.U.;
- the risk that changes to our information technology required to move businesses or operations will not be completed in time;
- the risk that we may not timely complete any required changes to client contract terms and regulatory requirements, including with respect to data protection and privacy standards;
- the risk of a loss of key talent, or an inability to hire sufficient and qualified talent;
- the risk that the efforts and resources allocated to Brexit, and associated changes to our operations, cause disruptions to our existing businesses, whether inside or outside the U.K., or both;
- the risk that the U.K. will have in place no, or a limited number of, trade agreements with the E.U., its member states and/or any non-E.U. states leading to potentially adverse trading conditions with other territories; and
- the risk that the way in which the U.K. exits the E.U. is altered from current expectations, resulting in the need to quickly and materially change our plans, and the risks described above with respect to any associated changes in such plans.

There is also a risk that other countries may decide to leave the E.U. We cannot predict the impact that any additional countries leaving the E.U. will have on us, but any such impacts could materially adversely affect us.

Allegations of conflicts of interest, including in connection with accepting market derived income ('MDI'), may have a material adverse effect on our business, financial condition, results of operation or reputation.

We could suffer significant financial or reputational harm if we fail to properly identify and manage potential conflicts of interest. Conflicts of interest exist or could exist any time the Company or any of its employees have or may have an interest in a transaction or engagement that is inconsistent with our clients' interests. This could occur, for example, when the Company is providing services to multiple parties in connection with a transaction. In addition, as we provide more solutions-based services, there is greater potential for conflicts with advisory services. Managing conflicts of interest is an important issue for the Company, but can be a challenge for a large and complex company such as ours. Due to the broad scope of our businesses and our client base, we regularly address potential conflicts of interest, including, without limitation, situations where our services to a particular client or our own investments or other interests conflict, or are perceived to conflict, with the interests of another client. If these are not carefully managed, this could then lead to failure or perceived failure to protect the client's interests, with attendant regulatory and reputational risks that could materially adversely affect us and our operations. There is no guarantee that all potential conflicts of interest will be identified, and undetected conflicts may result in damage to our professional reputation and result in legal liability which may have a material adverse effect on our business. Identifying conflicts of interest may also prove particularly difficult as we continue to bring systems and information together and integrate newly acquired businesses. In addition, we may not be able to adequately address such conflicts of interest.

In addition, insurance intermediaries have traditionally been remunerated by base commissions paid by insurance carriers in respect of placements we make for clients, or by fees paid by clients. Intermediaries also obtain other revenue from insurance carriers. This revenue, when derived from carriers in their capacity as insurance markets (as opposed to as corporate clients of the intermediaries where they may be purchasing insurance or reinsurance or other non-market related services), is commonly known as market derived income or 'MDI'. MDI is another example of an area in which allegations of conflicts of interest may arise. MDI takes a variety of forms, including volume- or profit-based contingent commissions, facilities administration charges, business development agreements, and fees for providing certain data to carriers.

MDI creates various risks. Intermediaries in many markets have a duty to act in the best interests of their clients and payments from carriers can incentivize intermediaries to put carriers' or their own interests ahead of their clients. Accordingly, MDI may be subject to scrutiny by various regulators under conflict of interest, anti-trust, unfair competition, conduct and anti-bribery laws and regulations. While accepting MDI is a lawful and acceptable business practice, and while we have established systems and controls to manage these risks, we cannot predict whether our position will result in regulatory or other scrutiny and our controls may not be effective.

In addition, the Company offers affiliated investment funds, with plans to launch additional funds over time. Given that our Investment business may recommend affiliated investment funds or affirmatively invest such clients' assets in such funds under delegated authority, there may be a perceived conflict of interest. While the Company has processes, procedures and controls in place intended to mitigate potential conflicts, such perception could cause regulatory inquiries, or could impact client demand and the business' financial performance, and our controls may not be effective. In addition, underperformance by our affiliated investment funds could lead to lawsuits by clients that were invested in such funds.

The failure or perceived failure to adequately address conflicts of interest could affect the willingness of clients to deal with us, or give rise to litigation or enforcement actions. Conflicts of interest may also arise in the future that could cause material harm to us.

Damage to our reputation, including due to the failure of third parties on whom we rely to perform services or public opinions of third parties with whom we associate, could adversely affect our businesses.

Maintaining a positive reputation is critical to our ability to attract and maintain relationships with clients and colleagues. Damage to our reputation could therefore cause significant harm to our business and prospects. Harm to our reputation can arise from numerous sources, including among others, employee misconduct, litigation or regulatory action, failure to deliver minimum standards of service and quality, compliance failures, allegations of conflicts of interest and unethical behavior. Such harm could also arise from negative public opinion or political conditions arising from our association with third parties in any number of activities or circumstances. Negative perceptions or publicity, whether or not true, may result in harm to our prospects. In addition, the failure to deliver satisfactory service and quality performance, on time and within budget, in one line of business could cause clients to terminate the services we provide to those clients in many other lines of business. This risk has increased as the Company has become larger and more complex and as we take on increasingly complicated projects for our clients (such as complex outsourcing engagements and technology solutions development/implementation projects that require a significant amount of dedicated personnel resources and expenses).

In addition, as part of providing services to clients and managing our business, we rely on a number of third-party service providers. Our ability to perform effectively depends in part on the ability of these service providers to meet their obligations, as well as on our effective oversight of their performance. The quality of our services could suffer or we could be required to incur unanticipated costs if our third-party service providers do not perform as expected or their services are disrupted. This could have a material adverse effect on our reputation as well as our business and results of operations.

The loss of key colleagues could damage or result in the loss of client relationships and could result in such colleagues competing against us.

Our success depends on our ability to attract, retain and motivate qualified personnel, including key managers and colleagues. In addition, our success largely depends upon our colleagues' abilities to generate business and provide quality services. In particular, our colleagues' business relationships with our clients are a critical element of obtaining and maintaining client engagements. Labor markets have continued to tighten globally, and we have experienced intense competition and increased costs for certain types of colleagues, especially as new entrants, in insurance and reinsurance businesses (among others), expend significant resources in hiring. Also, in the past, we have lost colleagues who manage substantial client relationships or possess substantial experience or expertise; if we lose additional colleagues such as those, it could result in such colleagues competing against us. The failure to successfully attract and retain qualified personnel could materially adversely affect our ability to secure and complete engagements or could disrupt our business, which would materially adversely affect our results of operations and prospects.

In conducting our businesses around the world, we are subject to political, economic, legal, regulatory, cultural, market, operational and other risks that are inherent in operating in many countries.

In conducting our businesses and maintaining and supporting our global operations, we are subject to political, economic, legal, regulatory, market, operational and other risks. Our businesses and operations continue to expand into new regions throughout

the world, including emerging markets. The possible effects of political, economic and financial disruptions throughout the world could have an adverse impact on our businesses and financial results. These risks include:

- the general economic and political conditions in foreign countries (including political and social unrest in certain regions);
- the imposition of controls or limitations on the conversion of foreign currencies or remittance of dividends and other payments by foreign subsidiaries;
- the imposition of sanctions by both the U.S. and foreign governments;
- the imposition of withholding and other taxes on remittances and other payments from subsidiaries;
- the imposition or increase of investment and other restrictions by foreign governments;
- fluctuations in currency exchange rates or our tax rates;
- difficulties in controlling operations and monitoring employees in geographically dispersed and culturally diverse locations; and
- the practical challenges and costs of complying, or monitoring compliance, with a wide variety of foreign laws (some of which are evolving or are not as well-developed as the laws of the U.S. or U.K. or which may conflict with U.S. or other sources of law), and regulations applicable to insurance brokers and other business operations abroad (in more than 140 countries, including many in Africa), including laws, rules and regulations relating to the conduct of business, trade sanction laws administered by the U.S. Office of Foreign Assets Control, the E.U., the U.K. and the United Nations ('U.N.'), and the requirements of the U.S. Foreign Corrupt Practices Act as well as other anti-bribery and corruption rules and requirements in all of the countries in which we operate.

Sanctions imposed by governments, or changes to such sanction regulations, could have a material adverse impact on our operations or financial results.

As described above, our businesses are subject to the risk of sanctions imposed by the U.S., the E.U. and other governments. In 2019, there was an increase in U.S. designations in locations such as China, Russia and Venezuela. In recent years, there has also been an increased risk of counter-sanctions in some locations, such as Russia. Nevertheless, it is not yet clear whether and how these sanctions or potential sanctions may impact our business. As a result, we cannot predict the impacts of any changes in the U.S., E.U., U.K. or other sanctions, and whether such changes could have a material adverse impact on our operations or financial results.

Our business will be negatively affected if we are not able to anticipate and keep pace with rapid changes in government laws or regulations, or if government laws or regulations decrease the need for our services or increase our costs.

A material portion of our revenue is affected by statutory or regulatory changes. An example of a statutory or regulatory change that could materially impact us is any change to the U.S. Patient Protection and Affordable Care Act ('PPACA'), and the Healthcare and Education Reconciliation Act of 2010, ('HCERA'), which we refer to collectively as 'Healthcare Reform'. While the U.S. Congress has not passed legislation replacing or fundamentally amending Healthcare Reform (other than changes to the individual mandate), such legislation, or another version of Healthcare Reform, could be implemented in the future. In addition, some of U.S. political candidates and representatives have expressed a desire to amend all or a portion of Healthcare Reform or otherwise establish alternatives to employer-sponsored health insurance or replace it with government-sponsored health insurance, often referred to as 'Medicare for All'. Furthermore, various aspects of Healthcare Reform have been challenged in the judicial system with some success. The status of some of those challenges are in flux, but could materially change U.S. healthcare. If we are unable to adapt our services to potential new laws and regulations, or judicial modifications, with respect to Healthcare Reform or otherwise, our ability to provide effective services in these areas may be substantially impacted. In addition, more restrictive rules or interpretations of the Centers for Medicare and Medicaid Services marketing rules, or judicial decisions that restrict or otherwise change existing provisions of U.S. healthcare regulation, could have a material adverse impact on our Benefits Delivery and Administration business, including our newly acquired TRANZACT business, which focuses on direct-to-consumer Medicare policy sales. As we implement and expand our direct-to-consumer sales and marketing solutions through our Benefits Delivery and Administration business, we are subject to various federal and state laws and regulations that prescribe when and how we may market to consumers (including, without limitation, the Telephone Consumer Protection Act and other telemarketing laws and the Medicare Communications and Marketing Guidelines issued by the Center for Medicare Services of the U.S. Department of Health and Human Service). Changes to these laws could negatively affect our ability to market directly to consumers or increase our costs or liabilities.

Many other areas in which we provide services are the subject of government regulation, which is constantly evolving. For example, our activities in connection with insurance brokerage services are subject to regulation and supervision by national,

state or other authorities. Insurance laws in the markets in which we operate are often complex and generally grant broad discretion to supervisory authorities in adopting regulations and supervising regulated activities. That supervision generally includes the licensing of insurance brokers and agents and the regulation of the handling and investment of client funds held in a fiduciary capacity. Our continuing ability to provide insurance brokerage in the markets in which we currently operate is dependent upon our compliance with the rules and regulations promulgated from time to time by the regulatory authorities in each of these locations.

Changes in government and accounting regulations in the U.S. and the U.K., two of our principal geographic markets, affecting the value, use or delivery of benefits and human capital programs, may materially adversely affect the demand for, or the profitability of, our various services. In addition, we have significant operations throughout the world, which further subject us to applicable laws and regulations of countries outside the U.S. and the U.K. Changes in legislation or regulations and actions by regulators in particular countries, including changes in administration and enforcement policies, could require operational improvements or modifications, which may result in higher costs or hinder our ability to operate our business in those countries.

Our compliance systems and controls cannot guarantee that we comply with all applicable federal and state or foreign laws and regulations, and actions by regulatory authorities or changes in applicable laws and regulations in the jurisdictions in which we operate could have an adverse effect on our business.

Our activities are subject to extensive regulation under the laws of the U.S., the U.K., the E.U. and its member states, and the other jurisdictions around the world in which we operate. In addition, we own an interest in a number of associates and companies where we do not exercise management control. Over the last few years, regulators across the world are increasingly seeking to regulate brokers who operate in their jurisdictions. The foreign and U.S. laws and regulations applicable to our operations are complex, continually evolving and may increase the costs of regulatory compliance, limit or restrict the products or services we sell or subject our business to the possibility of regulatory actions or proceedings. These laws and regulations include insurance and financial industry regulations, antitrust and competition laws, economic and trade sanctions laws relating to countries in which certain subsidiaries do business or may do business ('Sanctioned Jurisdictions') such as Crimea, Cuba, Iran, Russia, Sudan, Syria and Venezuela, anti-corruption laws such as the U.S. Foreign Corrupt Practices Act, the U.K. Bribery Act 2010 and similar local laws prohibiting corrupt payments to governmental officials and the Foreign Account Tax Compliance provisions of the Hiring Incentives to Restore Employment Act in the U.S., as well as laws and regulations related to data privacy, cyber security and telemarketing. Because of changes in regulation and company practice, our non-U.S. subsidiaries are providing more services with connections to various countries, including some Sanctioned Jurisdictions, that our U.S. subsidiaries are unable to perform.

In most jurisdictions, governmental and regulatory authorities have the ability to interpret and amend these laws and regulations and impose penalties for non-compliance, including sanctions, civil remedies, monetary fines, injunctions, revocation of licenses or approvals, suspension of individuals, limitations on business activities or redress to clients. While we believe that we have substantially increased our focus on the geographic breadth of regulations to which we are subject, maintain good relationships with our key regulators and our current systems and controls are adequate, we cannot assure that such systems and controls will prevent any violations of any applicable laws and regulations. While we strive to remain fully-compliant with all applicable laws and regulations, we cannot guarantee that we will fully comply at all times with all laws and regulations, especially in countries with developing or evolving legal systems or with evolving or extra-territorial regulations. In particular, given the challenges of integrating operations, many of which are decentralized, we cannot assure that acquired or decentralized entities' business systems and controls have prevented or will prevent any and all violations of applicable laws or regulations.

Our business performance and growth plans could be negatively affected if we are not able to effectively apply technology, data and analytics to drive value for our clients through technology-based solutions or gain internal efficiencies through the effective application of technology, analytics and related tools.

Our success depends, in part, on our ability to develop and implement technology, data and analytic solutions that anticipate, lead or keep pace with rapid and continuing changes in technology both for internal operations and for maintaining industry standards and meeting client preferences. We may not be successful in anticipating or responding to these developments in a timely and cost-effective manner or in attracting and maintaining personnel with the necessary skills in this area. Additionally, our ideas may not lead to the desired internal efficiencies or be accepted in the marketplace. In addition, we may not be able to implement technology-based solutions as quickly as desired if, for example, greater resources are required than originally expected or resources are otherwise needed elsewhere. The effort to gain technological and data expertise and develop new technologies or analytic techniques in our business requires us to incur significant cost and attract qualified technical talent who are in high demand. Our competitors are seeking to develop competing or new technologies, and their success in this space may impact our ability to differentiate our services to our clients through the use of unique technological solutions. In certain cases, we may decide, based on perceived business needs, to make investments that may be greater than we currently anticipate. If we cannot offer new technologies or data and analytic services or solutions as quickly or effectively as our competitors, or if our

competitors develop more cost-effective technologies or analytic tools, it could have a material adverse effect on our ability to obtain and complete client engagements.

Our business may be harmed by any negative developments that may occur in the insurance industry or if we fail to maintain good relationships with insurance carriers.

Many of our businesses are heavily dependent on the insurance industry. Any negative developments that occur in the insurance industry may have a material adverse effect on our business and our results of operations. In addition, if we fail to maintain good relationships with insurance carriers, it may have a material adverse effect on our business and results of operations.

The private health insurance industry in the U.S. has experienced a substantial amount of consolidation over the past several years, resulting in a decrease in the number of insurance carriers. In the future, it may become necessary for us to offer insurance plans from a reduced number of insurance carriers or to derive a greater portion of our revenue from a more concentrated number of carriers as our business and the health insurance industry continue to evolve. The termination, amendment or consolidation of our relationships with our insurance carriers could harm our business, results of operations and financial condition.

Changes and developments in the health insurance system in the United States could harm our business.

In 2010, the Federal government enacted significant reforms to healthcare legislation through Healthcare Reform. Many of our lines of business depend upon the private sector of the U.S. insurance system, its role in financing health care delivery, and insurance carriers' use of, and payment of commissions to, agents, brokers and other organizations to market and sell individual and family health insurance plans. Healthcare Reform contains provisions that have changed and will continue to change the industry in which we operate in substantial ways. Any changes to the roles of the private and public sectors in the health insurance system could also substantially change the industry.

The current administration, and certain key members of Congress, have expressed a desire to replace or amend all or a portion of Healthcare Reform. In addition, various aspects of Healthcare Reform have been challenged in the judicial system with some success. Any partial or complete repeal or amendment, judicial modifications or implementation difficulties, or uncertainty regarding such events, could increase our costs of compliance, prevent or delay future adoption or revisions to our exchange platform, and adversely impact our results of operations and financial condition. In addition, some U.S. political candidates and representatives have otherwise expressed a desire to establish alternatives to employer-sponsored health insurance or replace it with government-sponsored health insurance, often referred to as 'Medicare for All'. Given the uncertainties relating to the potential repeal and replacement of Healthcare Reform or other alternative proposals related to health insurance plans, the impact is difficult to determine, but it could have material negative effects on us, including:

- increasing our competition;
- reducing or eliminating the need for health insurance agents and brokers or demand for the health insurance that we sell;
- decreasing the number of types of health insurance plans that we sell, as well as the number of insurance carriers offering such plans;
- causing insurance carriers to change the benefits and/or premiums for the plans they sell;
- causing insurance carriers to reduce the amount they pay for our services or change our relationship with them in other ways; or
- materially restricting our call center operations.

Any of these effects could materially harm our business and results of operations. For example, the manner in which the Federal government and the states implement health insurance exchanges and the process for receiving subsidies and cost-sharing credits could substantially increase our competition and member turnover and substantially reduce the number of individuals who purchase insurance through us. Various aspects of Healthcare Reform could cause insurance carriers to limit the types of health insurance plans we are able to sell and the geographies in which we are able to sell them. In addition, the U.S. Congress may seek to find spending cuts, and such cuts may include Medicare. If cuts are made to Medicare, there may be substantial changes in the types of health insurance plans we are able to sell, especially through our recently-acquired TRANZACT business, which focuses on direct-to-consumer Medicare policy sales. Changes in the law could also cause insurance carriers to exit the business of selling insurance plans in a particular jurisdiction, to eliminate certain categories of products or to attempt to move members into new plans for which we receive lower commissions. If insurance carriers decide to limit our ability to sell their plans or determine not to sell individual health insurance plans altogether, our business, results of operations and financial condition would be materially harmed.

Limited protection of our intellectual property could harm our business and our ability to compete effectively, and we face the risk that our services or products may infringe upon the intellectual property rights of others.

We cannot guarantee that trade secret, trademark and copyright law protections are adequate to deter misappropriation of our intellectual property (including our software, which may become an increasingly important part of our business). Existing laws of some countries in which we provide services or products may offer only limited protection of our intellectual property rights. Also, we may be unable to detect the unauthorized use of our intellectual property and take the necessary steps to enforce our rights, which may have a material adverse impact on our business, financial condition or results of operations. We cannot be sure that our services and products, or the products of others that we offer to our clients, do not infringe on the intellectual property rights of third parties, and we may have infringement claims asserted against us or our clients. These claims may harm our reputation, result in financial liability, consume financial resources to pursue or defend, and prevent us from offering some services or products. In addition, these claims, whether with or without merit, could be expensive, take significant time and divert management's focus and resources from business operations. Successful challenges against us could require us to modify or discontinue our use of technology or business processes where such use is found to infringe or violate the rights of others, or require us to purchase licenses from third parties, any of which could adversely affect our business, financial condition and operating results.

Financial and Tax Risks

We have material pension liabilities that can fluctuate significantly and adversely affect our financial position or net income or result in other financial impacts.

We have material pension liabilities, some of which represent unfunded and underfunded pension and postretirement liabilities. Movements in the interest rate environment, investment returns, inflation or changes in other assumptions that are used to estimate our benefit obligations and other factors could have a material effect on the level of liabilities in these plans at any given time. Most pension plans have minimum funding requirements that may require material amounts of periodic additional funding and accounting requirements that may result in increased pension expense. For example, in 2018 we were required to recognize a £31 million (\$40 million) pension settlement expense related to the accelerated recognition of certain accumulated losses in one of our U.K. pension schemes following the transfer out of assets of certain plan participants. Depending on the above factors, among others, we could be required to recognize further pension expense in the future. Increased pension expense could adversely affect our earnings or cause earnings volatility. In addition, the need to make additional cash contributions may reduce our financial flexibility and increase liquidity risk by reducing the cash available to meet our other obligations, including the payment obligations under our credit facilities and other long-term debt, or other needs of our business.

Our outstanding debt could adversely affect our cash flows and financial flexibility and we may not be able to obtain financing on favorable terms or at all.

Willis Towers Watson had total consolidated debt outstanding of approximately \$5.6 billion as of December 31, 2019, and our interest expense was \$234 million for the year ended December 31, 2019.

Although management believes that our cash flows will be sufficient to service this debt, there may be circumstances in which required payments of principal and/or interest on this debt could adversely affect our cash flows and this level of indebtedness may:

- require us to dedicate a significant portion of our cash flow from operations to payments on our debt, thereby reducing the availability of cash flow to fund capital expenditures, to pursue other acquisitions or investments, to pay dividends and for general corporate purposes;
- limit our flexibility in planning for, or reacting to, changes or challenges relating to our business and industry; and
- put us at a competitive disadvantage against competitors who have less indebtedness or are in a more favorable position to access additional capital resources.

The terms of our current financings also include certain limitations. For example, the agreements relating to the debt arrangements and credit facilities contain numerous operating and financial covenants, including requirements to maintain minimum ratios of consolidated EBITDA to consolidated cash interest expense and maximum levels of consolidated funded indebtedness in relation to consolidated EBITDA, in each case subject to certain adjustments. The operating restrictions and financial covenants in our credit facilities do, and any future financing agreements may, limit our ability to finance future operations or capital needs or to engage in other business activities.

A failure to comply with the restrictions under our credit facilities and outstanding notes could result in a default or a cross-default under the financing obligations or could require us to obtain waivers from our lenders for failure to comply with these restrictions. The occurrence of a default that is not cured, or the inability to secure a necessary consent or waiver, could cause

our obligations with respect to our debt to be accelerated and have a material adverse effect on our business, financial condition or results of operations.

The maintenance and growth of our business depends on our access to capital, which will depend in large part on cash flow generated by our business and the availability of equity and debt financing. Also, we could be at risk to rising interest rates in the future to the extent that we borrow at floating rates under our existing borrowing agreements or refinance existing debt at higher rates. 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 or at all, which could have a material adverse effect on us.

A downgrade to our corporate credit rating and the credit ratings of our outstanding debt may adversely affect our borrowing costs and financial flexibility and, under certain circumstances, may require us to offer to buy back some of our outstanding debt.

A downgrade in our corporate credit rating or the credit ratings of our debt would increase our borrowing costs including those under our credit facilities and reduce our financial flexibility. If we need to raise capital in the future, any credit rating downgrade could negatively affect our financing costs or access to financing sources.

In addition, under the indenture for our 3.600% senior notes due 2024, our 4.625% senior notes due 2023, our 6.125% senior notes due 2043, our 3.500% senior notes due 2021, our 4.400% senior notes due 2026, our 2.125% senior notes due 2022, our 4.500% senior notes due 2028, our 5.050% senior notes due 2048, our 2.950% senior notes due 2029, and our 3.875% senior notes due 2049, if we experience a ratings decline together with a change of control event, we would be required to offer to purchase these notes from holders unless we had previously redeemed those notes. We may not have sufficient funds available or access to funding to repurchase tendered notes in that event, which could result in a default under the notes. Any future debt that we incur may contain covenants regarding repurchases in the event of a change of control triggering event.

If a U.S. person is treated as owning at least 10% of our shares, such a holder may be subject to adverse U.S. federal income tax consequences.

As a result of U.S. Tax Reform, many of our non-U.S. subsidiaries are now classified as ‘controlled foreign corporations’ (‘CFCs’) for U.S. federal income tax purposes due to the expanded application of certain ownership attribution rules within a multinational corporate group. If a U.S. person is treated as owning (directly, indirectly or constructively) at least 10% of the value or voting power of our shares, such a person may be treated as a U.S. shareholder with respect to one or more of our CFC subsidiaries. In addition, if our shares are treated as owned more than 50% by U.S. shareholders, we would be treated as a CFC. A U.S. shareholder of a CFC may be required to annually report and include in its U.S. taxable income, as ordinary income, its pro-rata share of Subpart F income, global intangible low-taxed income, and investments in U.S. property by CFCs, whether or not we make any distributions to such U.S. shareholder. An individual U.S. shareholder generally would not be allowed certain tax deductions or foreign tax credits that would be allowed to a corporate U.S. shareholder with respect to a CFC. A failure by a U.S. shareholder to comply with its reporting obligations may subject the U.S. shareholder to significant monetary penalties and may extend the statute of limitations with respect to the U.S. shareholder’s U.S. federal income tax return for the year for which such reporting was due. We cannot provide any assurances that we will assist investors in determining whether we or any of our non-U.S. subsidiaries are CFCs or whether any investor is a U.S. shareholder with respect to any such CFCs. We also cannot guarantee that we will furnish to U.S. shareholders any or all of the information that may be necessary for them to comply with the aforementioned obligations. U.S. investors should consult their own advisors regarding the potential application of these rules to their investments in us.

Legislative or regulatory action in the U.S. or abroad could materially adversely affect our ability to maintain a competitive worldwide effective corporate tax rate.

We cannot give any assurance as to what our effective tax rate will be in the future, because of, among other things, uncertainty regarding the tax policies of the jurisdictions where we operate. Our actual effective tax rate may vary from expectations and that variance may be material. Additionally, the tax laws of Ireland and other jurisdictions could change in the future, and such changes could cause a material change in our effective tax rate.

On December 22, 2017, the U.S. government enacted comprehensive tax reform legislation commonly referred to as the Tax Cuts and Jobs Act (the ‘U.S. Tax Reform’), which generally became effective on January 1, 2018. The U.S. Tax Reform included numerous changes to existing tax law, including a permanent reduction in the federal corporate income tax rate from 35% to 21%. Among other things, U.S. Tax Reform could cause us to lose the benefit of certain tax credits and deductions, limit our ability to deduct interest incurred in the U.S. and potentially increase our income taxes due to the base erosion and anti-abuse tax. The U.S. Treasury Department has issued a number of proposed regulations clarifying some of the provisions of the U.S. Tax Reform, many of which are still ongoing. We will continue to evaluate the overall impact of U.S. Tax Reform and related regulations on our operations and tax position over the next twelve months. Our expectations of the impact of U.S. Tax

Reform are also subject to change, possibly materially, due to, among other things, changes in interpretation or assumptions, and/or updated regulatory guidance. The U.S. Tax Reform could have a material adverse effect on our financial results.

Further legislative action may be taken by the U.S. Congress which, if ultimately enacted, could limit the availability of tax benefits or deductions that we currently claim, override tax treaties upon which we rely, or otherwise affect the taxes that the U.S. imposes on our worldwide operations. Regulations or administrative guidance from the U.S. Treasury Department that are currently proposed or newly issued in the future could have similar consequences. Such changes could materially adversely affect our effective tax rate and/or require us to take further action, at potentially significant additional expense, to seek to preserve our effective tax rate. In addition, if proposals were enacted that have the effect of limiting our ability as an Irish company to take advantage of tax treaties with the U.S., we could incur additional tax expense and/or otherwise experience business detriment.

In addition, the U.S. Congress, the Organisation for Economic Co-operation and Development ('OECD'), the World Trade Organization and other government agencies in non-U.S. jurisdictions where we and our affiliates do business have had an extended focus on issues related to the taxation of multinational corporations. One example is in the area of base erosion and profit shifting, where payments are made between affiliates from a jurisdiction with high tax rates to a jurisdiction with lower tax rates. In October 2015, the OECD released final reports addressing fifteen specific actions as part of a comprehensive plan to create an agreed set of international rules for fighting base erosion and profit shifting. Although the timing and methods of implementation vary, several jurisdictions have enacted legislation that is aligned with, and in some cases exceeds the scope of, the OECD's recommendations. As a result, the tax laws in the U.S., Ireland, and other countries in which we and our affiliates do business could change on a prospective or retroactive basis, and any such changes could adversely affect us and our affiliates.

Our significant non-U.S. operations, particularly our London market operations, expose us to exchange rate fluctuations and various other risks that could impact our business.

A significant portion of our operations is conducted outside of the U.S. Accordingly, we are subject to legal, economic and market risks associated with operating in foreign countries, including devaluations and fluctuations in currency exchange rates; imposition of limitations on conversion of foreign currencies into Pounds sterling or U.S. dollars or remittance of dividends and other payments by foreign subsidiaries; hyperinflation in certain foreign countries; imposition or increase of investment and other restrictions by foreign governments; and the requirement of complying with a wide variety of foreign laws. Additionally and as noted above, the unknown impacts of Brexit may expose us to additional exchange rate fluctuations in the Pounds sterling.

We report our operating results and financial condition in U.S. dollars. Our U.S. operations earn revenue and incur expenses primarily in U.S. dollars. In our London market operations however, we earn revenue in a number of different currencies, but expenses are almost entirely incurred in Pounds sterling. Outside of the U.S. and our London market operations, we predominantly generate revenue and expenses in local currencies.

Because of devaluations and fluctuations in currency exchange rates or the imposition of limitations on conversion of foreign currencies into U.S. dollars, we are subject to currency translation exposure on the profits of our operations, in addition to economic exposure. Furthermore, the mismatch between Pounds sterling revenue and expenses, together with any net Pounds sterling balance sheet position we hold in our U.S. dollar-denominated London market operations, creates an exchange exposure. While we do utilize hedging strategies to attempt to reduce the impact of foreign currency fluctuations, there can be no assurance that our hedging strategies will be effective.

Changes in accounting principles or in our accounting estimates and assumptions could negatively affect our financial position and results of operations.

We prepare our financial statements in accordance with U.S. GAAP. Any change to accounting principles, particularly to U.S. GAAP, could have a material adverse effect on us or our results of operations.

U.S. GAAP accounting principles require us to make estimates and assumptions that affect the reported amounts of assets and liabilities, and the disclosure of contingent assets and liabilities at the date of our financial statements. We are also required to make certain judgments that affect the reported amounts of revenue and expenses during each reporting period. We periodically evaluate our estimates and assumptions, including those relating to revenue recognition, valuation of billed and unbilled receivables from clients, discretionary compensation, incurred-but-not-reported liabilities, restructuring, pensions, goodwill and other intangible assets, contingencies, share-based payments and income taxes. We base our estimates on historical experience and various assumptions that we believe to be reasonable based on specific circumstances. Actual results could differ from these estimates, and changes in accounting standards could have an adverse impact on our future financial position and results of operations.

In addition, we have a substantial amount of goodwill on our consolidated balance sheet as a result of acquisitions we have completed, and we significantly increased goodwill as a result of the Merger. We review goodwill for impairment annually or whenever events or circumstances indicate impairment may have occurred. Application of the impairment test requires judgment, including the identification of reporting units, assignment of assets, liabilities and goodwill to reporting units and the determination of the fair value of each reporting unit. A significant deterioration in a key estimate or assumption or a less significant deterioration to a combination of assumptions, or the sale of a part of a reporting unit, could result in an impairment charge in the future, which could have a significant adverse impact on our reported earnings.

Our quarterly revenue and cash flow could fluctuate, including as a result of factors outside of our control, while our expenses may remain relatively fixed or be higher than expected.

Quarterly variations in our revenue, cash flow and results of operations have occurred in the past and could occur as a result of a number of factors, such as: the significance of client engagements commenced and completed during a quarter; seasonality of certain types of services; the number of business days in a quarter; colleague hiring and utilization rates; our clients' ability to terminate engagements without penalty; the size and scope of assignments; our ability to enhance our billing, collection and working capital management efforts and general economic conditions.

We derive significant revenue from commissions for brokerage services, but do not determine the insurance premiums on which our commissions are generally based. Commission levels generally follow the same trend as premium levels, as they are a percentage of the premiums paid by the insureds. Fluctuations in the premiums charged by the insurance carriers can therefore have a direct and potentially material impact on our results of operations. Due to the cyclical nature of the insurance market and the impact of other market conditions on insurance premiums, commission levels may vary widely between accounting periods. A period of low or declining premium rates, generally known as a 'soft' or 'softening' market, generally leads to downward pressure on commission revenue and can have a material adverse impact on our commission revenue and operating margin. We could be negatively impacted by soft market conditions across certain sectors and geographic regions. In addition, insurance carriers may seek to reduce their expenses by reducing the commission rates payable to insurance agents or brokers such as us. The reduction of these commission rates, along with general volatility and/or declines in premiums, may significantly undermine our profitability.

A sizeable portion of our total operating expenses is relatively fixed or may even be higher than expected, encompassing the majority of administrative, occupancy, communications and other expenses, depreciation and amortization, and salaries and employee benefits excluding financial year-end incentive bonuses. Therefore, a variation in the number of client assignments and collection of accounts receivable, or in the timing of the initiation or the completion of client assignments, or our inability to forecast demand, can cause significant variations in quarterly operating results and could result in losses and volatility in our stock price.

It is unclear how increased regulatory oversight and changes in the method for determining the London Interbank Offered Rate ('LIBOR') may affect the value of the financial obligations to be held or issued by us that are linked to LIBOR, or how such changes could affect our results of operations or financial condition.

In the recent past, concerns have been publicized regarding the calculation of LIBOR, the London interbank offered rate, which present risks for the financial instruments that use LIBOR as a reference rate. LIBOR is the basic rate of interest used in lending between banks on the London interbank market and is widely used as a reference for setting the interest rate on loans globally.

Accordingly, uncertainty as to the nature of such changes may affect the market for or pricing of any LIBOR-linked securities, loans, derivatives and other financial obligations or extensions of credit held by or due to us or on our overall financial condition or results of operations. In addition, any further changes or reforms to the determination or supervision of LIBOR may result in a sudden or prolonged increase or decrease in reported LIBOR, which could have an impact on the market for or pricing of any LIBOR-linked securities, loans, derivatives and other financial obligations or extensions of credit held by or due to us, including our revolving credit facility, or on our overall financial condition or results of operations. For example, on July 27, 2017, the United Kingdom's Financial Conduct Authority, which regulates LIBOR, announced that it intends to stop persuading or compelling banks to submit LIBOR rates after 2021. Currently, there is not an agreement on what rate or rates may become accepted alternatives to LIBOR; however, the Alternative Reference Rate Committee in the U.S., comprised of a group of large banks and other financial institutions, selected the Secured Overnight Finance Rate ('SOFR'), as an alternative to LIBOR. In May 2018, the Federal Reserve Bank of New York began to publish the alternative rate. SOFR is a broad measure of the cost of borrowing cash overnight collateralized by Treasury securities. Furthermore, as of April 23, 2018, the Bank of England has commenced publication of a reformed Sterling Overnight Index Average ('SONIA'), comprised of a broader set of overnight Sterling money market transactions. The SONIA has been recommended as the alternative to Sterling LIBOR by the U.K. Working Group on Sterling Risk-Free Reference Rates. At this time, it is not possible to predict whether and how these alternative reference rates will become accepted alternatives to LIBOR or any other reforms to LIBOR that may be enacted.

The laws of Ireland differ from the laws in effect in the United States and may afford less protection to holders of our securities.

It may not be possible to enforce court judgments obtained in the U.S. against us in Ireland, based on the civil liability provisions of the U.S. federal or state securities laws. In addition, there is some uncertainty as to whether the courts of Ireland would recognize or enforce judgments of U.S. courts obtained against us or our directors or officers based on the civil liabilities provisions of the U.S. federal or state securities laws or hear actions against us or those persons based on those laws. We have been advised that the U.S. currently does not have a treaty with Ireland providing for the reciprocal recognition and enforcement of judgments in civil and commercial matters. Therefore, a final judgment for the payment of money rendered by any U.S. federal or state court based on civil liability, whether or not based solely on U.S. federal or state securities laws, would not automatically be enforceable in Ireland.

As an Irish company, we are governed by the Irish Companies Act, which differs in some material respects from laws generally applicable to U.S. corporations and shareholders, including, among others, differences relating to interested director and officer transactions and shareholder lawsuits. Likewise, the duties of directors and officers of an Irish company generally are owed to the company only. Shareholders of Irish companies generally do not have a personal right of action against directors or officers of the company and may exercise such rights of action on behalf of the company only in limited circumstances. Accordingly, holders of our securities may have more difficulty protecting their interests than would holders of securities of a corporation incorporated in a jurisdiction of the United States.

We are a holding company and, therefore, may not be able to receive dividends or other distributions in needed amounts from our subsidiaries.

The Company is organized as a holding company, a legal entity separate and distinct from our operating subsidiaries. As a holding company without 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, for paying dividends to shareholders, for repurchasing shares of common stock and for corporate expenses. Legal and regulatory restrictions, foreign exchange controls, as well as operating requirements of our subsidiaries, may limit our ability to obtain cash from these subsidiaries. For example, Willis Limited, our U.K. brokerage subsidiary regulated by the FCA, is currently required to maintain \$140 million in unencumbered and available financial resources, of which at least \$79 million must be in cash, for regulatory purposes. In the event our operating subsidiaries are unable to pay dividends and other payments to the Company, we may not be able to service debt, pay obligations or pay dividends on, or repurchase shares of, common stock.

In the event we are unable to generate cash from our operating subsidiaries for any of the reasons discussed above, our overall liquidity could deteriorate.

Quantitative and Qualitative Disclosures about Market Risk

Financial Risk Management

We are exposed to market risk from changes in foreign currency exchange rates. In order to manage the risk arising from these exposures, we enter into a variety of foreign currency derivatives. We do not hold financial or derivative instruments for trading purposes.

A discussion of our accounting policies for financial and derivative instruments is included in Notes 2 and 10 to the Consolidated Financial Statements.

Foreign Exchange Risk

Because of the large number of countries and currencies we operate in, movements in currency exchange rates may affect our results.

We report our operating results and financial condition in U.S. dollars. Our U.S. operations earn revenue and incur expenses primarily in U.S. dollars. Outside the U.S., we predominantly generate revenue and expenses in the local currency with the exception of our London market operations which earn revenue in several currencies but incur expenses predominantly in Pounds sterling.

The table below gives an approximate analysis of revenue and expenses by currency in 2019.

	U.S. dollars	Pounds sterling	Euro	Other currencies
Revenue	57%	12%	15%	16%
Expenses ⁽ⁱ⁾	50%	20%	13%	17%

(i) These percentages exclude certain expenses for significant items which will not be settled in cash, or which we believe to be items that are not core to our current or future operations. These items include amortization of intangible assets and transaction and integration expenses.

Our principal exposures to foreign exchange risk arise from:

- our London market operations;
- intercompany lending between subsidiaries; and
- translation.

London market operations

The Company's primary foreign exchange risks in its London market operations arise from changes in the exchange rate between the U.S. dollar and Pound sterling as its London market operations earn the majority of its revenue in U.S. dollars but incur expenses predominantly in Pounds sterling, and may also hold significant foreign currency asset or liability positions on its consolidated balance sheet. In addition, the London market operations earn significant revenue in Euro and Japanese yen.

The foreign exchange risks in our London market operations are hedged to the extent that:

- forecast Pounds sterling expenses exceed Pounds sterling revenue, in which case the Company limits its exposure to this exchange rate risk by the use of forward contracts matched to a portion of the forecast Pounds sterling outflows arising in the ordinary course of business. In addition, we are also exposed to foreign exchange risk on any net Pounds sterling asset or liability position in our London market operations;
- the U.K. operations also earn significant revenue in Euro and Japanese yen. The Company limits its exposure to changes in the exchange rates between the U.S. dollar and these currencies by the use of foreign exchange contracts matched to a proportion of forecast cash inflows in these specific currencies and periods; and
- Miller Insurance Services LLP, which is a Pound sterling functional entity, earns significant non-functional currency revenue, in which case the Company limits its exposure to exchange rate changes by the use of foreign exchange contracts matched to a proportion of forecast cash inflows in specific currencies and periods.

Intercompany lending between subsidiaries

The Company engages in intercompany borrowing and lending between subsidiaries, primarily through our in-house banking operations which give rise to foreign exchange exposures. The Company mitigates these risks through the use of short-term foreign currency forward and swap transactions that offset the underlying exposure created when the borrower and lender have different functional currencies. These derivatives are not generally designated as hedging instruments and at December 31, 2019, we had notional amounts of \$931 million (denominated primarily in U.S. dollars, Pound sterling, Euro and Australian dollars), and had net fair value assets of \$21 million. Maturities are typically within three months.

Translation risk

Outside our U.S. and London market operations, we predominantly earn revenue and incur expenses in the local currency. When we translate the results and net assets of these operations into U.S. dollars for reporting purposes, movements in exchange rates will affect reported results and net assets. For example, if the U.S. dollar strengthens against the Euro, the reported results of our Eurozone operations in U.S. dollar terms will be lower.

The table below provides information about our foreign currency forward exchange contracts, which are sensitive to exchange rate risk. The table summarizes the U.S. dollar equivalent amounts of each currency bought and sold forward and the weighted-average contractual exchange rates. All forward exchange contracts mature within two years.

	Settlement date before December 31,			
	2020		2021	
December 31, 2019	Contract amount (millions)	Average contractual exchange rate	Contract amount (millions)	Average contractual exchange rate
Foreign currency sold				
U.S. dollars sold for Pounds sterling	\$ 243	\$1.33 = £1	\$ 114	\$1.30 = £1
Euros sold for U.S. dollars	72	€1 = \$1.16	30	€1 = \$1.15
Japanese yen sold for U.S. dollars	16	¥105.82 = \$1	7	¥104.94 = \$1
Euros sold for Pounds sterling	12	€1 = £1.12	5	€1 = £1.12
Total	\$ 343		\$ 156	
Fair value ⁽ⁱ⁾	\$ 4		\$ 4	

(i) Represents the difference between the contract amount and the cash flow in U.S. dollars which would have been receivable had the foreign currency forward exchange contracts been entered into on December 31, 2019 at the forward exchange rates prevailing at that date.

Income earned within foreign subsidiaries outside of the U.K. is generally offset by expenses in the same local currency, however the Company does have exposure to foreign exchange movements on the net income of these entities.

Interest Rate Risk

The Company has access to \$1.25 billion under a revolving credit facility expiring March 7, 2022. As of December 31, 2019, no amount was drawn on this facility. We are also subject to market risk from exposure to changes in interest rates based on our investing activities where our primary interest rate risk arises from changes in short-term interest rates in U.S. dollars, Pounds sterling and Euros.

The table below provides information about our financial instruments that are sensitive to changes in interest rates. The Company's previously-held interest rate swap derivatives matured during 2018, and it has not entered into additional interest rate hedging contracts during 2019.

	Expected to mature before December 31,							Fair Value ⁽ⁱ⁾
	2020	2021	2022	2023	2024	Thereafter	Total	
	(\$ in millions)							
Fixed rate debt								
Principal	\$ —	950	\$ 606	\$ 250	\$ 650	\$ 2,825	\$ 5,281	\$ 5,634
Fixed rate payable	—	4.684%	2.125%	4.625%	3.600%	4.348%	4.074%	
Floating rate debt								
Principal	\$ 319	\$ 22	\$ 17	\$ 13	\$ 3	—	\$ 374	\$ 379
Variable rate payable ⁽ⁱⁱ⁾	3.047%	5.450%	5.450%	5.530%	5.600%	—	3.404%	

(i) Represents the net present value of the expected cash flows discounted at current market rates of interest or quoted market rates as appropriate.

(ii) Represents the estimated interest rate payable.

Interest Income on Fiduciary Funds

As a result of our operating activities, we receive cash for premiums and claims which we deposit in short-term investments denominated in U.S. dollars and other currencies. We earn interest on these funds, which is included in our consolidated financial statements as interest income. These funds are regulated in terms of access and the instruments in which they may be invested, most of which are short-term in maturity. At December 31, 2019, we held \$2.0 billion of fiduciary funds invested in interest-bearing accounts. If short-term interest rates increased or decreased by 25 basis points, interest earned on these invested

fiduciary funds, and therefore our interest income recognized, would increase or decrease by approximately \$5 million on an annualized basis.

LIBOR-Related Debt Instruments

In July 2017, the Financial Conduct Authority, the authority that regulates LIBOR, announced its intention to stop compelling banks to submit rates for the calculation of LIBOR after 2021. The Alternative Reference Rates Committee ('ARRC'), a group of private-market participants convened by the Federal Reserve Board and the Federal Reserve Bank of New York to help ensure a successful transition from U.S. dollar LIBOR ('USD-LIBOR') to a more robust reference rate, has proposed that the Secured Overnight Financing Rate ('SOFR') represents the best alternative to USD-LIBOR for use in derivatives and other financial contracts that are currently indexed to USD-LIBOR. ARRC has proposed a transition plan with specific steps and timelines designed to encourage the adoption of SOFR and guide the transition to SOFR from USD-LIBOR. Organizations are currently working on industry-wide and company-specific transition plans related to derivatives and cash markets exposed to USD-LIBOR. Similar efforts are underway to identify suitable replacement reference rates for LIBOR in other major currencies.

As of December 31, 2019, the Company's primary exposure is its \$1.25 billion revolving credit facility maturing in 2022 and its collateralized facility assumed as part of its acquisition of TRANZACT, which are both priced using rates tied to LIBOR. We anticipate renegotiating the revolving credit facility prior to the potential LIBOR quotation termination date and will renegotiate, or repay, the collateralized facility prior to the end of 2021. In addition, the Company and its subsidiaries have entered into various intercompany notes indexed to LIBOR. The Company expects to amend or replace the LIBOR-based intercompany notes as necessary to reflect new market benchmarks for the relevant loan currencies prior to the 2021 deadline.

We are currently evaluating the LIBOR-related risks that may be inherent elsewhere in our business and are monitoring for further proposals and guidance from the ARRC and other alternative-rate initiatives, with the expectation that we will be prepared for the termination and replacement of the LIBOR benchmarks.

Credit Risk and Concentrations of Credit Risk

Credit risk represents the loss that would be recognized at the reporting date if counterparties failed to perform as contracted. The Company currently does not anticipate non-performance by its counterparties. The Company generally does not require collateral or other security to support financial instruments with credit risk.

Concentrations of credit risk that arise from financial instruments exist for groups of customers or counterparties when they have similar economic characteristics that would cause their ability to meet contractual obligations to be similarly affected by changes in economic or other conditions. Financial instruments on the balance sheet that potentially subject the Company to concentrations of credit risk consist primarily of cash and cash equivalents, fiduciary funds, accounts receivable and derivatives which are recorded at fair value.

The Company maintains a policy of providing for the diversification of cash and cash equivalent investments and places such investments in an extensive number of financial institutions to limit the amount of credit risk exposure. These financial institutions are monitored on an ongoing basis for credit quality predominantly using information provided by credit agencies.

Concentrations of credit risk with respect to receivables are 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. Management does not believe that significant risk exists in connection with the Company's concentrations of credit as of December 31, 2019.

Subsidiary Companies

Information regarding principal subsidiary undertakings and undertakings of substantial interest is provided in Note 26 to the Consolidated Financial Statements.

Branches

As of December 31, 2019, Willis Towers Watson had the following branches of European Economic Area ('E.E.A.') entities in other E.E.A. member states: Willis s.r.o. branch in Slovakia; Willis Limited branches in Belgium, France, the Netherlands and Spain; Willis Risk Services (Ireland) Limited branch in the U.K.; Miller Insurance Services LLP branches in Belgium and France; Willis Towers Watson Trade Credit and Surety Limited branch in the U.K.; Towers Watson Limited branch in Germany; Willis Europe B.V. branch in the U.K.; Willis Towers Watson S.A./N.V. branch in the U.K.; Miller Europe S.P.R.L. branches in the U.K. and France.

Political Donations

Neither the Parent Company nor its subsidiaries made any political donations which are required to be disclosed under Irish law for the year ended December 31, 2019 (2018: none).

Non-Financial Statement

Environmental Matters

Our clients, colleagues and other stakeholders expect us to conduct our business with integrity and in an environmentally and socially responsible manner. We take these expectations seriously and have embraced principles that are aligned with our business priorities, are consistent with our commitment to ethical and sustainable practices and demonstrate our respect for those communities in which we operate across the globe. Our Code of Conduct requires us to conduct our business with integrity and in accordance with the applicable laws and regulations of the countries where we do business, including compliance with local environmental-related legislation.

We recognize the importance of our environmental responsibilities and our impact on the environment on a location-by-location basis, and are in the process of designing and implementing processes to reduce damage that might be caused by Willis Towers Watson's activities. This includes baselining our environmental data and developing a new carbon reduction reporting system. This will allow us to track our emissions and carbon footprint across our global operations.

In addition to the development work happening at the global level, the below illustrates some notable activities that are further helping reduce our environmental impact:

- Reduced paper use and increased recycling have been a focus for several years throughout the Company. This has included a focus on reducing print volumes, and therefore paper and equipment usage, by implementing print on-demand technology and scanning capabilities and by offering fewer printers in our office spaces. We have also increased the availability (and use) of online meeting and records management tools that reduce their overall reliance on paper-based materials. This has resulted in our ability to reduce paper consumption while also recycling several million pounds of paper each year.
- We encourage our colleagues to participate in office-based recycling programs and paperless recordkeeping, our offices are planning to replace personal printers with network multi-function devices and procure recycled supplies, and our IT programs are set to ensure proper disposal and recycling of obsolete computer equipment.
- We raise awareness for and provide information about environmental sustainability and corporate social responsibility to our colleagues through internal news stories, communications and a forum.

We support our suppliers', subcontractors' and service providers' commitments to environmental sustainability. We encourage this commitment through increasing our demand for and use of goods that are developed in a sustainable way and contribute to a reduced carbon footprint. Since our direct impact on the environment largely comes from office-based operations, our priority is procuring sustainable choices by negotiating a wide variety of office product options that focus on reducing our carbon footprint. Recycled office supplies, paper, toner, kitchen and pantry products, and cleaning products can be found in the product listings of our main corporate agreements with suppliers who provide such commodities.

Social and Employee Matters and Respect for Human Rights

We are committed to demonstrating to our shareholders and communities that we are a responsible and ethical business partner and good corporate citizen by conducting our business based on our global Code of Conduct, Respect at Work and Anti-Harassment Policy, and our Company values, which emphasize managing our relationships, inside the Company and out, with fairness, decency and good citizenship. Our policy is that adherence is compulsory and enforced, with reported violations investigated promptly, and demonstration of values formally assessed during annual performance reviews and incorporated into a colleague's overall performance rating. Colleagues may raise concerns anonymously or confidentially through our Code of Conduct Hotline, online or by phone. As discussed further below, mandatory training on our Code of Conduct is delivered to all colleagues annually and completion rates are monitored.

We partner with our clients and communities to help address their social and economic challenges. For example, we participate in the Insurance Development Forum, a public/private partnership led by the insurance industry and international organizations (such as the United Nations and the World Bank) that aims to optimize and extend the use of insurance and its related risk management capabilities to build greater resilience and protection for people, communities, businesses and public institutions that are vulnerable to disasters and their associated economic shocks.

Additionally, as a professional services company, we endeavor to enable our colleagues to reach their full potential by fostering a culture of mutual respect, an inclusive and diverse work environment, professional development opportunities, safe working

conditions and fair hiring and labor standards. Each year, our leaders cascade diversity and inclusion-focused objectives throughout the organization, and we continue to look for ways to provide for an objective and fair process that mitigates human biases in our talent programs and processes. Highlights of our inclusion and diversity activities include the following:

- *Globally:* Our business-led Inclusion and Diversity Council leads geographically-based councils to help align regional inclusion and diversity objectives with Company priorities, including how we attract, hire, develop, promote and retain diverse talent and foster an inclusive environment. Additionally, the Multicultural Inclusion Network and Talent Acquisition teams partner with the International Association of Black Actuaries and other organizations to source diverse talent. We have also implemented Unconscious Bias and Inclusive Leadership workshops in the U.S. and the U.K. and have launched an online, interactive unconscious bias module available across the globe to leadership teams and colleagues. For several years running, Willis Towers Watson was a gold sponsor of the Dive In festival for inclusion and diversity in insurance, holding events across the Company globally.
- *In North America and the U.K.:* We launched a comprehensive set of actions to address and ameliorate gender imbalance in leadership levels, with an integrated, business-sponsored approach targeted at hiring, developing, retaining and promoting senior women.
- *In the U.S.:* Talent Management magazine acknowledged our Developing Inclusive Behaviors learning framework for being “exceptional” and a “best practice” and we have been recognized by the Human Rights Campaign Foundation as a “Best Place to Work” for LGBT+ equality. In certain cities, we have also launched a pilot program that seeks to increase representation of Black, African American and Latinx talent. Leadership teams and Multicultural Inclusion Network representatives will support a collection of focused efforts to attract, hire, develop, promote and retain colleagues, in partnership with select external organizations.
- *In the U.K.:* Willis Towers Watson is a member of Stonewall’s Diversity Champions program, an employers’ forum for sexual orientation and gender identity equality.

We help strengthen our communities through charitable giving and volunteering by offering:

- Matching Gifts Program that matches our colleagues’ contributions to charitable organizations focused on healthcare, inclusion and diversity, post-secondary education and disaster relief;
- Volunteer Day Program that provides our colleagues with paid opportunities to volunteer their time and talents to improve our communities; and
- a global charitable giving policy that benefits the Company by providing consistent new Company-wide governance and expenditure recording for all business and office charitable expenditures in this area.

While we believe the nature of our business as a professional services provider to predominantly corporate clients means that we are not directly exposed to a high risk of modern slavery and human trafficking, we are nonetheless aware that the possibility does exist within our global supply chains. We do not have a formal global human rights policy; however our approach to modern slavery reflects our overall approach to human rights. Seven of our U.K. subsidiaries (including Willis Limited and Towers Watson Limited) have produced Modern Slavery Act Transparency Statements, most recently for the financial year ending 31 December 2018. These U.K. entities work with other Willis Towers Watson entities to combat modern slavery and human trafficking in the business structure and have a cross-functional modern slavery working group that continues to coordinate a Company-wide approach to the matter. As part of Willis Towers Watson, these U.K. entities are committed to maintaining and improving practices to combat the human rights violations of slavery and human trafficking. The U.K. Modern Slavery Working Group has continued investigations into our supply chain to advance a standardized approach to assessing the risk of modern slavery and human trafficking.

To ensure a high level understanding of the risks of modern slavery and human trafficking amongst those of our colleagues engaged in our large enterprise-wide supplier arrangements, we have started to introduce training across key departments so that relevant employees are aware of the risks and what warning signs they should look for. We continue to standardize Company-wide modern slavery and human trafficking requirements for our large enterprise-wide supplier arrangements to provide for a coordinated approach moving forward.

Anti-Bribery and Anti-Corruption

The Company is subject to global anti-bribery and anti-corruption policies and procedures, which apply to all employees in entities owned and/or controlled by Willis Towers Watson, suppliers to Willis Towers Watson and third parties performing services on behalf of Willis Towers Watson (unless the suppliers or third parties have comparable anti-bribery and anti-corruption policies of their own).

The Anti-Bribery & Corruption Policy states that Willis Towers Watson is committed to conducting business with honesty, integrity and fairness and without the use of bribery and corrupt practices, and prohibits the offering, promising, giving, requesting, agreeing to receive or accepting of any bribes or other illegal or corrupt payments or inducements to or from any person at any time, anywhere in the world.

Bribery and corruption risks include those through third parties and gifts, entertainment and hospitality. The Company mitigates these risks through global procedures which apply to all employees in entities owned and/or controlled by Willis Towers Watson. The Company's Anti-Bribery & Corruption - Gifts, Entertainment & Hospitality Procedures require approval of gifts, entertainment and hospitality (whether given or received by Willis Towers Watson) that meet bribery risk criteria explained in the procedures. In general, the Anti-Bribery & Corruption - Third Party Approval Procedures require due diligence be conducted on, and approval be obtained for, all third parties performing specified services on behalf of Willis Towers Watson. For all but the very lowest risk third parties, the approval procedures must be refreshed and repeated annually. Very low risk third parties require re-approval under the procedures every two years.

The policies, procedures and supporting forms and information are available on the Company's intranet site and are translated into 26 languages to support their global application and understanding.

Online training is delivered annually in these languages on a risk-based approach to Willis Towers Watson employees regarding Anti-Bribery & Corruption; Gifts Entertainment & Hospitality; and Third Party Bribery Risk, including a comprehension test on the module content.

All employees of Willis Towers Watson are also required to comply with the Code of Conduct, which sets out the Company's expectations regarding anti-bribery and anti-corruption matters. All employees are required annually to complete Code of Conduct training (provided in multiple languages) and to complete a comprehension test on the module content and certify their understanding and compliance with the Code of Conduct.

Risk Factors

The principal risks related to the Company's business are described in the 'Principal Risks and Uncertainties' section above.

Business Model

The Company's business model is described in the 'Executive Overview - Business Overview' and 'Business Strategy' sections above.

Accounting Records

To ensure that adequate accounting records are kept in accordance with Sections 281 to 285 of the Companies Act 2014 the Directors have employed appropriately qualified accounting personnel and have maintained appropriate computerized accounting systems. The accounting records are held at the Company's registered office at Elm Park, Merrion Road, Dublin 4, Ireland.

Directors and Secretary

The Directors of the Company at December 31, 2019 and at the date of this Directors' Report are John J. Haley, Anna C. Catalano, Victor F. Ganzi, Wendy E. Lane, Brendan R. O'Neill, Jaymin B. Patel, Linda D. Rabbitt, Paul D. Thomas and Wilhelm Zeller and the Secretary of the Company is Nicole Napolitano. James F. McCann retired from the Board on May 20, 2019. There were no other changes in Directors during the year, or after year-end.

Directors' and Secretary's Interests

None of the Directors, nor the Company Secretary, in office at December 31, 2019 had an interest in 1 percent or over of the share capital of the ultimate parent company at January 1, 2019 or December 31, 2019.

There have been no contracts or arrangements entered into during the financial period in which a Director of the Company had a material interest in and which were significant in relation to Willis Towers Watson's business.

Directors' Responsibilities Statement in relation to the Financial Statements

The Directors are responsible for preparing the Directors' Report and the financial statements in accordance with the Companies Act 2014.

Irish company law requires the Directors to prepare financial statements for each financial year. Under Irish company law, the Directors have elected to prepare the Company financial statements in accordance with U.S. GAAP, as defined in Section 279 of the Companies Act 2014, to the extent that the use of those principles in the preparation of the Company financial statements does not contravene any provision of Part 6 of the Companies Act 2014, and to prepare the Parent Company financial statements in accordance with IFRSs as adopted by the European Union ('relevant financial reporting framework').

Under Irish company law, the Directors must not approve the financial statements unless they are satisfied that they give a true and fair view of the assets, liabilities and financial position of the Company and the Parent Company at the financial year end date and of the profit or loss of the Company for the financial year and otherwise comply with the Companies Act 2014. In preparing the financial statements, the Directors are required to:

- select suitable accounting policies for the Company and Parent Company financial statements and then apply them consistently;
- make judgments and estimates that are reasonable and prudent;
- state whether the financial statements have been prepared in accordance with applicable accounting standards, identify those standards, and note the effect and reasons for any material departures from those standards; and
- prepare the financial statements on the going concern basis unless it is inappropriate to presume that the Parent Company and the Company will continue in business.

The Directors are responsible for ensuring that the Company keeps, or causes to be kept, adequate accounting records which correctly explain and record the transactions of the Company, enable at any time the assets, liabilities, financial position and profit or loss of the Company to be determined with reasonable accuracy and enable them to ensure that the financial statements and Directors' Report comply with the Companies Act 2014 and enable the financial statements to be audited. They are also responsible for safeguarding the assets of the Company and hence for taking reasonable steps for the prevention and detection of fraud and other irregularities.

The Directors are responsible for the maintenance and integrity of the corporate and financial information included on the Company's website. Legislation in Ireland governing the preparation and dissemination of financial statements may differ from legislation in other jurisdictions.

Directors' Compliance Statement

As required by section 225(2) of the Companies Act 2014, the Directors acknowledge that they are responsible for securing the Company's compliance with its relevant obligations (as defined in section 225(1)). The Directors further confirm that a "compliance policy statement" (as defined in section 225(3)(a)) has been drawn up, that appropriate arrangements and structures that are, in the Directors' opinion, designed to secure material compliance with the relevant obligations have been put in place and that a review of those arrangements and structures has been conducted in the financial year to which this report relates.

Relevant Audit Information

Each of the persons who is a Director at the date of approval of this report confirms that:

- so far as the Director is aware, there is no relevant audit information of which the Company's statutory auditor is unaware; and
- the Director has taken all the steps that they ought to have taken as a Director in order to make themselves aware of any relevant audit information and to establish that the Company's statutory auditor is aware of that information.

This confirmation is given and should be interpreted in accordance with the provisions of Section 330 of the Companies Act 2014.

Audit Committee

The Company has established an Audit Committee which is in conformity with the provisions of Section 167 of the Companies Act 2014, with responsibilities including:

- the monitoring of the financial reporting process;
- the monitoring of the effectiveness of the Company's systems of internal control, internal audit and risk management;
- the monitoring of the statutory audit of the Company's statutory financial statements; and
- the review and monitoring of the independence of the statutory auditor and the provision of additional services to the Company.

Auditor

A resolution relating to the appointment of Deloitte Ireland LLP, Independent Statutory Audit Firm, to audit Willis Towers Watson's Irish Statutory Accounts will be proposed at the 2020 Annual General Meeting of Shareholders. Deloitte LLP, Statutory Audit Firm, the U.K. member firm of the Deloitte Touche Tohmatsu Limited network, currently audits the Irish Statutory Accounts of Willis Towers Watson. However, as a result of the U.K.'s exit from the European Union, regulations are expected to preclude Deloitte LLP, as a U.K. firm, from completing audits of Irish financial statements beyond 2020. Therefore, the Board has selected Deloitte Ireland LLP to audit the Company's Irish Statutory Accounts.

On behalf of the Directors

/s/ Anna C. Catalano
Director

/s/ Brendan R. O'Neill
Director

Date: April 17, 2020

Date: April 17, 2020

Elm Park
Merrion Road
Dublin 4, Ireland

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INDEPENDENT AUDITOR'S REPORT TO THE MEMBERS OF WILLIS TOWERS WATSON PUBLIC LIMITED COMPANY

Report on the audit of the consolidated financial statements

Opinion

In our opinion, the consolidated financial statements of Willis Towers Watson Public Limited Company ('the Group'):

- give a true and fair view of the assets, liabilities and financial position of the Group as at December 31, 2019 and of its profit for the financial year then ended; and
- have been properly prepared in accordance with the relevant financial reporting framework and, in particular, with the requirements of the Companies Act 2014.

The Group financial statements we have audited comprise:

- the Consolidated Profit and Loss Account;
- the Consolidated Statement of Total Comprehensive Income;
- the Consolidated Balance Sheet;
- the Consolidated Statement of Cash Flows;
- the Consolidated Statement of Changes in Equity; and
- the related notes 1 to 24 and notes 26 to 27, including a summary of significant accounting policies as set out in Note 2.

The relevant financial reporting framework that has been applied in the preparation of the consolidated financial statements comprises the Companies Act 2014 and the U.S. accounting standards as defined in Section 279 of the Companies Act 2014 ('U.S. GAAP') to the extent that the use of those principles in preparation of the consolidated financial statements does not contravene any provision of Part 6 of the Companies Act 2014 ('relevant financial reporting framework').

Basis for opinion

We conducted our audit in accordance with International Standards on Auditing (Ireland) ('ISAs (Ireland)') and applicable law. Our responsibilities under those standards are further described in the 'Auditor's responsibilities for the audit of the financial statements' section of our report.

We are independent of the Group in accordance with the ethical requirements that are relevant to our audit of the financial statements in Ireland, including the Ethical Standard issued by The Irish Auditing and Accounting Supervisory Authority ('IAASA'), as applied to listed entities, and we have fulfilled our other ethical responsibilities in accordance with these requirements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

Conclusions relating to going concern

We are required by ISAs (Ireland) to report in respect of the following matters where:

- the directors' use of the going concern basis of accounting in the preparation of the financial statements is not appropriate: or
- the directors have not disclosed in the financial statements any identified material uncertainties that may cast significant doubt about the Group's ability to continue to adopt the going concern basis of accounting for a period of at least twelve months from the date when the financial statements are authorized for issue.

We have nothing to report in respect of these matters.

Key audit matters

Key audit matters are those matters that, in our professional judgement, were of most significance in our audit of the financial statements of the current financial year and include the most significant assessed risks of material misstatement (whether or not due to fraud) we identified, including those which had the greatest effect on: the overall audit strategy, the allocation of resources in the audit; and directing the efforts of the engagement team. These matters were addressed in the context of our audit of the financial statements as a whole, and in forming our opinion thereon, and we do not provide a separate opinion on these matters.

In the previous year, we also identified a key audit matter when the Group adopted ASC 606, *Revenue from Contracts with Customers* ('the Standard') as of January 1, 2018, using the modified retrospective method, which had a material impact on the consolidated financial statements and the accompanying notes.

Our audit procedures relating to the above key audit matters were designed in the context of our audit of the financial statements as a whole, and not to express an opinion on individual accounts or disclosures. Our opinion on the financial statements is not modified with respect to any of the key audit matters described above, and we do not express an opinion on these individual matters.

Valuation and allocation of Errors and Omissions Provisions	
Key audit matter description	<p>The Group has established provisions against various actual and potential claims, lawsuits and other proceedings relating principally to alleged errors & omissions ('E&O') which arise in connection with the placement of insurance and reinsurance and provision of broking, consulting and outsourcing services in the ordinary course of business. Such provisions cover claims that have been reported but not paid and also claims that have been incurred but not reported ('IBNR'). These provisions are established based on actuarial estimates together with individual case reviews. Significant management judgment is required to estimate the amounts of such claims.</p> <p>Auditing management's judgments relating to its E&O provision, and in particular the broking, consulting and outsourcing business provision related to the IBNR and the broking business provision related to significant claims reported but not paid, involved especially complex and subjective judgment and an increased extent of effort, including the need to involve our actuarial specialists.</p> <p>For the Errors and Omissions reserve, refer to Notes 2, 14 and 16 to the financial statements.</p>
How the scope of our audit responded to the key audit matter	<p>We tested the effectiveness of controls over the Group's estimation of the E&O provision including controls over the underlying historical claims data, the actuarial methodology used, the assumptions selected by management that are used to calculate the broking, consulting and outsourcing business IBNR provisions, and the establishment and quarterly evaluation of provisions for reported claims, including significant claims for the broking business.</p> <p>For the IBNR provisions, we evaluated the appropriateness of the IBNR models, including evaluating changes needed or warranted given changes in the business, and evaluated the consistency of the model with prior years in order to challenge the methodology used to estimate the provisions. With the assistance of our actuarial specialists, we assessed the methodology and models used, including key inputs and assumptions used in, and arithmetical accuracy of, the models used. We also performed retrospective reviews of management's estimated claims emergence in comparison to actual results and evaluated the provisions set by management in comparison to a range of independent estimates that we developed.</p> <p>We evaluated the E&O matters and the appropriateness of their projected settlement values through inquiries of, and confirmations from, external lawyers handling those matters for the Group.</p>
Key observations	<p>We performed the planned procedures without noting any material issues.</p>

Valuation and allocation of acquisition of TRANZACT

Key audit matter description	<p>On July 30, 2019, the Group acquired TRANZACT for consideration of \$1.3 billion. The purchase price was allocated to the identifiable assets acquired and liabilities assumed based on their respective fair values, including a customer relationship intangible asset of \$612 million and renewal commissions receivables of \$166 million.</p> <p>Management estimated the fair value of the customer relationship intangible asset using a generally accepted valuation method appropriate for this type of intangible asset. Management estimated the fair value of the renewal commissions receivables at the acquisition date by applying a present-value adjustment to the carrying value of the receivables, which were originally determined using an actuarial model to account for variable consideration uncertainties. The Group will account for the renewal commissions receivables prospectively using the cost-recovery method. Significant management judgment is required in making estimates and assumptions in the fair value determination of the customer relationship intangible asset and renewal commissions receivables and the selection of the accounting method for subsequent measurement of the renewal commissions receivables after the acquisition date.</p> <p>We identified the valuations of the customer relationship intangible asset and renewal commissions receivables related to the acquisition of TRANZACT as a key audit matter because of the significant estimates management made to determine their relative fair values. This required a high degree of auditor judgment and an increased extent of effort, including the need to involve our fair value and actuarial specialists, when performing audit procedures to evaluate the reasonableness of management’s assumptions related to future cash flows, discount rates, attrition rates and lapse rates.</p> <p>In addition, the selection of the cost-recovery method for measurement of the acquired renewal commissions receivables after acquisition is a key audit matter because it required management to exercise significant judgment given the lack of prescriptive guidance for subsequent accounting for such assets under U.S. GAAP. This required a high degree of auditor judgment and an increased extent of effort, including the need to involve professionals in our firm with expertise in business combination accounting to evaluate the reasonableness of the use of the cost-recovery method.</p> <p>For the TRANZACT acquisition, refer to Notes 2, 3 and 7 to the financial statements.</p>
How the scope of our audit responded to the key audit matter	<p>We tested the effectiveness of controls over valuation, including management’s controls over forecasts of future cash flows, selection of the discount rate, and selection of key assumptions supporting management’s estimates (i.e., attrition rates and lapse rates).</p> <p>We assessed the reasonableness of management’s forecasts of future cash flows used in the customer relationship intangible asset model by utilizing the historical results and certain peer company data. We evaluated whether said estimated future cash flows were consistent with evidence obtained in other areas of the audit.</p> <p>With the assistance of our fair value specialists, we evaluated the reasonableness of the discount rate used in the customer relationship intangible asset model by testing the source information underlying the determination of the discount rate; testing the mathematical accuracy of the calculation of the discount rate; and developing a range of independent estimates and comparing those to the discount rate selected by management.</p> <p>With the assistance of our fair value specialists, we evaluated the reasonableness of the attrition rate used in the customer relationship intangible asset model by evaluating the attrition rate methodology; testing the mathematical accuracy of the attrition rate assumption; and testing the completeness and accuracy of the underlying data supporting the attrition rate assumption by testing a selection of the insurance carriers and products and evaluating the appropriateness of the revenue attrition calculation for each insurance carrier and product.</p> <p>With the assistance of our actuarial specialists, we evaluated the reasonableness of the lapse rates used in the renewal commissions receivables model by evaluating the lapse rate methodology; testing the mathematical accuracy of each lapse rate assumption; and evaluating the rationale for experience adjustments made in developing the lapse rate assumptions.</p> <p>With the assistance of professionals in our firm with expertise in business combination accounting, we evaluated the Group’s conclusion regarding the use of the cost recovery method.</p>
Key observations	<p>We performed the planned procedures without noting any material issues.</p>

COVID-19 subsequent event

Key audit matter description	<p>As disclosed in Note 2 and Note 27, subsequent to the balance sheet date a global pandemic of a new strain of Coronavirus ('COVID19', 'the virus') has emerged.</p> <p>The virus, and responses taken by organizations and governments to manage its spread in markets to which the company is exposed, have led to increased volatility and economic disruption. The Directors judge the matter to be a non-adjusting event in accordance with accounting standards, since it is indicative of conditions that arose after the reporting period. It is therefore not reflected in the measurement of assets and liabilities at the balance sheet date.</p> <p>In light of the potential future disruption to business operations and those of the Group's clients, suppliers and other third parties with whom the Group interacts, the Directors considered it was appropriate to perform additional procedures and analysis, specific to COVID-19, to consider whether these events and uncertainties cast significant doubt upon the Group's ability to continue as a going concern. This analysis considered business resilience and continuity plans, financial modeling and stress testing of liquidity and financial resources. Specifically, the analysis separated the Company's revenue mix into contracts and projects with high client discretion versus contracts and projects that are recurring in nature and less susceptible to economic factors, which averages to 20 percent discretionary and 80 percent non-discretionary. The analysis modeled the financial impact assuming an increasing severity of global economic impact in relation to GDP, and consequently revenue, across the countries in which the Company operates for an 18-month period so that the potential impact on profitability and liquidity could be assessed.</p> <p>Having considered this analysis, the Directors have concluded that there are no conditions or events, considered in the aggregate, including those related to the COVID-19 pandemic, that raise substantial doubt about the Group's ability to continue as a going concern for a period of not less than one year after the date of approval of these financial statements.</p> <p>Auditing the analysis involved subjective judgment and an increased extent of effort, including the need to make additional inquiries of operational management.</p> <p>The Group has made disclosures to reflect the results of its assessment in the Directors' Report, Note 2 to the Group financial statements – Basis of Presentation, Significant Accounting Policies and Recent Accounting Pronouncements and Note 27 to the Group financial statements - Subsequent Events.</p>
How the scope of our audit responded to the key audit matter	<p>We evaluated the Directors' approach to assessing the impact of COVID-19 on the Group and its financial statement disclosures by performing the following procedures:</p> <ul style="list-style-type: none">• Evaluated management's stress and scenario testing and challenged management's key assumptions, focusing on the impact of the most significant GDP reductions modeled by management, assessing the consistency with other available information and our understanding of the business;• Evaluated management's assessment of the risks facing the Group including liquidity risk, and operational matters;• Made inquiries of senior management in relation to their assessment of the impacts of COVID-19 on the Group, including inquiries of operational management in relation to business resilience;• Inspected correspondence between the Group and its regulators related to the Group's responses to the emergence of COVID-19; and• Assessed the disclosures in the financial statements against applicable accounting standards, assessed the Directors' conclusion in respect of the going concern basis, the judgement that COVID-19 is a non-adjusting subsequent event and evaluated the consistency of the disclosures with our knowledge of the Group.
Key observations	<p>We agree with the Directors' conclusion in respect of the going concern basis and their judgement that COVID-19 is a non-adjusting subsequent event and we consider the disclosure of the potential impact of COVID-19 in the financial statements to be appropriate.</p>

Our application of materiality

We define materiality as the magnitude of misstatement that makes it probable that the economic decisions of a reasonably knowledgeable person, relying on the financial statements, would be changed or influenced. We use materiality both in planning the scope of our audit work and in evaluating the results of our work. Based on our professional judgement, we determined materiality for the financial statements as a whole as follows:

Group materiality	\$90 million (2018: \$85 million)
Basis for determining materiality	We determined the materiality using adjusted profit before tax ('PBT') as a primary benchmark, with profit before tax, adjusted earnings before interest, taxes, depreciation and amortization ('EBITDA') and revenue as supporting benchmarks. Based on the results of our analysis, we determined and selected the materiality level of \$90 million for the consolidated financial statements.
Rationale for the benchmark applied	The attention of the users of the Group's financial statements is primarily focused on adjusted PBT. This is due to shareholders being interested in what can be reinvested in the business or the potential for dividends to be paid. Adjusted PBT is also used as a benchmark for valuing a company.

We agreed with the Audit Committee that we would report to them any audit differences in excess of \$4.5 million (2018: \$4.2 million), as well as differences below that threshold which, in our view, warranted reporting on qualitative grounds. We also report to the Audit Committee on disclosure matters that we identified when assessing the overall presentation of the financial statements.

An overview of the scope of our audit

The scope of our audit was determined by obtaining an understanding of the Group and its environment, including group-wide controls and assessing the risk of material misstatement.

Our Group audit scope focused primarily in two locations (U.S. and U.K.) with three components subject to full scope audits. In addition, our component teams performed audits of specified account balances and classes of transactions for ten components to support our opinion on the consolidated financial statements.

In-scope components as described above account for approximately 87% of the Group's total assets and approximately 82% of the Group's total revenue as of December 31, 2019.

The components were selected to provide an appropriate basis of undertaking audit work to address the risks of material misstatements including those identified above. Our audits of each of the components was performed using materiality lower than the Group materiality based on their size relative to the Group and ranged from \$20.3 million to \$43.9 million.

The Group engagement team activities comprised audit work in areas such as the consolidation, review of the overall financial statements and disclosures, taxes, overall IT controls work and other areas such as discretionary compensation awards. The component teams carried out work in relation to the transactions and balances of the underlying businesses. The Group engagement team had oversight of the work performed by the component teams, reviewed their work and discussed any issues throughout the year.

Other information

The directors are responsible for the other information. The other information comprises the information included in the annual report, other than the financial statements and our auditor's report thereon. Our opinion on the financial statements does not cover the other information and, except to the extent otherwise explicitly stated in our report, we do not express any form of assurance conclusion thereon.

In connection with our audit of the financial statements, our responsibility is to read the other information and, in doing so, consider whether the other information is materially inconsistent with the financial statements or our knowledge obtained in the audit or otherwise appears to be materially misstated. If we identify such material inconsistencies or apparent material misstatements, we are required to determine whether there is a material misstatement in the financial statements or a material misstatement of the other information. If, based on the work we have performed, we conclude that there is a material misstatement of this other information, we are required to report that fact.

We have nothing to report in respect of these matters.

Responsibilities of directors

As explained more fully in the directors' responsibilities statement set out on page 58, the directors are responsible for the preparation of the financial statements and for being satisfied that they give a true and fair view and otherwise comply with the Companies Act 2014, and for such internal control as the directors determine is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, the directors are responsible for assessing the Group's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless the directors either intend to liquidate the Group or to cease operations, or has no realistic alternative but to do so.

Auditor's responsibilities for the audit of the financial statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with ISAs (Ireland) will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users made on the basis of these financial statements.

A further description of our responsibilities for the audit of the financial statements is located on the IAASA's website at: <http://www.iaasa.ie/getmedia/b2389013-1cf6-458b-9b8f-a98202dc9c3a/Descriptionofauditorsresponsibilitiesforaudit.pdf>. This description forms part of our auditor's report.

Report on other legal and regulatory requirements

Opinions on other matters prescribed by the Companies Act 2014

Based solely on the work undertaken in the course of the audit, we report that:

- We have obtained all the information and explanations which we consider necessary for the purposes of our audit.
- In our opinion, the accounting records of the Group were sufficient to permit the financial statements to be readily and properly audited and the Group statement of its financial position in agreement with the accounting records.
- In our opinion, the information given in those parts of the directors' report as specified for our review is consistent with the financial statements and has been prepared in accordance with the Companies Act 2014.

Matters on which we are required to report by exception

Based on the knowledge and understanding of the Group and its environment obtained in the course of the audit, we have not identified material misstatements in those parts of the directors' report that have been specified for our review.

The Companies Act 2014 also requires us to report to you if, in our opinion, the Group has not provided the information required by Regulation 5(2) to 5(7) of the European Union (Disclosure of Non-Financial and Diversity Information by certain large undertakings and groups) Regulations 2017 (as amended) for the financial year ended December 31, 2019. We have nothing to report in this regard.

We have nothing to report in respect of the provisions in the Companies Act 2014 which require us to report to you if, in our opinion, the disclosures of directors' remuneration and transactions required by Sections 305 to 312 of the Companies Act 2014 are not made.

Other matter

We have reported separately on the Parent Company financial statements of Willis Towers Watson Public Limited Company for the financial year ended December 31, 2019.

Use of our report

Our report is made solely to the Company's members, as a body, in accordance with Section 391 of the Companies Act 2014. Our audit work has been undertaken so that we might state to the Company's members those matters we are required to state to them in an auditor's report and for no other purpose. To the fullest extent permitted by law, we do not accept or assume responsibility to anyone other than the Company and the Company's members, as a body, for our audit work, for this report, or for the opinions we have formed.

Andrew Downes
For and on behalf of Deloitte LLP
Statutory Audit Firm
London, United Kingdom

17 April 2020

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CONSOLIDATED PROFIT AND LOSS ACCOUNT

	Note	Years ended December 31,		
		2019	2018	2017
		(millions, except per share data)		
REVENUE	4	\$ 9,039	\$ 8,513	\$ 8,202
EXPENSES				
Salaries and benefits	18	5,249	5,123	4,967
Other operating expenses		1,719	1,637	1,534
Depreciation	9	240	208	203
Amortization	8	489	534	581
Restructuring costs	6	—	—	132
Transaction and integration expenses		13	202	269
Total expenses		7,710	7,704	7,686
OPERATING INCOME		1,329	809	516
Other income, net	20	227	250	164
Interest expense	11	(234)	(208)	(188)
INCOME FROM OPERATIONS BEFORE INCOME TAXES		1,322	851	492
(Provision for)/benefit from income taxes	7	(249)	(136)	100
NET INCOME		1,073	715	592
Less: net income attributable to non-controlling interests		(29)	(20)	(24)
NET INCOME ATTRIBUTABLE TO WILLIS TOWERS WATSON		\$ 1,044	\$ 695	\$ 568
EARNINGS PER SHARE	23			
Basic earnings per share		\$ 8.05	\$ 5.29	\$ 4.21
Diluted earnings per share		\$ 8.02	\$ 5.27	\$ 4.18

The accompanying notes are an integral part of these Consolidated Financial Statements.

CONSOLIDATED STATEMENT OF TOTAL COMPREHENSIVE INCOME

	Note	Years ended December 31,		
		2019	2018	2017
		(millions)		
NET INCOME		\$ 1,073	\$ 715	\$ 592
Other comprehensive (loss)/income, net of tax:				
Foreign currency translation	21	\$ 78	\$ (251)	295
Defined pension and post-retirement benefits	21	(329)	(199)	14
Derivative instruments	21	21	2	75
Other comprehensive (loss)/income, net of tax, before non-controlling interests		(230)	(448)	384
Comprehensive income before non-controlling interests		843	267	976
Comprehensive income attributable to non-controlling interests		(29)	(20)	(37)
Comprehensive income attributable to Willis Towers Watson		\$ 814	\$ 247	\$ 939

The accompanying notes are an integral part of these Consolidated Financial Statements.

CONSOLIDATED BALANCE SHEET

	Note	December 31,	
		2019	2018
(millions, except share data)			
ASSETS			
NON-CURRENT ASSETS			
Intangible assets			
Goodwill	8	\$ 11,194	\$ 10,465
Other intangible assets, net	8	3,478	3,318
Tangible assets			
Right-of-use assets	15	968	—
Fixed assets, net	9	1,046	942
Financial assets			
Investments in associates		26	23
Pension benefits assets	13	868	773
Deferred tax assets	7	72	59
Other non-current assets	17	737	385
Total fixed assets		18,389	15,965
CURRENT ASSETS			
Accounts receivable, net	4	2,621	2,379
Fiduciary assets		13,004	12,604
Other current assets	17	525	404
Cash and cash equivalents		887	1,033
Total current assets		17,037	16,420
TOTAL ASSETS		\$ 35,426	\$ 32,385
LIABILITIES, CAPITAL AND RESERVES			
CREDITORS: AMOUNTS FALLING DUE WITHIN ONE YEAR			
Current debt	11	\$ 316	\$ 186
Fiduciary liabilities		13,004	12,604
Current lease liabilities	15	164	—
Deferred revenue	17	538	448
Accrued expenses	17	1,246	1,199
Income taxes payable	7	85	81
Other current liabilities	17	717	783
Total creditors: amounts falling due within one year		16,070	15,301
CREDITORS: AMOUNTS FALLING DUE AFTER MORE THAN ONE YEAR			
Long-term debt	11	5,301	4,389
Retirement benefit obligations	13	1,324	1,170
Long-term lease liabilities	15	964	—
Deferred tax liabilities	7	526	559
Other non-current liabilities	17	335	429
Total creditors: amounts falling due after more than one year		8,450	6,547
PROVISIONS FOR LIABILITIES	14	537	540
Total liabilities		25,057	22,388

(Continued on next page)

CONSOLIDATED BALANCE SHEET (continued)

	Note	December 31,	
		2019	2018
(millions, except share data)			
COMMITMENTS AND CONTINGENCIES	16		
REDEEMABLE NON-CONTROLLING INTEREST ⁽ⁱ⁾		—	26
CAPITAL AND RESERVES ⁽ⁱⁱ⁾			
Share premium		9,465	9,420
Profit and loss account		1,612	1,021
Other reserves		1,399	1,372
Accumulated other comprehensive loss, net of tax	21	(2,227)	(1,961)
Total Willis Towers Watson shareholders' equity		10,249	9,852
Non-controlling interests		120	119
Total equity		10,369	9,971
TOTAL LIABILITIES, CAPITAL AND RESERVES		\$ 35,426	\$ 32,385

- (i) The redeemable non-controlling interest has been presented in accordance with U.S. GAAP.
- (ii) Capital and reserves includes (a) Ordinary shares \$0.000304635 nominal value; Authorized 1,510,003,775; Issued 128,689,930 (2019) and 128,921,530 (2018); Outstanding 128,689,930 (2019) and 128,921,530 (2018); (b) Ordinary shares, €1 nominal value; Authorized and Issued 40,000 shares in 2019 and 2018; and (c) Preference shares, \$0.000115 nominal value; Authorized 1,000,000,000 and Issued none in 2019 and 2018.

The accompanying notes are an integral part of these Consolidated Financial Statements.

Approved by the Board of Directors on April 17, 2020 and signed on behalf of the Directors:

/s/ Anna C. Catalano
Director

/s/ Brendan R. O'Neill
Director

CONSOLIDATED STATEMENT OF CASH FLOWS

	Note	Years ended December 31,		
		2019	2018	2017
(millions)				
CASH FLOWS FROM OPERATING ACTIVITIES				
NET INCOME		\$ 1,073	\$ 715	\$ 592
Adjustments to reconcile net income to total net cash from operating activities:				
Depreciation	9	240	213	252
Amortization	8	489	534	581
Non-cash lease expense		148	—	—
Net periodic benefit of defined benefit pension plans		(135)	(163)	(91)
Provision for doubtful receivables from clients		9	8	17
Benefit from deferred income taxes	7	(72)	(115)	(285)
Share-based compensation	22	74	50	67
Net loss/(gain) on disposal of operations		2	9	(13)
Non-cash foreign exchange loss		26	26	77
Other, net		17	8	(57)
Changes in operating assets and liabilities, net of effects from purchase of subsidiaries:				
Accounts receivable		(261)	68	(64)
Fiduciary assets		(365)	(839)	(1,167)
Fiduciary liabilities		365	839	1,167
Other assets		(269)	(22)	(128)
Other liabilities		(264)	(20)	(51)
Provisions		4	(23)	(35)
Net cash from operating activities		<u>1,081</u>	<u>1,288</u>	<u>862</u>
CASH FLOWS USED IN INVESTING ACTIVITIES				
Additions to fixed assets and software for internal use		(246)	(268)	(300)
Capitalized software costs		(59)	(54)	(75)
Acquisitions of operations, net of cash acquired		(1,329)	(36)	(13)
Net proceeds from sale of operations		17	4	57
Other, net		3	13	(4)
Net cash used in investing activities		<u>(1,614)</u>	<u>(341)</u>	<u>(335)</u>
CASH FLOWS FROM/(USED IN) FINANCING ACTIVITIES				
Net (payments)/borrowings on revolving credit facility		(131)	(754)	642
Senior notes issued		997	998	649
Proceeds from issuance of other debt		1,100	—	32
Debt issuance costs		(13)	(8)	(9)
Repayments of debt		(995)	(170)	(734)
Repurchase of shares		(150)	(602)	(532)
Proceeds from issuance of shares		45	45	61
Payments related to share cancellation		—	—	(177)
Payments of deferred and contingent consideration related to acquisitions		(57)	(50)	(65)
Cash paid for employee taxes on withholding shares		(15)	(30)	(18)
Dividends paid		(329)	(306)	(277)
Acquisitions of and dividends paid to non-controlling interests		(55)	(26)	(51)
Net cash from/(used in) financing activities		<u>397</u>	<u>(903)</u>	<u>(479)</u>
(DECREASE)/INCREASE IN CASH, CASH EQUIVALENTS AND RESTRICTED CASH		(136)	44	48
Effect of exchange rate changes on cash, cash equivalents and restricted cash		(2)	(41)	112
CASH AND CASH EQUIVALENTS, BEGINNING OF YEAR ⁽ⁱ⁾		<u>1,033</u>	<u>1,030</u>	<u>870</u>
CASH, CASH EQUIVALENTS AND RESTRICTED CASH, END OF YEAR ⁽ⁱ⁾		<u>\$ 895</u>	<u>\$ 1,033</u>	<u>\$ 1,030</u>

(i) As a result of the acquired TRANZACT collateralized facility (see Note 11 to these Consolidated Financial Statements), cash, cash equivalents and restricted cash at the end of the year included \$8 million of restricted cash at December 31, 2019, which is included within prepaid and other current assets on our consolidated balance sheet. There were no restricted cash amounts held at December 31, 2018, 2017 and 2016.

The accompanying notes are an integral part of these Consolidated Financial Statements.

CONSOLIDATED STATEMENT OF CHANGES IN EQUITY

	Shares outstanding (thousands)	Share premium	Profit and loss account	Other reserves	AOCL ⁽ⁱ⁾	Total WTW shareholders' equity (millions)	Non- controlling interests	Total equity	Redeemable non- controlling interest ⁽ⁱⁱ⁾	Total
Balance at December 31, 2016	136,297	\$ 9,313	\$ 1,353	\$ 1,283	\$ (1,884)	\$ 10,065	\$ 118	\$ 10,183	\$ 51	
Adoption of ASU 2016-16	—	—	(3)	—	—	(3)	—	(3)	—	
Shares repurchased	(3,797)	—	(532)	—	—	(532)	—	(532)	—	
Shares canceled ⁽ⁱⁱⁱ⁾	(1,415)	—	(177)	—	—	(177)	—	(177)	—	
Net income	—	—	568	—	—	568	16	584	8	\$ 592
Dividends (\$2.12 per share)	—	—	(285)	—	—	(285)	—	(285)	—	
Dividends attributable to non-controlling interests	—	—	—	—	—	—	(15)	(15)	(3)	
Other comprehensive income	—	—	—	—	371	371	7	378	6	\$ 384
Issuance of shares under employee stock compensation plans	1,055	62	—	—	—	62	—	62	—	
Share-based compensation and net settlements	—	—	—	67	—	67	—	67	—	
Acquisition of non-controlling interests	—	—	—	—	—	—	(3)	(3)	(34)	
Foreign currency translation	—	—	—	(10)	—	(10)	—	(10)	—	
Balance at December 31, 2017	132,140	\$ 9,375	\$ 924	\$ 1,340	\$ (1,513)	\$ 10,126	\$ 123	\$ 10,249	\$ 28	
Adoption of ASC 606 (see Note 2 to these Consolidated Financial Statements)	—	—	317	—	—	317	—	317	—	
Shares repurchased	(3,919)	—	(602)	—	—	(602)	—	(602)	—	
Net income	—	—	695	—	—	695	18	713	2	\$ 715
Dividends (\$2.40 per share)	—	—	(313)	—	—	(313)	—	(313)	—	
Dividends attributable to non-controlling interests	—	—	—	—	—	—	(24)	(24)	(2)	
Other comprehensive loss	—	—	—	—	(448)	(448)	2	(446)	(2)	\$ (448)
Issuance of shares under employee stock compensation plans	701	45	—	—	—	45	—	45	—	
Share-based compensation and net settlements	—	—	—	27	—	27	—	27	—	
Foreign currency translation	—	—	—	5	—	5	—	5	—	
Balance at December 31, 2018	128,922	\$ 9,420	\$ 1,021	\$ 1,372	\$ (1,961)	\$ 9,852	\$ 119	\$ 9,971	\$ 26	
Adoption of ASU 2018-02 (see Note 2 to these Consolidated Financial Statements)	—	—	36	—	(36)	—	—	—	—	
Shares repurchased	(788)	—	(150)	—	—	(150)	—	(150)	—	
Net income	—	—	1,044	—	—	1,044	23	1,067	6	\$ 1,073
Dividends (\$2.60 per share)	—	—	(339)	—	—	(339)	—	(339)	—	
Dividends attributable to non-controlling interests	—	—	—	—	—	—	(21)	(21)	(2)	
Other comprehensive loss	—	—	—	—	(230)	(230)	—	(230)	—	\$ (230)
Issuance of shares under employee stock compensation plans	556	45	—	—	—	45	—	45	—	
Share-based compensation and net settlements	—	—	—	32	—	32	—	32	—	
Acquisition of non-controlling interests	—	—	—	(6)	—	(6)	(1)	(7)	(30)	
Foreign currency translation	—	—	—	1	—	1	—	1	—	
Balance at December 31, 2019	<u>128,690</u>	<u>\$ 9,465</u>	<u>\$ 1,612</u>	<u>\$ 1,399</u>	<u>\$ (2,227)</u>	<u>\$ 10,249</u>	<u>\$ 120</u>	<u>\$ 10,369</u>	<u>\$ —</u>	

(i) Additional other comprehensive loss, net of tax ('AOCL').

(ii) The non-controlling interest was related to Max Matthiessen Holding AB. The Company purchased the remaining non-controlling interest of Max Matthiessen Holding AB during the year ended December 31, 2019.

(iii) 1,415,199 shares were surrendered by shareholders in 2017 following Merger-related appraisal demands.

The accompanying notes are an integral part of these Consolidated Financial Statements.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

(Tabular amounts are in millions of U.S. dollars, except per share data and employee numbers)

1. NATURE OF OPERATIONS

Willis Towers Watson plc is a leading global advisory, broking and solutions company that helps clients around the world turn risk into a path for growth. The Company has more than 45,000 employees and services clients in more than 140 countries.

We design and deliver solutions that manage risk, optimize benefits, cultivate talent, and expand the power of capital to protect and strengthen institutions and individuals.

Our risk management services include strategic risk consulting (including providing actuarial analysis), a variety of due diligence services, the provision of practical on-site risk control services (such as health and safety and property loss control consulting), and analytical and advisory services (such as hazard modeling and reinsurance optimization studies). We also assist our clients with planning for addressing incidents or crises when they occur. These services include contingency planning, security audits and product tampering plans.

We help our clients enhance business performance by delivering consulting services, technology and solutions that optimize benefits and cultivate talent. Our services and solutions encompass such areas as employee benefits, total rewards, talent and benefits outsourcing. In addition, we provide investment advice to help our clients develop disciplined and efficient strategies to meet their investment goals and expand the power of capital.

As an insurance broker, we act as an intermediary between our clients and insurance carriers by advising on their risk management requirements, helping them to determine the best means of managing risk and negotiating and placing insurance with insurance carriers through our global distribution network.

We operate a private Medicare marketplace in the U.S. through which, along with our active employee marketplace, we help our clients move to a more sustainable economic model by capping and controlling the costs associated with healthcare benefits. Additionally, with the acquisition of TRANZACT in July 2019 (see Note 3 to these Consolidated Financial Statements), we also provide direct-to-consumer sales of Medicare coverage.

We are not an insurance company, and therefore we do not underwrite insurable risks for our own account. We believe our broad perspective allows us to see the critical intersections between talent, assets and ideas - the dynamic formula that drives business performance.

2. BASIS OF PRESENTATION, SIGNIFICANT ACCOUNTING POLICIES AND RECENT ACCOUNTING PRONOUNCEMENTS

Basis of Presentation

The Parent Company, Willis Towers Watson plc, is a public company limited by shares incorporated and registered in Ireland. Its registered address is Willis Towers Watson House, Elm Park, Merrion Road, Dublin 4, Ireland and its registered number is 475616.

The Company is required to file consolidated financial statements with the Irish Companies Registration Office. These consolidated financial statements are prepared in accordance with U.S. GAAP but incorporate additional Companies Act 2014 requirements.

The Directors have elected to prepare the consolidated financial statements of Willis Towers Watson in accordance with Section 279 of the Companies Act 2014 of Ireland, which provides that a true and fair view of the assets and liabilities, financial position and profit or loss may be given by preparing the consolidated financial statements in accordance with U.S. GAAP, to the extent that the use of those principles in the preparation of the financial statements does not contravene any provision of Part 6 of the Companies Act 2014.

The preparation of these financial statements under U.S. GAAP includes primary statement formats, captions and terminology throughout that both complies with U.S. GAAP and is familiar to users of such accounts filed by the Company in the U.S.

Such disclosure formats, captions and terminology may not always comply specifically with the requirements of Irish Company Law. The Company has departed from the format requirements in Irish Company Law as explained below, to continue its disclosure under U.S. formats. There are various instances of this occurring, including, but not limited to, the Company's consolidated profit and loss account not strictly conforming to the formats prescribed under Irish Company Law. However, the

2. BASIS OF PRESENTATION, SIGNIFICANT ACCOUNTING POLICIES AND RECENT ACCOUNTING PRONOUNCEMENTS (continued)

Company believes that the consolidated profit and loss account as reported better reflects the business and activities of the Company.

The consolidated financial statements include the results of operations of TRANZACT for the period from the date of acquisition through December 31, 2019 (see Note 3 to these Consolidated Financial Statements for further information). All intercompany accounts and transactions have been eliminated in consolidation.

True and Fair View Override

In special disclosure circumstances, where compliance with any of the provisions of the Companies Act 2014 as to the matters to be included in a company's financial statements (or notes thereto) is inconsistent with the requirement to give a true and fair view of the state of affairs and profit or loss, the directors shall depart from that provision to the extent necessary to give a true and fair view. The Company is adopting a true and fair view override in relation to goodwill - see the accounting policy on goodwill below.

Significant Accounting Policies

Principles of Consolidation — The accompanying consolidated financial statements include the accounts of Willis Towers Watson and those of our majority-owned and controlled subsidiaries. Intercompany accounts and transactions have been eliminated.

We determine whether we have a controlling financial interest in an entity by first evaluating whether the entity is a voting interest entity or a variable interest entity ('VIE'). Variable interest entities are entities that lack one or more of the characteristics of a voting interest entity and therefore require a different approach in determining which party involved with the VIE should consolidate the entity. With a VIE, either the entity does not have sufficient equity at risk to finance its activities without additional subordinated financial support from other parties, or the equity holders, as a group, do not have the power to direct the activities that most significantly impact its financial performance, the obligation to absorb expected losses of the entity, or the right to receive the expected residual returns of the entity. The entity that has a controlling financial interest in a VIE is referred to as the primary beneficiary and is required to consolidate the VIE.

Voting interest entities are entities that have sufficient equity and provide equity investors voting rights that give them the power to make significant decisions related to the entity's operations. The usual condition for a controlling financial interest in a voting interest entity is ownership of a majority voting interest. Accordingly, we consolidate our voting interest entity investments in which we hold, directly or indirectly, more than 50% of the voting rights.

Use of Estimates — These consolidated financial statements conform to U.S. GAAP, which requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities as well as disclosures of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenue and expenses during the reporting periods. Our estimates, judgments and assumptions are continually evaluated based on available information and experience. Because of the use of estimates inherent in the financial reporting process, actual results could differ from those estimates. Estimates are used when accounting for revenue recognition and related costs, the selection of useful lives of fixed and intangible assets, impairment testing, valuation of billed and unbilled receivables from clients, discretionary compensation, income taxes, pension assumptions, incurred but not reported claims, legal reserves and goodwill and intangible assets.

Going Concern — The directors evaluate at each annual and interim period whether there are conditions or events, considered in the aggregate, that raise substantial doubt about our ability to continue as a going concern within one year after the date that the consolidated financial statements are issued. The directors' evaluation is based on relevant conditions and events that are known and reasonably knowable at the date that the consolidated financial statements are issued.

In light of the potential future disruption to our own business operations and those of our clients, suppliers and other third parties with whom we interact, the directors considered it was appropriate to perform additional procedures and analysis, specific to COVID-19, to consider whether these events and uncertainties cast significant doubt upon the Company's ability to continue as a going concern. This analysis considered our business resilience and continuity plans, financial modeling and stress testing of liquidity and financial resources. Specifically, the analysis separated the Company's revenue mix into contracts and projects with high client discretion versus contracts and projects that are recurring in nature and less susceptible to economic factors, which averages to 20 percent discretionary and 80 percent non-discretionary. The analysis modeled the financial impact assuming an increasing severity of global economic impact in relation to GDP, and consequently revenue, across the countries in which the Company operates for an 18-month period so that the potential impact on profitability and liquidity could be assessed.

2. BASIS OF PRESENTATION, SIGNIFICANT ACCOUNTING POLICIES AND RECENT ACCOUNTING PRONOUNCEMENTS (continued)

The directors concluded that there are no conditions or events, considered in the aggregate, including those related to the COVID-19 pandemic, that raise substantial doubt about our ability to continue as a going concern within one year after the date of approval of these Consolidated Financial Statements.

Fair Value of Financial Instruments — The carrying values of our cash, cash equivalents and restricted cash, accounts receivable, accrued expenses, revolving lines of credit and term loans approximate their fair values because of the short maturity and liquidity of those instruments. We consider the difference between carrying value and fair value to be immaterial for our senior notes. The fair value of our senior notes are considered Level 2 financial instruments as they are corroborated by observable market data. See Note 12 to these Consolidated Financial Statements for additional information about our measurements of fair value.

Investments in Associates — Investments are accounted for using the equity method of accounting, included within other non-current assets in the consolidated balance sheet, if the Company has the ability to exercise significant influence, but not control, over the investee. Significant influence is generally deemed to exist if the Company has an equity ownership in the voting stock of the investee between 20 and 50 percent, although other factors, such as representation on the board of directors, the existence of substantive participation rights, and the impact of commercial arrangements, are considered in determining whether the equity method of accounting is appropriate. Under the equity method of accounting, the investment is carried at the cost of acquisition, plus the Company's equity in undistributed net income since acquisition, less any dividends received since acquisition.

The Company periodically reviews its investments in associates for which fair value is less than cost to determine if the decline in value is other than temporary. If the decline in value is judged to be other than temporary, the cost basis of the investment is written down to fair value. The amount of any write-down is included in the consolidated profit and loss account.

Cash and Cash Equivalents — Cash and cash equivalents primarily consist of time deposits with original maturities of 90 days or less. In certain of the countries in which we conduct business, we are subject to capital adequacy requirements. Most significantly, Willis Limited, our U.K. brokerage subsidiary regulated by the Financial Conduct Authority, is currently required to maintain \$140 million in unencumbered and available financial resources, of which at least \$79 million must be in cash, for regulatory purposes. Term deposits and certificates of deposits with original maturities greater than 90 days are considered to be short-term investments. As a result of the acquired TRANZACT collateralized facility (see Note 11 to these Consolidated Financial Statements), we have \$8 million of restricted cash at December 31, 2019, which is included within prepaid and other current assets on our consolidated balance sheet.

Fiduciary Assets and Liabilities — The Company collects premiums from insureds and, after deducting commissions, remits the premiums to the respective insurers. The Company also collects claims or refunds from insurers on behalf of insureds. Certain of our health and welfare benefits administration outsourcing agreements require us to hold funds on behalf of clients to pay obligations on their behalf. Each of these transactions is reported on our consolidated balance sheet as assets and corresponding liabilities unless such balances are due to or from the same party and a right of offset exists, in which case the balances are recorded net.

Fiduciary assets on the consolidated balance sheet are comprised of both fiduciary funds and fiduciary receivables:

Fiduciary Funds – Unremitted insurance premiums and claims are recorded within fiduciary assets on the consolidated balance sheet. Fiduciary funds are generally required to be kept in certain regulated bank accounts subject to guidelines which emphasize capital preservation and liquidity. Such funds are not available to service the Company's debt or for other corporate purposes. Notwithstanding the legal relationships with insureds and insurers, the Company is entitled to retain investment income earned on fiduciary funds in accordance with industry custom and practice and, in some cases, as supported by agreements with insureds. The period for which the Company holds such funds is dependent upon the date the insured remits the payment of the premium to the Company, or the date the Company receives refunds from the insurers, and the date the Company is required to forward such payments to the insurer or insured, respectively.

Fiduciary receivables – Uncollected premiums from insureds and uncollected claims or refunds from insurers are recorded as fiduciary assets on the consolidated balance sheet. In certain instances, the Company advances premiums, refunds or claims to insurance underwriters or insureds prior to collection. Such advances are made from fiduciary funds and are reflected in the consolidated balance sheet as fiduciary assets.

Fiduciary liabilities on the consolidated balance sheet represent the obligations to remit all fiduciary funds and fiduciary receivables to insurers or insureds.

2. BASIS OF PRESENTATION, SIGNIFICANT ACCOUNTING POLICIES AND RECENT ACCOUNTING PRONOUNCEMENTS (continued)

Accounts Receivable — Accounts receivable includes both billed and unbilled receivables and is stated at estimated net realizable values. Provision for billed receivables is recorded, when necessary, in an amount considered by management to be sufficient to meet probable future losses related to uncollectible accounts. Accrued and unbilled receivables are stated at net realizable value which includes an allowance for accrued and unbillable amounts. See Note 4 to these Consolidated Financial Statements for additional information about our accounts receivable.

Income Taxes — The Company recognizes deferred tax assets and liabilities for the estimated future tax consequences of events attributable to differences between the financial statement carrying amounts of existing assets and liabilities and their respective tax bases and operating and capital loss and tax credit carryforwards. Deferred tax assets and liabilities are measured using enacted tax rates in effect for the year in which the differences are expected to be recovered or settled. The effect on deferred tax assets and liabilities of changes in tax rates is recognized in the consolidated profit and loss account in the period in which the change is enacted. Deferred tax assets are reduced through the establishment of a valuation allowance at such time as, based on available evidence, it is more likely than not that the deferred tax assets will not be realized. The Company adjusts valuation allowances to measure deferred tax assets at the amounts considered realizable in future periods when the Company's facts and assumptions change. In making such determinations, the Company considers all available positive and negative evidence, including future reversals of existing taxable temporary differences, projected future taxable income, tax planning strategies and recent financial operating results. We place more reliance on evidence that is objectively verifiable.

Positions taken in the Company's tax returns may be subject to challenge by the taxing authorities upon examination. The Company recognizes the benefits of uncertain tax positions in the financial statements when it is more likely than not that a position will be sustained on the basis of the technical merits of the position assuming the tax authorities have full knowledge of the position and all relevant facts. Recognition also occurs upon either the lapse of the relevant statute of limitations, or when positions are effectively settled. The benefit recognized is the largest amount of tax benefit that is greater than 50 percent likely to be realized on settlement with the tax authority. The Company adjusts its recognition of uncertain tax benefits in the period in which new information is available impacting either the recognition or measurement of its uncertain tax positions. Such adjustments are reflected as increases or decreases to income taxes in the period in which they are determined.

The Company recognizes interest and penalties relating to unrecognized tax benefits within income taxes. See Note 7 to these Consolidated Financial Statements for additional information regarding the Company's income taxes.

Foreign Currency — Transactions in currencies other than the functional currency of the entity are recorded at the rates of exchange prevailing at the date of the transaction. Monetary assets and liabilities in currencies other than the functional currency are translated at the rates of exchange prevailing at the balance sheet date and the related transaction gains and losses are reported as income or expense in the consolidated profit and loss account. Certain intercompany loans are determined to be of a long-term investment nature. The Company records transaction gains and losses from re-measuring such loans as other comprehensive income in the consolidated statement of total comprehensive income.

Upon consolidation, the results of operations of subsidiaries and associates whose functional currency is other than the U.S. dollar are translated into U.S. dollars at the average exchange rates and assets and liabilities are translated at year-end exchange rates. Translation adjustments are presented as a separate component of other comprehensive income in the financial statements and are included in net income only upon sale or liquidation of the underlying foreign subsidiary or associated company.

Derivatives — The Company uses derivative financial instruments to alter the risk profile of an existing underlying exposure. Interest rate swaps have been used in past years to manage interest risk exposures. Forward foreign currency exchange contracts are used to manage currency exposures arising from future income and expenses and to offset balance sheet exposures in currencies other than the functional currency of an entity. We do not hold any derivatives for trading purposes. The fair values of derivative contracts are recorded in other assets and other liabilities in the consolidated balance sheet. The effective portions of changes in the fair value of derivatives that qualify for hedge accounting as cash flow hedges are recorded in other comprehensive income. Amounts are reclassified from other comprehensive income into earnings when the hedged exposure affects earnings. If the derivative is designated and qualifies as an effective fair value hedge, the changes in the fair value of the derivative and of the hedged item associated with the hedged risk are both recognized in earnings. The amount of hedge ineffectiveness recognized in earnings is based on the extent to which an offset between the fair value of the derivative and hedged item is not achieved. Changes in the fair value of derivatives that do not qualify for hedge accounting, together with any hedge ineffectiveness on those that do qualify, are recorded in other income, net or interest expense as appropriate.

The Company evaluates whether its contracts include clauses or conditions which would be required to be separately accounted for at fair value as embedded derivatives. See Note 10 to these Consolidated Financial Statements for additional information about the Company's derivatives.

2. BASIS OF PRESENTATION, SIGNIFICANT ACCOUNTING POLICIES AND RECENT ACCOUNTING PRONOUNCEMENTS (continued)

Commitments, Contingencies and Provisions for Liabilities — The Company establishes provisions against various actual and potential claims, lawsuits and other proceedings relating principally to alleged errors and omissions in the ordinary course of business. Such provisions cover claims that have been reported but not paid and also unasserted claims and related legal fees. These provisions are established based on actuarial estimates together with individual case reviews and are believed to be adequate in light of current information and legal advice. In certain cases, where a range of loss exists, we accrue the minimum amount in the range if no amount within the range is a better estimate than any other amount. To the extent such losses can be recovered under the Company's insurance programs, estimated recoveries are recorded when losses for insured events are recognized and the recoveries are likely to be realized. Significant management judgment is required to estimate the amounts of such unasserted claims and the related insurance recoveries. The Company analyzes its litigation exposure based on available information, including consultation with outside counsel handling the defense of these matters, to assess its potential liability. These contingent liabilities are not discounted. See Notes 16 and 14 to these Consolidated Financial Statements for additional information about our commitments, contingencies and provisions for liabilities.

Share-Based Compensation — The Company has equity-based compensation plans that provide for grants of restricted stock units and stock options to employees and non-employee directors of the Company. Additionally, the Company has cash-settled share-based compensation plans that provide for grants to employees.

The Company expenses equity-based compensation, which is included in Salaries and benefits in the consolidated profit and loss account, primarily on a straight-line basis over the requisite service period. The significant assumptions underlying our expense calculations include the fair value of the award on the date of grant, the estimated achievement of any performance targets and estimated forfeiture rates. The awards under equity-based compensation are classified as equity and are included as a component of equity on the Company's consolidated balance sheet, as the ultimate payment of such awards will not be achieved through use of the Company's cash or other assets.

For the cash-settled share-based compensation, the Company recognizes a liability for the fair-value of the awards as of each reporting date. The liability for these awards is included within other non-current liabilities in the consolidated balance sheet since these amounts are not payable until at least 2021. Expense is recognized over the service period, and as the liability is remeasured at the end of each reporting period, changes in fair value are recognized as compensation cost within Salaries and benefits in the consolidated profit and loss account. The significant assumptions underlying our expense calculations include the estimated achievement of any performance targets and estimated forfeiture rates.

See Note 22 to these Consolidated Financial Statements for additional information about the Company's share-based compensation.

Fixed Assets — Fixed assets are stated at cost less accumulated depreciation. Expenditures for improvements are capitalized; repairs and maintenance are charged to expense as incurred. Depreciation is computed primarily using the straight-line method based on the estimated useful lives of assets.

Depreciation on internally-developed software is amortized over the estimated useful life of the asset ranging from 3 to 10 years. Buildings include assets held under finance leases and are depreciated over the lesser of 50 years, the asset lives or the lease terms. Depreciation on leasehold improvements is calculated over the lesser of the useful lives of the assets or the remaining lease terms. Depreciation on furniture and equipment is calculated based on a range of 3 to 10 years. Land is not depreciated.

Long-lived assets are tested for recoverability whenever events or changes in circumstance indicate that their carrying amounts may not be recoverable. An impairment loss is recognized if the carrying amount of a long-lived asset is not recoverable and exceeds its fair value. Recoverability is determined based on the undiscounted cash flows expected to result from the use and eventual disposition of the asset or asset group. Long-lived assets and certain identifiable intangible assets to be disposed of are reported at the lower of carrying amount or fair value less cost to sell. See Note 9 to these Consolidated Financial Statements for additional information about our fixed assets.

Leases (effective from January 1, 2019) — The following policies were effective for the 2019 financial year as a result of the adoption, on January 1, 2019, of ASC 842, *Leases* ('ASC 842'). The lease policies in effect prior to 2019 are reflected in the next section.

2. BASIS OF PRESENTATION, SIGNIFICANT ACCOUNTING POLICIES AND RECENT ACCOUNTING PRONOUNCEMENTS (continued)

As an advisory, broking and solutions company providing services to clients in more than 140 countries, we enter into lease agreements from time to time, primarily for the use of real estate for our office space. We determine if an arrangement is a lease at the inception of the contract, and the nature of our operations is such that it is generally clear whether an arrangement contains a lease and what underlying asset is being leased. The majority of the leases into which we enter are operating leases. Upon entering into leases, we obtain the right to control the use of an identified space for a lease term and recognize these right-of-use ('ROU') assets on our consolidated balance sheet with corresponding lease liabilities reflecting our obligation to make the related lease payments. ROU assets are amortized over the term of the lease.

Our real estate leases are generally long-term in nature, with terms that typically range from 5 to 15 years. Our most significant lease supports our London market operations with a lease term through 2032. Our real estate leases often contain options to renew the lease, either through exercise of the option or through automatic renewal. Additionally, certain leases have options to cancel the lease with appropriate notice to the landlord prior to the end of the stated lease term. As we enter into new leases after the adoption of ASC 842, we consider these options as we assess lease terms in our recognized ROU assets and lease liabilities. If we are reasonably certain to exercise an option to renew a lease, we include this period in our lease term. To the extent that we have the option to cancel a lease, we recognize our ROU assets and lease liabilities using the term that would result from using this earlier date. If a significant penalty is required to cancel the lease at an earlier date, we assess our lease term as ending at the point when no significant penalty would be due.

In addition to payments for previously-agreed base rent, many of our lease agreements are subject to variable and unknown future payments, typically in the form of common area maintenance charges (a non-lease component as defined by ASC 842) or real estate taxes. These variable payments are excluded from our lease liabilities and ROU assets, and instead are recognized as lease expense within other operating expenses on the consolidated profit and loss account as the amounts are incurred. To the extent that we have agreed to fixed charges for common area maintenance or other non-lease components, or our base rent increases by an index or rate (most commonly an inflation rate), these amounts are included in the measurement of our lease liabilities and ROU assets. We have elected the practical expedient under ASC 842 which allows the lease and non-lease components to be combined in our measurement of lease liabilities and ROU assets.

From time to time we may enter into subleases if we are unable to cancel or fully occupy a space and are able to find an appropriate subtenant. However, entering subleases is not a primary objective of our business operations and these arrangements represent an immaterial amount of cash flows.

We are required to use judgment in the determination of the incremental borrowing rates to calculate the present values of our future lease payments. Since the majority of our debt is publicly-traded, our real estate function is centralized, and our treasury function is centralized and generally prohibits our subsidiaries from borrowing externally, we have determined it appropriate to use the Company's consolidated unsecured borrowing rate, and adjust for collateralization in accordance with ASC 842. Using the resulting interest rate curves from publicly-traded debt at this collateralized borrowing rate, we select the interest rate at lease inception by reference to the lease term and lease currency. Over 90% of our leases are denominated in U.S. dollars, Pounds sterling or Euros.

Our leases generally do not subject us to restrictive covenants and contain no residual value guarantees.

See Note 15 to these Consolidated Financial Statements for additional information about our operating leases.

Operating Leases (effective before January 1, 2019) — Rentals payable on operating leases were charged on a straight-line basis to other operating expenses in the consolidated profit and loss account over the lease terms prior to the implementation of ASC 842.

Goodwill and Other Intangible Assets — In applying the acquisition method of accounting for business combinations, amounts assigned to identifiable assets and liabilities acquired were based on estimated fair values as of the date of acquisition, with the remainder recorded as goodwill. Irish Law requires the amortization of goodwill. However, the Company believes the amortization of goodwill would not give a true and fair view because:

- not all goodwill declines in value; and
- goodwill that does decline in value rarely does so on a straight-line basis.

Consequently, straight-line amortization of goodwill over an arbitrary period does not reflect economic reality and thus does not provide useful information to financial statement users. Furthermore, under both U.S. and International generally accepted accounting principles, goodwill is considered an indefinite lived asset and not amortized. The Company is therefore invoking the 'true and fair view override' described above.

2. BASIS OF PRESENTATION, SIGNIFICANT ACCOUNTING POLICIES AND RECENT ACCOUNTING PRONOUNCEMENTS (continued)

The Company is not able to reliably estimate the impact on the financial statements of the true and fair override on the basis that the useful life of goodwill cannot be predicted with a satisfactory level of reliability, nor can the pattern in which goodwill diminishes be known.

Consequently, the Company does not amortize goodwill but tests it for impairment annually as of October 1, and whenever indicators of impairment exist. Goodwill is tested at the reporting unit level, and the Company had nine reporting units as of October 1, 2019. In the first step of the impairment test, the fair value of each reporting unit is compared with its carrying value, including goodwill. If the carrying value of a reporting unit exceeds its fair value, the amount of an impairment loss, if any, is calculated in the second step of the impairment test by comparing the implied fair value of reporting unit goodwill with the carrying amount of that goodwill. The Company's goodwill impairment tests for the years ended December 31, 2019 and 2018 have not resulted in any impairment charges.

Intangible assets are initially valued at fair value using generally accepted valuation methods appropriate for the type of intangible asset. Intangible assets with definite lives are amortized over their estimated useful lives and are reviewed for impairment if indicators of impairment arise. Intangible assets with indefinite lives are tested for impairment annually as of October 1, and whenever indicators of impairment exist. The fair values of intangible assets are compared with their carrying values, and an impairment loss would be recognized for the amount by which a carrying amount exceeds its fair value.

Acquired intangible assets are amortized over the following periods:

	Amortization basis	Expected life (years)
Client relationships	In line with underlying cash flows	5 to 20
Software	In line with underlying cash flows or straight-line basis	4 to 7
Trademark and trade name	Straight-line basis	14 to 25
Other	In line with underlying cash flows or straight-line basis	10 to 18

Prior to the adoption of ASC 842, favorable and unfavorable acquired lease agreement intangible assets and liabilities were amortized straight-line over the remaining terms of the leases. These amounts have been subsumed into the ROU assets upon adoption of ASC 842.

See Note 8 to these Consolidated Financial Statements for additional information about our goodwill and other intangible assets.

Pensions — The Company has multiple defined benefit pension and defined contribution plans. The net periodic cost of the Company's defined benefit plans is measured on an actuarial basis using various methods and actuarial assumptions. The most significant assumptions are the discount rates (calculated using the granular approach to calculating service and interest cost) and the expected long-term rates of return on plan assets. Other material assumptions include rates of participant mortality, the expected long-term rates of compensation and pension increases and rates of employee termination. Gains and losses occur when actual experience differs from actuarial assumptions. If such gains or losses exceed ten percent of the greater of the market-related value of plan assets or the projected benefit obligation, the Company amortizes those gains or losses over the average remaining service period or average remaining life expectancy, as appropriate, of the plan participants. In accordance with U.S. GAAP, the Company records the funded status of its pension plans based on the projected benefit obligation on its consolidated balance sheet.

Contributions to the Company's defined contribution plans are recognized as incurred. Differences between contributions payable in the year and contributions actually paid are shown as either other assets or other liabilities in the consolidated balance sheet. See Note 13 to these Consolidated Financial Statements for additional information about our pensions.

Revenue Recognition (effective from January 1, 2018) — The following policies were effective beginning with the 2018 financial year as a result of the adoption, on January 1, 2018, of ASC 606, *Revenue From Contracts With Customers* ('ASC 606'). The revenue recognition policies in effect prior to 2018 are reflected in the next section.

2. BASIS OF PRESENTATION, SIGNIFICANT ACCOUNTING POLICIES AND RECENT ACCOUNTING PRONOUNCEMENTS (continued)

We recognize revenue from a variety of services, with broking, consulting and outsourced administration representing our most significant offerings. All other revenue streams, which can be recognized at either point in time or over time, are individually less significant and are grouped in Other in our revenue disaggregation disclosures in Note 4 to these Consolidated Financial Statements. These Other revenue streams represent approximately 5% of customer contract revenue for the years ended December 31, 2019 and 2018.

Broking — Representing approximately 50% and 48% of customer contract revenue for the years ended December 31, 2019 and 2018, respectively, in our broking arrangements, we earn revenue by acting as an intermediary in the placement of effective insurance policies. Generally, we act as an agent and view our client to be the party looking to obtain insurance coverage for various risks, or an employer or sponsoring organization looking to obtain insurance coverage for its employees or members. Also, we act as an agent in reinsurance broking arrangements where our client is the party looking to cede risks to the reinsurance markets. Our primary performance obligation under the majority of these arrangements is to place an effective insurance or reinsurance policy, but there can also be significant post-placement obligations in certain contracts to which we need to allocate revenue. The most common of these is for claims handling or call center support. The revenue recognition method for these, after the relative fair value allocation, is described further as part of the ‘Outsourced Administration’ description below.

Due to the nature of the majority of our broking arrangements, no single document constitutes the contract for ASC 606 purposes. Our services may be governed by a mixture of different types of contractual arrangements depending on the jurisdiction or type of coverage, including terms of business agreements, broker-of-record letters, statements of work or local custom and practice. This is then confirmed by the client’s acceptance of the underlying insurance contract. Prior to the policy inception date, the client has not accepted nor formally committed to perform under the arrangement (i.e. pay for the insurance coverage in place). Therefore in the majority of broking arrangements, the contract date is the date the insurance policy incepts. However, in certain instances such as employer-sponsored Medicare broking or Affinity arrangements, where the employer or sponsoring organization is our customer, client acceptance of underlying individual policy placements is not required, and therefore the date at which we have a contract with a customer is not dependent upon placement.

As noted, our primary performance obligations typically consist of only the placement of an effective insurance policy which precedes the inception date of the policy. Therefore, most of our fulfillment costs are incurred before we can recognize revenue, and are thus deferred during the pre-placement process. Where we have material post-placement services obligations, we estimate the relative fair value of the post-placement services using either the expected cost-plus-margin or the market assessment approach.

Revenue from our broking services consists of commissions or fees negotiated in lieu of commissions. At times, we may receive additional income for performing these services from the insurance and reinsurance carriers’ markets, which is collectively referred to as ‘market derived income’. In situations in which our fees are not fixed but are variable, we must estimate the likely commission per policy, taking into account the likelihood of cancellation before the end of the policy term. For employer-sponsored Medicare broking, Affinity arrangements and proportional treaty reinsurance broking, the commissions to which we will be entitled can vary based on the underlying individual insurance policies that are placed. For employer-sponsored Medicare broking and proportional treaty reinsurance broking in particular, we base the estimates of transaction prices on supportable evidence from an analysis of past transactions, and only include amounts that are probable of being received or not refunded (referred to as applying ‘constraint’ under ASC 606). This is an area requiring significant judgment and results in us estimating a transaction price that may be significantly lower than the ultimate amount of commissions we may collect. The transaction price is then adjusted over time as we receive confirmation of our remuneration through receipt of treaty statements, or as other information becomes available.

We recognize revenue for most broking arrangements as of a point in time at the later of the policy inception date or when the policy placement is complete, because this is viewed as the date when control is transferred to the client. For employer-sponsored Medicare broking, we recognize revenue over time, as we stand ready under our agreements to place retiree Medicare coverage. For this type of broking arrangement, we recognize the majority of our placement revenue in the fourth quarter of the calendar year when most of the placement or renewal activity occurs.

2. BASIS OF PRESENTATION, SIGNIFICANT ACCOUNTING POLICIES AND RECENT ACCOUNTING PRONOUNCEMENTS (continued)

Beginning on July 30, 2019 with the acquisition of TRANZACT (see Note 3 to these Consolidated Financial Statements), we have a direct-to-consumer Medicare broking offering. The contractual arrangements in this offering differ from our previously existing employer-sponsored Medicare broking offering described above. The governing contracts in our direct-to-consumer Medicare broking offering are the contractual arrangements with insurance carriers, for whom we act as an agent, that provide compensation in return for issued policies. Once an application is submitted to a carrier, our obligation is complete, and we have no ongoing fulfilment obligations. We receive compensation from carriers in the form of commissions, administrative fees and marketing fees in the first year, and depending on the type of policy issued, we may receive renewal commissions for up to 25 years, provided the policies are renewed for such periods of time.

Because our obligation is complete upon application submission to the carrier, we recognize revenue at that date, which includes both compensation due to us in the first year as well as an estimate of the total renewal commissions that will be received over the lifetime of the policy. This variable consideration estimate requires significant judgment, and will vary based on product type, estimated commission rates, the expected lives of the respective policies and other factors. The Company has applied an actuarial model to account for these uncertainties, which is updated periodically based on actual experience, and includes an element of ‘constraint’ as defined by ASC 606 such that no significant reversal is expected to occur in the future. Actual results will differ from these estimates.

The timing of renewal payments in our direct-to-consumer Medicare broking offering is reflective of regulatory restrictions and insurance carriers’ protection for cancellations and varies based on policy holder decisions that are outside of the control of both the Company and the insurance carriers. As such, the estimate of these renewal commissions receivables has not been discounted to reflect a significant financing component.

Consulting — We earn revenue for advisory and consulting work that may be structured as different types of service offerings, including annual recurring projects, projects of a short duration or stand-ready obligations. Collectively, our consulting arrangements represent approximately 32% and 34% of customer contract revenue for the years ended December 31, 2019 and 2018, respectively.

We have engagement letters with our clients that specify the terms and conditions upon which the engagements are based. These terms and conditions can only be changed upon agreement by both parties.

In assessing our performance obligations, our consulting work is typically highly integrated, with the various promised services representing inputs of the combined overall output. We view these arrangements to represent a single performance obligation. To the extent we do not integrate our services, as is the case with unrelated services that may be sourced from different areas of our business, we consider these separate performance obligations.

Fee terms can be in the form of fixed-fees (including fixed-fees offset by commissions), time-and-expense fees, commissions, per-participant fees, or fees based on assets under management. Payment is typically due on a monthly basis as we perform under the contract, and we are entitled to be reimbursed for work performed to date in the event of termination.

The majority of our revenue from these consulting engagements is recognized over time, either because our clients are simultaneously receiving and consuming the benefits of our services, or because we have an enforceable right to payment for performance rendered to date. Additionally, from time to time, we may be entitled to an additional fee based on achieving certain performance criteria. To the extent that we cannot estimate with reasonable assurance the likelihood that we will achieve the performance target, we will ‘constrain’ this portion of the transaction price and recognize it when or as the uncertainty is resolved.

We use different progress measures to determine our revenue depending on the nature of the engagement:

- *Annual recurring projects and projects of short duration.* These projects are typically straightforward and highly predictable in nature with either time-and-expense or fixed fee terms. Time-and-expense fees are recognized as hours or expenses are incurred using the ‘right to invoice’ practical expedient allowed under ASC 606. For fixed-fee arrangements, to the extent estimates can be made of the remaining work required under the arrangement, revenue is based upon the proportional performance method, using the value of labor hours spent to date compared to the estimated total value of labor hours for the entire engagement. We believe that cost represents a faithful depiction of the transfer of value because the completion of these performance obligations is based upon the professional services of employees of differing experience levels and thereby costs. It is appropriate that satisfaction of these performance obligations considers both the number of hours incurred by each employee and the value of each labor hour worked (as opposed to simply the hours worked).

2. BASIS OF PRESENTATION, SIGNIFICANT ACCOUNTING POLICIES AND RECENT ACCOUNTING PRONOUNCEMENTS (continued)

- *Stand-ready obligations.* These projects consist of repetitive monthly or quarterly services performed consistently each period. As none of the activities provided under these services are performed at specified times and quantities, but at the discretion of each customer, our obligation is to stand ready to perform these services on an as-needed basis. These arrangements represent a ‘series’ performance obligation in accordance with ASC 606. Each time increment (i.e., each month or quarter) of standing ready to provide the overall services is distinct and the customer obtains value from each period of service independent of the other periods of service.

Where we recognize revenue on a proportional performance basis, the amount we recognize is affected by a number of factors that can change the estimated amount of work required to complete the project such as the staffing on the engagement and/or the level of client participation. Our periodic engagement evaluations require us to make judgments and estimates regarding the overall profitability and stage of project completion that, in turn, affect how we recognize revenue. We recognize a loss on an engagement when estimated revenue to be received for that engagement is less than the total estimated costs associated with the engagement. Losses are recognized in the period in which the loss becomes probable and the amount of the loss is reasonably estimable.

Outsourced Administration — We provide customized benefits outsourcing and co-sourcing solutions services in relation to the administration of defined benefit, defined contribution, and health and welfare plans. These plans are sponsored by our clients to provide benefits to their active or retired employees. Additionally, these services include operating call centers, and may include providing access to, and managing, a variety of consumer-directed savings accounts. The operation of call centers and consumer-directed accounts can be provisioned as part of an ongoing administration or solutions service, or separately as part of a broking arrangement. The products and services available to all clients are the same, but the selections by a client can vary and portray customized products and services based on the customer’s specific needs. Our services often include the use of proprietary systems that are configured for each of our clients’ needs. In total, our outsourced administration services represent approximately 12% of customer contract revenue for the years ended December 31, 2019 and 2018.

These contracts typically consist of an implementation phase and an ongoing administration phase:

- *Implementation phase.* Work performed during the implementation phase is considered a set-up activity because it does not transfer a service to the customer, and therefore costs are deferred during this phase of the arrangement. Since these arrangements are longer term in nature and subject to more changes in scope as the project progresses, our contracts generally provide that if the client terminates a contract, we are entitled to an additional payment for services performed through the termination date designed to recover our up-front costs of implementation.
- *Ongoing administration phase.* The ongoing administration phase includes a variety of plan administration services, system hosting and support services. More specifically, these services include data management, calculations, reporting, fulfillment/communications, compliance services, call center support, and in our health and welfare arrangements, annual onboarding and enrollment support. While there are a variety of activities performed, the overall nature of the obligation is to provide an integrated outsourcing solution to the customer. The arrangement represents a stand-ready obligation to perform these activities on an as-needed basis. The customer obtains value from each period of service, and each time increment (i.e., each month, or each benefits cycle in our health and welfare arrangements) is distinct and substantially the same. Accordingly, the ongoing administration services represent a ‘series’ in accordance with ASC 606 and are deemed one performance obligation.

We have engagement letters with our clients that specify the terms and conditions upon which the engagements are based. These terms and conditions can only be changed upon agreement by both parties. Fees for these arrangements can be fixed, per-participant-per-month, or in the case of call center services, provided in conjunction with our broking services, with an allocation based on commissions. Our fees are not typically payable until the commencement of the ongoing administration phase. However, in our health and welfare arrangements, we begin transferring services to our customers approximately four months prior to payments being due as part of our annual onboarding and enrollment work. Although our per-participant-per-month and commission-based fees are considered variable, they are typically predictable in nature, and therefore we generally do not ‘constrain’ any portion of our transaction price estimates. Once fees become payable, payment is typically due on a monthly basis as we perform under the contract, and we are entitled to be reimbursed for work performed to date in the event of termination.

2. BASIS OF PRESENTATION, SIGNIFICANT ACCOUNTING POLICIES AND RECENT ACCOUNTING PRONOUNCEMENTS (continued)

Revenue is recognized over time as the services are performed because our clients are simultaneously receiving and consuming the benefits of our services. For our health and welfare arrangements where each benefits cycle represents a time increment under the series guidance, revenue is recognized based on proportional performance. We use an input measure (value of labor hours worked) as the measure of progress. Given that the service is stand-ready in nature, it can be difficult to predict the remaining obligation under the benefits cycle. Therefore, the input measure is based on the historical effort expended each month, which is measured as labor cost. This results in slightly more revenue being recognized during periods of annual onboarding since we are performing both our normal monthly services and our annual services during this portion of the benefits cycle.

For all other outsourced administration arrangements where a month represents our time increment under the series guidance, we allocate transaction price to the month we are performing our services. Therefore, the amount recognized each month is the variable consideration related to that month plus the fixed monthly or annual fee. The fixed monthly or annual fee is recognized on a straight-line basis. Revenue recognition for these types of arrangements is therefore more consistent throughout the year.

Reimbursed expenses — Client reimbursable expenses, including those relating to travel, other out-of-pocket expenses and any third-party costs, are included in revenue, and an equivalent amount of reimbursable expenses is included in other operating expenses as a cost of revenue as incurred. Reimbursed expenses represented approximately 1% of customer contract revenue for the years ended December 31, 2019 and 2018. Taxes collected from customers and remitted to government authorities are recorded net and are excluded from revenue.

Revenue Recognition (effective before January 1, 2018) — Revenue included insurance commissions, fees in lieu of commission, fees for consulting services rendered, hosted and delivered software, survey sales, interest and other income.

Revenue recognized in excess of billings was recorded as unbilled accounts receivable. Cash collections in excess of revenue recognized were recorded as deferred revenue until the revenue recognition criteria were met. Client reimbursable expenses, including those relating to travel, other out-of-pocket expenses and any third-party costs, were included in revenue, and an equivalent amount of reimbursable expenses was included in other operating expenses as a cost of revenue. Taxes collected from customers and remitted to government authorities were recorded net and were excluded from revenue.

Commissions revenue. Brokerage commissions and fees negotiated in lieu of commissions were recognized at the later of the policy inception date or when the policy placement was complete. In situations in which our fees were not fixed and determinable due to the uncertainty of the commission fee per policy, we recognized revenue as the fees were determined. Commissions on additional premiums and adjustments were recognized when approved by or agreed between the parties and collectability was reasonably assured.

Consulting revenue. The majority of our consulting revenue consisted of fees earned from providing consulting services. We recognized revenue from these consulting engagements when hours were worked, either on a time-and-expense basis or on a fixed-fee basis, depending on the terms and conditions defined at the inception of an engagement with a client. We had engagement letters with our clients that specified the terms and conditions upon which the engagements were based. These terms and conditions could only be changed upon agreement by both parties. Individual billing rates were principally based on a multiple of salary and compensation costs.

Revenue for fixed-fee arrangements was based upon the proportional performance method to the extent estimates could be made of the remaining work required under the arrangement. If we did not have sufficient information to estimate proportional performance, we recognized the fees straight-line over the contract period. We typically had four types of fixed-fee arrangements: annual recurring projects, projects of a short duration, stand-ready obligations and non-recurring system projects.

- *Annual recurring projects and projects of short duration.* These projects were typically straightforward and highly predictable in nature. As a result, the project manager and financial staff were able to identify, as the project status was reviewed and bills were prepared monthly, the occasions when cost overruns could lead to the recording of a loss accrual.
- *Stand-ready obligations.* Where we were entitled to fees (whether fixed or variable based on assets under management or a per-participant per-month basis) regardless of the hours, we generally recognized this revenue on either a straight-line basis or as the variable fees were calculated.
- *Non-recurring system projects.* These projects were longer in duration and subject to more changes in scope as the project progressed. Certain software or outsourced administration contracts generally provided that if the client terminated a contract, we were entitled to an additional payment for services performed through termination designed to recover our up-front cost of implementation.

2. BASIS OF PRESENTATION, SIGNIFICANT ACCOUNTING POLICIES AND RECENT ACCOUNTING PRONOUNCEMENTS (continued)

Revenue recognition for fixed-fee engagements was affected by a number of factors that changed the estimated amount of work required to complete the project such as changes in scope, the staffing on the engagement and/or the level of client participation. The periodic engagement evaluations required us to make judgments and estimates regarding the overall profitability and stage of project completion that, in turn, affected how we recognized revenue. We recognized a loss on an engagement when estimated revenue to be received for that engagement was less than the total estimated costs associated with the engagement. Losses were recognized in the period in which the loss became probable and the amount of the loss was reasonably estimable.

Hosted software. We develop various software programs and technologies that we provide to clients in connection with consulting services. In most instances, such software is hosted and maintained by us and ownership of the technology and rights to the related code remain with us. We deferred costs for software developed to be utilized in providing services to a client, but for which the client did not have the contractual right to take possession, during the implementation stage. We recognized these deferred costs from the go-live date, signaling the end of the implementation stage, until the end of the initial term of the contract with the client. We determined that the system implementation and customized ongoing administrative services were one combined service. Revenue was recognized over the service period, after the go-live date, on a straight-line basis. As a result, we did not recognize revenue during the implementation phase of an engagement.

Delivered software. We deliver software under arrangements with clients who take possession of our software. The maintenance associated with the initial software fees was a fixed percentage which enabled us to determine the stand-alone value of the delivered software separate from the maintenance. We recognized the initial software fees as software was delivered to the client, and we recognized the maintenance fees ratably over the contract period based on each element's relative fair value. For software arrangements in which initial fees were received in connection with mandatory maintenance for the initial software license to remain active, we determined that the initial maintenance period was substantive. Therefore, we recognized the fees for the initial license and maintenance bundle ratably over the initial contract term, which was generally one year. Each subsequent renewal fee was recognized ratably over the contractually-stated renewal period.

Surveys. We collect, analyze and compile data in the form of surveys for our clients who have the option of participating in the survey. The surveys are published online via a web tool that provides simplistic functionality. We determined that the web tool was inconsequential to the overall arrangement. We recorded the survey revenue when the results were delivered online and made available to our clients who had a contractual right to the data. If the data was updated more frequently than annually, we recognized the survey revenue ratably over the contractually-stated period.

Interest income — Interest income is recognized as earned.

Other income — Other income includes gains on disposal of intangible assets, which primarily arise from settlements through enforcing non-compete agreements in the event of losing accounts through producer defection or the disposal of books of business.

Cost to obtain or fulfill contracts (effective from January 1, 2018) — Costs to obtain customers include commissions for brokers under specific agreements that would not be incurred without a contract being signed and executed. The Company has elected to apply the ASC 606 'practical expedient' which allows us to expense these costs as incurred if the amortization period related to the resulting asset would be one year or less. The Company has no significant instances of contracts that would be amortized for a period greater than a year, and therefore has no contract costs capitalized for these arrangements.

Costs to fulfill include costs incurred by the Company that are expected to be recovered within the expected contract period. The costs associated with our system implementation activities and consulting contracts are recorded through time entry.

For our broking business, the Company must estimate the fulfillment costs incurred during the pre-placement of the broking contracts. These judgments include:

- which activities in the pre-placement process should be eligible for capitalization;
- the amount of time and effort expended on those pre-placement activities;
- the amount of payroll and related costs eligible for capitalization; and,
- the monthly or quarterly timing of underlying insurance and reinsurance policy inception dates.

We amortize costs to fulfill over the period we receive the related benefits. For broking pre-placement costs, this is typically less than a year. In our system implementation and consulting arrangements, we include the likelihood of contract renewals in our estimate of the amortization period, resulting in most costs being amortized for a greater length of time than the initial contract term.

2. BASIS OF PRESENTATION, SIGNIFICANT ACCOUNTING POLICIES AND RECENT ACCOUNTING PRONOUNCEMENTS (continued)

Recent Accounting Pronouncements

Not adopted for 2019

In January 2017, the FASB issued ASU No. 2017-04, *Simplifying the Test for Goodwill Impairment*, which simplifies the subsequent measurement of goodwill by eliminating Step 2 from the goodwill impairment test. In computing the implied fair value of goodwill under Step 2, current U.S. GAAP requires the performance of procedures to determine the fair value at the impairment testing date of assets and liabilities (including unrecognized assets and liabilities) following the procedure that would be required in determining the fair value of assets acquired and liabilities assumed in a business combination. Instead, the amendments under this ASU require the goodwill impairment test to be performed by comparing the fair value of a reporting unit with its carrying amount. An impairment charge would be recognized for 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. The ASU became effective for the Company on January 1, 2020, at which time the Company adopted it. The amendments in this ASU are applied on a prospective basis. There will be no immediate impact to the Company's consolidated financial statements upon adopting this ASU. The most recent Step 1 goodwill impairment test resulted in fair values in excess of carrying values for all reporting units at October 1, 2019.

In December 2019, the FASB issued ASU No. 2019-12, *Simplifying the Accounting for Income Taxes*, which clarifies and amends existing guidance, including removing certain exceptions to the general principles of accounting for income taxes. This ASU becomes effective for the Company on January 1, 2021. Some of the changes must be applied on a retrospective or modified retrospective basis while others must be applied on a prospective basis. Early adoption is permitted. The Company does not plan to adopt this ASU early and is assessing the expected impact on our consolidated financial statements.

In August 2018, the FASB issued two ASU's as part of its disclosure framework project. The focus of this project is to improve the effectiveness of disclosures in the notes to the financial statements by facilitating clear communication of the information required by U.S. GAAP that is most important to users of an entity's financial statements. Both of these ASU's remove certain disclosure requirements and add or modify other requirements. The first of these ASU's was ASU No. 2018-13, *Disclosure Framework—Changes to the Disclosure Requirements for Fair Value Measurement*. This ASU became effective for the Company on January 1, 2020, at which time we adopted it. Certain provisions of the ASU were required to be adopted retrospectively, while others were required to be adopted prospectively. This ASU will not have a material impact on the notes to our consolidated financial statements. See below for a discussion of the second ASU that was part of this disclosure framework project.

In June 2016, the FASB issued ASU 2016-13, *Financial Instruments—Credit Losses: Measurement of Credit Losses on Financial Instruments*, which amends the guidance on the impairment of financial instruments. The ASU adds an impairment model (known as the current expected credit loss ('CECL') model) that is based on expected losses rather than incurred losses. Under the new guidance, an entity recognizes as an allowance its estimate of lifetime expected credit losses on assets measured at amortized cost, which is intended to result in more timely recognition of such losses. The ASU is also intended to reduce the complexity of U.S. GAAP by decreasing the number of credit impairment models that entities use to account for debt instruments. Further, the ASU makes targeted changes to the impairment model for available-for-sale debt securities. Additional ASUs have since been issued which provide amended and additional guidance for the implementation of ASU No. 2016-13. All related guidance has been codified into, and is now known as, ASC 326, *Financial Instruments—Credit Losses* ('ASC 326'). ASC 326 became effective for the Company on January 1, 2020, at which time we adopted it. This ASU will not have a material impact on our consolidated financial statements.

In March 2020, the FASB issued ASU No. 2020-04, *Facilitation of the Effects of Reference Rate Reform on Financial Reporting*, which provides optional expedients and exceptions for accounting for contracts, hedging relationships and other transactions affected by reference rate reform if certain criteria are met. The amendments apply only to contracts, hedging relationships and other transactions that reference LIBOR or another reference rate expected to be discontinued because of reference rate reform. This ASU became effective for the Company on March 12, 2020. The Company may apply the changes relating to contracts from January 1, 2020 or from a later date. The Company has made no contract modifications thus far to transition to a different reference rate, but will consider this guidance as future modifications are made.

2. BASIS OF PRESENTATION, SIGNIFICANT ACCOUNTING POLICIES AND RECENT ACCOUNTING PRONOUNCEMENTS (continued)

Adopted for 2019

In February 2016, the FASB issued ASU No. 2016-02, *Leases* ('ASU No. 2016-02'), which requires a lessee to recognize in the statement of financial position a liability to make lease payments (the lease liability) and a right-of-use asset representing its right to use the underlying asset for the lease term. Additional ASUs have since been issued which provide amended and additional guidance for the implementation of ASU No. 2016-02. All related guidance has been codified into, and is now known as, ASC 842, *Leases* ('ASC 842'). ASC 842 became effective, and was adopted by the Company, on January 1, 2019. See above and Note 15 to these Consolidated Financial Statements for a full description of the Company's impact from adoption, adoption elections made and the newly-required disclosures.

In August 2017, the FASB issued ASU No. 2017-12, *Derivatives and Hedging: Targeted Improvements to Accounting for Hedging Activities*, which provides amendments under six specific objectives to better align risk management activities and financial reporting, and to simplify disclosure, presentation, hedging and the testing and measurement of ineffectiveness. The ASU became effective for, and was adopted by, the Company on January 1, 2019. This ASU did not have a material impact on our consolidated financial statements.

In February 2018, the FASB issued ASU No. 2018-02, *Income Statement - Reporting Comprehensive Income: Reclassification of Certain Tax Effects from Accumulated Other Comprehensive Income* ('ASU 2018-02'), which allows for a reclassification from accumulated other comprehensive income/(loss) to retained earnings for 'stranded' tax effects (those tax effects of items within accumulated other comprehensive income resulting from the historical corporate income tax rate reduction) resulting from U.S. Tax Reform. The amendments within this ASU also require certain disclosures about stranded tax effects. The ASU became effective for, and was adopted by, the Company on January 1, 2019, at which time it recorded a reclassification between AOCL and retained earnings of \$36 million. The reclassification of \$36 million from AOCL includes the effect of the change in the U.S. federal corporate tax rate, however it does not include other income tax effects of U.S. Tax Reform. The stranded tax effect primarily relates to defined pension and other post-retirement benefits. The Company's policy is to use the portfolio approach for releasing disproportionate income tax effects from AOCL.

As noted above, in August 2018, the FASB issued two ASU's as part of its disclosure framework project. The second ASU was ASU No. 2018-14, *Disclosure Framework—Changes to the Disclosure Requirements for Defined Benefit Plans*. This ASU will impact certain Consolidated Financial Statements disclosures and will be effective for the Company for its 2020 Consolidated Financial Statements. The changes must be applied on a retrospective basis. As permitted, the Company elected to early-adopt this ASU during the year ended December 31, 2019. This ASU did not have a material impact to the notes to our consolidated financial statements.

3. ACQUISITIONS AND DIVESTITURES

The following disclosures discuss significant transactions during the three-year period ended December 31, 2019.

Acquisitions

TRANZACT Acquisition

On July 30, 2019, the Company acquired TRANZACT, a U.S.-based provider of comprehensive, direct-to-consumer sales and marketing solutions for leading insurance carriers in the U.S. TRANZACT leverages digital, data and direct marketing solutions to deliver qualified leads, fully-provisioned sales and robust customer management systems to brands seeking to acquire and manage large numbers of consumers. Pursuant to the terms of the acquisition agreement, subject to certain adjustments, the consideration consisted of \$1.3 billion paid in cash at closing. Additional contingent consideration in the form of a potential earn-out of up to \$17 million is to be paid in cash in 2021 based on the achievement of certain financial targets. The acquisition was initially funded in part with a \$1.1 billion one-year term loan (see Note 11 to these Consolidated Financial Statements for a description of the term loan and the partial repayment), with the remainder being funded from the Company's existing revolving credit facility. TRANZACT operates as part of our Benefits Delivery and Administration segment and enhances the Company's existing Medicare broking offering, while also adding significant direct-to-consumer marketing experience.

3. ACQUISITIONS AND DIVESTITURES (continued)

A summary of the preliminary fair values of the identifiable assets acquired, and liabilities assumed, of TRANZACT at July 30, 2019 are summarized in the following table.

Cash and cash equivalents	\$	7
Restricted cash		2
Accounts receivable, net		3
Renewal commissions receivable, current ⁽ⁱ⁾		36
Prepaid and other current assets		22
Renewal commissions receivable, non-current ⁽ⁱ⁾		130
Fixed assets		9
Intangible assets		646
Goodwill		727
Right-of-use assets		19
Other non-current assets		2
Collateralized facility ⁽ⁱⁱ⁾		(91)
Other current liabilities		(55)
Deferred tax liabilities, net		(109)
Lease liabilities		(19)
Net assets acquired	\$	<u>1,329</u>

(i) Renewal commissions receivables arise from direct-to-consumer Medicare broking sales. Cash collections for these receivables are expected to occur over a period of several years. Due to the provisions of ASC 606, these receivables are not discounted for a significant financing component when initially recognized (see Note 2 to these Consolidated Financial Statements). However, as a result of recognizing the fair value of these receivables in accordance with ASC 805, *Business Combinations*, these receivables have now been present-valued at the acquisition date. Prior to this fair value adjustment, the carrying value of these receivables was \$231 million. The adjusted values of these acquired renewal commissions receivables will be included in prepaid and other current assets or other non-current assets, as appropriate, on the consolidated balance sheet. The acquired renewal commissions receivables will be accounted for prospectively using the cost recovery method in which future cash receipts will initially be applied against the acquisition date fair value until the value reaches zero. Any cash received in excess of the fair value determined at acquisition will be recorded to earnings when it is received at a future date.

(ii) See Note 11 to these Consolidated Financial Statements for a description of the acquired collateralized facility debt.

Intangible assets consist primarily of \$612 million of customer relationships, with an expected life of 15.4 years. Additional intangibles acquired consist of domain names.

Goodwill is calculated as the difference between the aggregate consideration and the acquisition date fair value of the net assets acquired, including the intangible assets acquired, and represents the value of TRANZACT's assembled workforce and the future economic benefits that we expect to achieve as a result of the acquisition. None of the goodwill recognized on the transaction is tax deductible, however there is tax deductible goodwill that will be carried forward from previous acquisitions by TRANZACT.

During the three months ended December 31, 2019, purchase price allocation adjustments were made primarily to adjust the deferred tax liabilities related to the deductibility of goodwill. The purchase price allocation as of the acquisition date related to deferred tax assets and deferred tax liabilities is not yet complete.

Following the acquisition, TRANZACT generated revenue of \$245 million, which is included in the consolidated profit and loss account for the year ended December 31, 2019.

The registered office of CD&R TZ Holdings, Inc. (now TZ Holdings, Inc.) was 9 E. Loockerman Street, Suite 311, Dover, DE 19901 (now 251 Little Falls Drive, Wilmington, New Castle County, DE 19808).

Alston Gayler Acquisition

On December 21, 2018, the Company, through its majority-owned subsidiary, Miller, completed the transaction to acquire Alston Gayler, a U.K.-based insurance and reinsurance broker, for total consideration of \$67 million. Cash consideration of \$35 million was paid upon completion of the acquisition, with the remaining \$32 million deferred consideration to be paid in equal installments on the first, second and third anniversaries of the date of acquisition.

The Company has recognized \$36 million of intangible assets, primarily arising from client relationships, and \$24 million of goodwill. The purchase price allocation for this transaction is complete.

3. ACQUISITIONS AND DIVESTITURES (continued)

The registered office of Alston Gaylor & Co Limited was 100 Leadenhall Street, London, EC3A 3BP (now 70 Mark Lane, London, England, EC3R 7NQ).

Other Acquisitions

Other individually less significant acquisitions were completed during the year ended December 31, 2019 for combined cash payments of \$15 million and contingent consideration fair valued at \$9 million.

Divestitures

Related Party Transaction - In the third quarter of 2017, the Company divested its Global Wealth Solutions business through a sale to an employee of the business. As part of that transaction, we financed a \$50 million note payable from the employee to purchase the business. The note amortizes over 10 years, bears interest at a weighted-average rate of 3% and is guaranteed by \$3 million in assets. Following the sale, employees of this business are no longer employees of the Company, and the purchasing employee is no longer considered a related party.

2017 Cumulative Divestiture Impact - Including the divestiture of Global Wealth Solutions, we sold five businesses during the second half of 2017. For the year ended December 31, 2017, the total gain recognized related to business disposals was \$13 million, which was recorded in Other income, net on the accompanying consolidated profit and loss account. Results from these disposals prior to the sales represented \$54 million of revenue and \$13 million of operating income for the year ended December 31, 2017.

4. REVENUE

Disaggregation of Revenue

The Company reports revenue by segment in Note 5 to these Consolidated Financial Statements. The following table presents revenue by service offering and segment, as well as a reconciliation to total revenue for the years ended December 31, 2019 and 2018 (ASC 606 was adopted and effective for the Company from January 1, 2018 forward). Along with reimbursable expenses and other, total revenue by service offering represents our revenue from customer contracts.

	Year Ended December 31,											
	HCB		CRB		IRR		BDA		Corporate ⁽ⁱ⁾		Total	
	2019	2018	2019	2018	2019	2018	2019	2018	2019	2018	2019	2018
Broking	\$ 278	\$ 266	\$ 2,692	\$ 2,578	\$ 975	\$ 905	\$ 514	\$ 272	\$ —	\$ —	\$ 4,459	\$ 4,021
Consulting	2,269	2,224	132	163	421	430	—	—	11	13	2,833	2,830
Outsourced administration	466	484	71	65	10	—	521	486	—	—	1,068	1,035
Other	262	235	5	9	205	185	—	—	4	4	476	433
Total revenue by service offering	3,275	3,209	2,900	2,815	1,611	1,520	1,035	758	15	17	8,836	8,319
Reimbursable expenses and other ⁽ⁱⁱ⁾	61	62	1	—	9	8	12	7	22	17	105	94
Total revenue from customer contracts	\$ 3,336	\$ 3,271	\$ 2,901	\$ 2,815	\$ 1,620	\$ 1,528	\$ 1,047	\$ 765	\$ 37	\$ 34	\$ 8,941	\$ 8,413
Interest and other income ⁽ⁱⁱ⁾	23	24	46	37	26	36	—	—	3	3	98	100
Total revenue	\$ 3,359	\$ 3,295	\$ 2,947	\$ 2,852	\$ 1,646	\$ 1,564	\$ 1,047	\$ 765	\$ 40	\$ 37	\$ 9,039	\$ 8,513

(i) Reimbursable expenses and other, as well as Corporate revenue, are excluded from segment revenue, but included in total revenue on the consolidated profit and loss account.

(ii) Interest and other income is included in segment revenue and total revenue, however it has been presented separately in the above tables because it does not arise directly from contracts with customers.

Individual revenue streams aggregating to 5% of total revenue for the years ended December 31, 2019 and 2018 have been included within the Other line in the table above.

The following table presents revenue by the geography where our work was performed for the years ended December 31, 2019 and 2018. The reconciliation to total revenue on our consolidated profit and loss account and to segment revenue is shown in the table above.

4. REVENUE (continued)

	Year Ended December 31,											
	HCB		CRB		IRR		BDA		Corporate		Total	
	2019	2018	2019	2018	2019	2018	2019	2018	2019	2018	2019	2018
North America	\$ 1,901	\$ 1,849	\$ 1,112	\$ 1,044	\$ 449	\$ 416	\$ 1,033	\$ 758	\$ 13	\$ 16	\$ 4,508	\$ 4,083
Great Britain	475	481	656	648	788	732	—	—	—	—	1,919	1,861
Western Europe	566	562	661	631	216	218	—	—	1	1	1,444	1,412
International	333	317	471	492	158	154	2	—	1	—	965	963
Total revenue by geography	<u>\$ 3,275</u>	<u>\$ 3,209</u>	<u>\$ 2,900</u>	<u>\$ 2,815</u>	<u>\$ 1,611</u>	<u>\$ 1,520</u>	<u>\$ 1,035</u>	<u>\$ 758</u>	<u>\$ 15</u>	<u>\$ 17</u>	<u>\$ 8,836</u>	<u>\$ 8,319</u>

Contract Balances

The Company reports accounts receivable, net on the consolidated balance sheet, which includes billed and unbilled receivables and current contract assets. In addition to accounts receivable, net, the Company had the following non-current contract assets and deferred revenue balances at December 31, 2019 and 2018:

	December 31, 2019	December 31, 2018
Billed receivables, net of allowance for doubtful accounts of \$37 million and \$40 million	\$ 1,831	\$ 1,702
Unbilled receivables	434	356
Current contract assets	356	321
Accounts receivable, net	\$ 2,621	\$ 2,379
Non-current accounts receivable, net	\$ 30	\$ 20
Non-current contract assets	\$ 105	\$ 3
Deferred revenue	\$ 538	\$ 448

The Company receives payments from customers based on billing schedules or terms as written in our contracts. Those balances denoted as contract assets relate to situations where we have completed some or all performance under the contract, however our right to consideration is conditional. Contract assets result most materially in our Medicare broking and proportional treaty broking businesses. The significant increases in both current and non-current contract assets for the year ended December 31, 2019 relate to our direct-to-consumer Medicare broking business following the acquisition of TRANZACT (see Note 3 to these Consolidated Financial Statements for further information). Billed and unbilled receivables are recorded when the right to consideration becomes unconditional. Deferred revenue relates to payments received in advance of performance under the contract and is recognized as revenue as (or when) we perform under the contract.

Accounts receivable are stated at estimated net realizable values. The following table presents the changes in our allowance for doubtful accounts for the years ended December 31, 2019, 2018 and 2017.

	December 31, 2019	December 31, 2018	December 31, 2017
Balance at beginning of year	\$ 40	\$ 45	\$ 40
Additions charged to costs and expenses	9	9	17
Deductions/other movements	(10)	(15)	(9)
Foreign exchange	(2)	1	(3)
Balance at end of year	<u>\$ 37</u>	<u>\$ 40</u>	<u>\$ 45</u>

During the year ended December 31, 2019, revenue of approximately \$373 million was recognized that was reflected as deferred revenue at December 31, 2018.

During the year ended December 31, 2019, the Company recognized revenue of approximately \$32 million related to performance obligations satisfied in a prior period.

4. REVENUE (continued)

Performance Obligations

The Company has contracts for which performance obligations have not been satisfied as of December 31, 2019 or have been partially satisfied as of that date. The following table shows the expected timing for the satisfaction of the remaining performance obligations. This table does not include contract renewals or variable consideration, which was excluded from the transaction prices in accordance with the guidance on constraining estimates of variable consideration.

In addition, in accordance with ASC 606, the Company has elected not to disclose the remaining performance obligations when one or both of the following circumstances apply:

- Performance obligations which are part of a contract that has an original expected duration of less than one year, and
- Performance obligations satisfied in accordance with ASC 606-10-55-18 ('right to invoice').

	2020	2021	2022 onward	Total
Revenue expected to be recognized on contracts as of December 31, 2019	\$ 492	\$ 367	\$ 420	\$ 1,279

Since most of the Company's contracts are cancellable with less than one year's notice, and have no substantive penalty for cancellation, the majority of the Company's remaining performance obligations as of December 31, 2019 have been excluded from the table above.

Costs to obtain or fulfill a contract

The Company incurs costs to obtain or fulfill contracts which it would not incur if a contract with a customer was not executed.

The following table shows the categories of costs that are capitalized and deferred over the expected life of a contract.

	Costs to fulfill	
	December 31, 2019	December 31, 2018
Balance at beginning of the year	\$ 148	\$ 126
New capitalized costs	488	465
Amortization	(460)	(442)
Impairments	—	—
Foreign currency translation	1	(1)
Balance at end of the year	<u>\$ 177</u>	<u>\$ 148</u>

5. SEGMENT INFORMATION

Willis Towers Watson has four reportable operating segments or business areas:

- Human Capital and Benefits ('HCB')
- Corporate Risk and Broking ('CRB')
- Investment, Risk and Reinsurance ('IRR')
- Benefits Delivery and Administration ('BDA')

Willis Towers Watson's chief operating decision maker is its chief executive officer. We determined that the operational data used by the chief operating decision maker is at the segment level. Management bases strategic goals and decisions on these segments and the data presented below is used to assess the adequacy of strategic decisions and the method of achieving these strategies and related financial results. Management evaluates the performance of its segments and allocates resources to them based on net operating income on a pre-tax basis.

The Company experiences seasonal fluctuations of its revenue. Revenue is typically higher during the Company's first and fourth quarters due primarily to the timing of broking-related activities.

5. SEGMENT INFORMATION (continued)

Under the segment structure and for internal and segment reporting, Willis Towers Watson segment revenue includes commissions and fees, interest and other income. U.S. GAAP revenue includes amounts that were directly incurred on behalf of our clients and reimbursed by them (reimbursable expenses), which are removed from segment revenue. Segment operating income excludes certain costs, including (i) amortization of intangibles; (ii) restructuring costs; (iii) certain transaction and integration expenses; (iv) certain litigation provisions; and (v) to the extent that the actual expense based upon which allocations are made differs from the forecast/budget amount, a reconciling item will be created between internally-allocated expenses and the actual expenses that we report for U.S. GAAP purposes.

The following table presents segment revenue and segment operating income for our reportable segments for the years ended December 31, 2019, 2018 and 2017.

	Segment revenue			Segment operating income		
	Years ended December 31			Years ended December 31		
	2019	2018	2017	2019	2018	2017
HCB	\$ 3,298	\$ 3,233	\$ 3,176	\$ 848	\$ 789	\$ 774
CRB	2,946	2,852	2,709	578	528	483
IRR	1,637	1,556	1,474	420	384	329
BDA	1,035	758	734	244	144	153
Total	\$ 8,916	\$ 8,399	\$ 8,093	\$ 2,090	\$ 1,845	\$ 1,739

The following table presents reconciliations of the information reported by segment to the Company's consolidated amounts reported for the years ended December 31, 2019, 2018 and 2017.

	Years ended December 31,		
	2019	2018	2017
Revenue:			
Total segment revenue	\$ 8,916	\$ 8,399	\$ 8,093
Reimbursable expenses and other	123	114	109
Revenue	\$ 9,039	\$ 8,513	\$ 8,202
Total segment operating income	\$ 2,090	\$ 1,845	\$ 1,739
Amortization	(489)	(534)	(581)
Restructuring costs	—	—	(132)
Transaction and integration expenses ⁽ⁱ⁾	(13)	(202)	(269)
Provisions for significant litigation	—	—	(11)
Unallocated, net ⁽ⁱⁱ⁾	(259)	(300)	(230)
Income from operations	1,329	809	516
Interest expense	(234)	(208)	(188)
Other income, net	227	250	164
Income from operations before income taxes	\$ 1,322	\$ 851	\$ 492

(i) Includes transaction costs related to the TRANZACT acquisition in 2019, and transaction and integration expenses related to the Merger and the acquisition of Gras Savoye for prior years.

(ii) Includes certain costs, primarily related to corporate functions which are not directly related to the segments, and certain differences between budgeted expenses determined at the beginning of the year and actual expenses that we report for U.S. GAAP purposes.

The Company does not currently provide asset information by reportable segment as it does not routinely evaluate the total asset position by segment.

None of the Company's customers represented a significant amount of its consolidated revenue for the years ended December 31, 2019, 2018 and 2017.

5. SEGMENT INFORMATION (continued)

Below are our revenue and long-lived assets for Ireland, our country of domicile, countries with significant concentrations, and all other foreign countries for each of the years ended December 31, 2019, 2018 and 2017:

	Revenue			Long-Lived Assets ⁽ⁱ⁾		
	2019	2018	2017	2019	2018	2017
Ireland	\$ 144	\$ 138	\$ 107	\$ 103	\$ 78	\$ 127
United States	4,370	3,970	3,821	12,786	11,068	9,988
United Kingdom	1,934	1,926	1,815	2,901	2,349	3,173
Rest of World	2,591	2,479	2,459	2,527	2,411	3,263
Total Foreign Countries	8,895	8,375	8,095	18,214	15,828	16,424
	<u>\$ 9,039</u>	<u>\$ 8,513</u>	<u>\$ 8,202</u>	<u>\$ 18,317</u>	<u>\$ 15,906</u>	<u>\$ 16,551</u>

(i) Long-lived assets do not include deferred tax assets.

6. RESTRUCTURING COSTS

The Company's restructuring costs included in its consolidated financial statements were related to its Operational Improvement Program. Costs for the program were fully accrued and completed by the end of 2017. No additional costs for the program were incurred during 2019 or 2018.

Operational Improvement Program - In April 2014, Legacy Willis announced a multi-year operational improvement program designed to strengthen its client service capabilities and to deliver future cost savings. The main elements of the program included: moving more than 3,500 support roles from higher cost locations to facilities in lower cost locations; net workforce reductions in support positions; lease consolidation in real estate; and information technology systems simplification and rationalization.

The Company recognized restructuring costs of \$134 million for the year ended December 31, 2017 related to the Operational Improvement Program. The Company spent a cumulative amount of \$441 million on restructuring costs for this program.

An analysis of total restructuring costs recognized in the consolidated profit and loss account, with costs by segment, and costs attributable to corporate functions, for the year ended December 31, 2017 is as follows:

	HCB	CRB	IRR	BDA	Corporate	Total ⁽ⁱ⁾
Year ended December 31, 2017						
Termination benefits	\$ —	\$ 25	\$ 4	\$ —	\$ 17	\$ 46
Professional services and other ⁽ⁱⁱ⁾	3	63	6	—	14	86
Total	<u>\$ 3</u>	<u>\$ 88</u>	<u>\$ 10</u>	<u>\$ —</u>	<u>\$ 31</u>	<u>\$ 132</u>

(i) Presented net of a \$2 million reversal of an estimated expense related to the Company's 2016 Business Restructure Program.

(ii) Other includes salary and benefits, premises, and other expenses incurred to support the ongoing management and facilitation of the programs.

An analysis of the restructuring costs recognized for the Operational Improvement Program for the year ended December 31, 2017 and the cumulative total costs by segment are as follows:

	HCB	CRB	IRR	BDA	Corporate	Total
Year ended December 31, 2017						
Termination benefits	\$ —	\$ 25	\$ 4	\$ —	\$ 19	\$ 48
Professional services and other ⁽ⁱ⁾	3	63	6	—	14	86
Total						
Termination benefits	\$ 3	\$ 82	\$ 15	\$ —	\$ 23	\$ 123
Professional services and other ⁽ⁱ⁾	5	204	12	—	97	318
Total	<u>\$ 8</u>	<u>\$ 286</u>	<u>\$ 27</u>	<u>\$ —</u>	<u>\$ 120</u>	<u>\$ 441</u>

(i) Other includes salary and benefits, premises, and other expenses incurred to support the ongoing management and facilitation of the program.

6. RESTRUCTURING COSTS (continued)

The changes in the Company's liability under the Operational Improvement Program from January 1, 2017 to December 31, 2019, are as follows:

	Termination Benefits	Professional Services and Other	Total
Balance at January 1, 2017	\$ 7	\$ 18	\$ 25
Charges incurred	48	86	134
Cash payments	(41)	(97)	(138)
Balance at December 31, 2017	14	7	21
Cash payments	(12)	(6)	(18)
Balance at December 31, 2018	2	1	3
Cash payments	(2)	(1)	(3)
Balance at December 31, 2019	<u>\$ —</u>	<u>\$ —</u>	<u>\$ —</u>

7. INCOME TAXES

On December 22, 2017, the U.S. government enacted comprehensive tax legislation, commonly referred to as 'U.S. Tax Reform'. On the same date, the SEC staff issued Staff Accounting Bulletin No. 118 ('SAB 118'), which provided guidance on accounting for the tax effects of the U.S. Tax Reform. SAB 118 provided a measurement period that should not extend beyond one year from the U.S. Tax Reform enactment date for companies to complete the accounting under ASC 740, *Income Taxes* ('ASC 740'). While the measurement period under SAB 118 is now closed, the Company may in future periods need to further refine its U.S. federal and state tax calculations related to U.S. Tax Reform as the taxing authorities provide additional guidance and clarification. However, as of December 31, 2019, the Company's accounting for U.S. Tax Reform is complete based on its interpretation of the guidance issued as of the balance sheet date.

Provision for income taxes

An analysis of income from operations before income taxes by taxing jurisdiction is shown below:

	Years ended December 31,		
	2019	2018	2017
Ireland	\$ (11)	\$ (16)	\$ (23)
U.S.	178	(101)	(198)
U.K.	337	182	31
Rest of World	818	786	682
Total	<u>\$ 1,322</u>	<u>\$ 851</u>	<u>\$ 492</u>

The components of the (provision for)/benefit from income taxes include:

	Years ended December 31,		
	2019	2018	2017
Current tax expense:			
U.S. federal taxes	\$ (108)	\$ (98)	\$ (65)
U.S. state and local taxes	(43)	(25)	(7)
U.K. corporation tax	(43)	(16)	(14)
Other jurisdictions	(127)	(112)	(99)
Total current tax expense	<u>(321)</u>	<u>(251)</u>	<u>(185)</u>
Deferred tax benefit:			
U.S. federal taxes	56	79	268
U.S. state and local taxes	14	12	(6)
U.K. corporation tax	(15)	(6)	9
Other jurisdictions	17	30	14
Total deferred tax benefit	<u>72</u>	<u>115</u>	<u>285</u>
Total (provision for)/benefit from income taxes	<u>\$ (249)</u>	<u>\$ (136)</u>	<u>\$ 100</u>

7. INCOME TAXES (continued)

Effective tax rate reconciliation

The reported (provision for)/benefit from income taxes differs from the amounts that would have resulted had the reported income before income taxes been taxed at the U.S. federal statutory rate. The principal reasons for the differences between the amounts provided and those that would have resulted from the application of the U.S. federal statutory tax rate are as follows:

	Years ended December 31,		
	2019	2018	2017
INCOME FROM OPERATIONS BEFORE INCOME TAXES	\$ 1,322	\$ 851	\$ 492
U.S. federal statutory income tax rate	21%	21%	35%
Income tax expense at U.S. federal tax rate	(278)	(179)	(172)
Adjustments to derive effective tax rate:			
Non-deductible expenses and dividends	(34)	(44)	(68)
Non-deductible acquisition costs	(2)	(2)	(11)
Disposal of non-deductible goodwill	—	1	(11)
Impact of change in rate on deferred tax balances	—	7	—
Effect of foreign exchange and other differences	1	1	(3)
Non-deductible Venezuelan foreign exchange loss	—	—	(2)
Changes in valuation allowances	6	80	(13)
Net tax effect of intra-group items	93	99	97
Tax differentials of non-U.S. jurisdictions	(2)	(2)	69
Tax differentials of U.S. state taxes and local taxes	(21)	(77)	6
Global Intangible Low-Taxed Income (GILTI)	(7)	(15)	—
Impact of U.S. Tax Reform	—	—	204
Other items, net	(5)	(5)	4
(Provision for)/benefit from income taxes	<u>\$ (249)</u>	<u>\$ (136)</u>	<u>\$ 100</u>

Included in the changes in valuation allowance for 2018, the Company recorded a deferred income tax benefit for approximately \$71 million related to the valuation allowance release of certain state deferred tax assets.

In 2017, in connection with our initial analysis of U.S. Tax Reform, the Company recorded a provisional net tax benefit of \$204 million, which consisted of a net benefit of \$208 million due to the reduction of the federal corporate tax rate and re-measurement of our net U.S. deferred tax liabilities primarily related to acquisition-based intangibles, and a \$76 million benefit related to the release of a deferred tax liability we had previously recorded on the accumulated earnings of certain Towers Watson subsidiaries. These net benefit items were offset by provisional expenses of \$8 million recognized as a write-off of a deferred tax asset the Company had previously recorded on executive compensation as well as the U.S. federal and state income tax expense of \$72 million associated with the one-time transition tax on foreign earnings of our subsidiaries.

Willis Towers Watson plc is a non-trading holding company tax resident in Ireland where it is taxed at the statutory rate of 25%. In 2019 and 2018, the provisions for income tax on operations have been reconciled above to the U.S. federal statutory tax rate of 21% due to significant operations in the U.S. The 2017 effective tax rate has not been restated to reflect a U.S. federal statutory tax rate of 21%.

Deferred income taxes

Deferred income tax assets and liabilities reflect the effect of temporary differences between the assets and liabilities recognized for financial reporting purposes and the amounts recognized for income tax purposes. We recognize deferred tax assets if it is more likely than not that a benefit will be realized.

7. INCOME TAXES (continued)

Deferred income tax assets and liabilities included in the consolidated balance sheet at December 31, 2019 and 2018 are comprised of the following:

	December 31,	
	2019	2018
Deferred tax assets:		
Accrued expenses not currently deductible	\$ 201	\$ 177
Net operating losses	116	91
Capital loss carryforwards	33	30
Accrued retirement benefits	326	285
Operating lease liabilities	181	—
Deferred compensation	86	82
Stock options	18	22
Financial derivative transactions	—	1
Gross deferred tax assets	961	688
Less: valuation allowance	(76)	(81)
Net deferred tax assets	\$ 885	\$ 607
Deferred tax liabilities:		
Cost of intangible assets, net of related amortization	\$ 865	\$ 825
Operating lease right-of-use assets	177	—
Cost of tangible assets, net of related depreciation	53	37
Prepaid retirement benefits	121	101
Financial derivative transactions	3	—
Accrued revenue not currently taxable	120	144
Deferred tax liabilities	\$ 1,339	\$ 1,107
Net deferred tax liabilities	\$ 454	\$ 500

The net deferred income tax assets are included in other non-current assets and the net deferred tax liabilities are included in deferred tax liabilities in our consolidated balance sheet.

	December 31,	
	2019	2018
Balance sheet classifications:		
Other non-current assets	\$ 72	\$ 59
Deferred tax liabilities	526	559
Net deferred tax liability	\$ 454	\$ 500

At December 31, 2019, we had U.S. federal and non-U.S. net operating loss carryforwards amounting to \$379 million of which \$277 million can be indefinitely carried forward under local statutes. The remaining \$102 million of net operating loss carryforwards will expire, if unused, in varying amounts from 2020 through 2039. In addition, we had U.S. state net operating loss carryforwards of \$631 million, of which \$43 million can be indefinitely carried forward, while the remaining \$588 million will expire in varying amounts from 2020 to 2039.

Management believes, based on the evaluation of positive and negative evidence, including the future reversal of existing taxable temporary differences, it is more likely than not that the Company will realize the benefits of net deferred tax assets of \$885 million, net of the valuation allowance. During 2019, the Company decreased its valuation allowance by \$5 million, primarily related to non-U.S. deferred tax assets now considered realizable. During 2018, the Company decreased its valuation allowance by \$81 million primarily related to the completion of an internal U.S. restructuring. The U.S. restructuring provided a source of positive evidence and enabled the Company to release valuation allowance on certain state deferred tax assets now considered realizable. In addition, the Company reassessed certain state net operating losses and determined these losses and related valuation allowance would never be realized. During 2017, the Company increased its valuation allowance by \$28 million primarily due to state net operating losses.

7. INCOME TAXES (continued)

At December 31, 2019 and 2018, the Company had valuation allowances of \$76 million and \$81 million, respectively, to reduce its deferred tax assets to their estimated realizable values. The valuation allowance at December 31, 2019 primarily relates to deferred tax assets for U.K. capital loss carryforwards of \$33 million, which have an unlimited carryforward period but can only be utilized against U.K. capital gains and U.S. and non-U.S. net operating losses of \$26 million and \$14 million, respectively. The valuation allowance at December 31, 2018 primarily related to deferred tax assets for U.K. capital loss carryforwards of \$30 million, which have an unlimited carryforward period, and U.S. and non-U.S. net operating losses of \$27 million and \$20 million, respectively.

An analysis of our valuation allowance is shown below.

	Years ended December 31,		
	2019	2018	2017
Balance at beginning of year	\$ 81	\$ 162	\$ 134
Additions charged to costs and expenses	7	18	35
Deductions	(12)	(99)	(7)
Balance at end of year	<u>\$ 76</u>	<u>\$ 81</u>	<u>\$ 162</u>

In 2019, the net change in valuation allowance was a \$5 million decrease, primarily related to non-U.S. deferred tax assets now considered realizable. This amount differs from the 2019 rate reconciliation due to changes in foreign currency translation. In 2018, the net change in valuation allowance was an \$81 million decrease, of which \$80 million was a reduction to tax expense primarily related to an internal U.S. restructuring. In 2017, the amount charged to tax expense in the table above differs from the 2017 rate reconciliation of \$13 million because a portion of the valuation allowance increase is related to the U.S. federal corporate tax rate reduction impact on the U.S. state valuation allowance and is included in the impact of U.S. Tax Reform.

The Company recognizes deferred tax balances related to the undistributed earnings of subsidiaries when the Company expects that it will recover those undistributed earnings in a taxable manner, such as through receipt of dividends or sale of the investments.

At December 31, 2018, as a result of an international restructuring, we determined that we may repatriate \$2.1 billion, which was previously deemed indefinitely reinvested. As a result, we recorded an estimate for foreign withholding and state income tax expense of approximately \$11 million. During the second quarter of 2019 the Company repatriated a portion of this previously-taxed income and return of capital. Subsequent to the repatriation, U.S. Treasury Regulations were issued that would impact the U.S. taxability of the balance of the earnings associated with the international restructuring. As such, the Company changed its assertion with respect to any additional earnings from this restructuring for the foreseeable future and released approximately \$8 million previously accrued for foreign withholding and state income tax expense. Of the original \$2.1 billion under consideration, \$1.4 billion remains permanently reinvested at December 31, 2019.

The cumulative earnings related to amounts reinvested indefinitely as of December 31, 2019 were approximately \$8.2 billion, the majority of which are non-U.S. earnings not subject to U.S. tax. It is not practicable to calculate the tax cost of repatriating these unremitted earnings. If future events, including material changes in estimates of cash, working capital, long-term investment requirements or additional guidance relating to U.S. Tax Reform necessitate that these earnings be distributed, an additional provision for income and foreign withholding taxes, net of credits, may be necessary.

Uncertain tax positions

At December 31, 2019, the amount of unrecognized tax benefits associated with uncertain tax positions, determined in accordance with ASC 740-10, excluding interest and penalties, was \$49 million. A reconciliation of the beginning and ending balances of the liability for unrecognized tax benefits is as follows:

	2019	2018	2017
Balance at beginning of year	\$ 49	\$ 59	\$ 56
Increases related to tax positions in prior years	2	2	2
Decreases related to tax positions in prior years	(1)	(4)	(5)
Decreases related to settlements	—	(4)	—
Decreases related to lapse in statute of limitations	(1)	(5)	(2)
Increases related to current year tax positions	—	3	9
Cumulative translation adjustment and other adjustments	—	(2)	(1)
Balance at end of year	<u>\$ 49</u>	<u>\$ 49</u>	<u>\$ 59</u>

7. INCOME TAXES (continued)

The liability for unrecognized tax benefits for the years ended December 31, 2019, 2018 and 2017 can be reduced by \$3 million, \$2 million and \$3 million, respectively, of offsetting deferred tax benefits associated with timing differences, foreign tax credits and the federal tax benefit of state income taxes. If these offsetting deferred tax benefits were recognized, there would be a favorable impact on our effective tax rate. There are no material balances that would result in adjustments to other tax accounts.

Interest and penalties related to unrecognized tax benefits are included as a component of income tax expense. At December 31, 2019, we had cumulative accrued interest of \$4 million. At December 31, 2018, the cumulative accrued interest was \$3 million. Penalties were immaterial in both 2019 and 2018.

Tax expense for the year ended December 31, 2019 includes \$1 million of interest expense. Tax expense for the year ended December 31, 2018 included an immaterial interest benefit.

The Company believes that the outcomes which are reasonably possible within the next 12 months may result in a reduction in the liability for unrecognized tax benefits in the range of \$2 million to \$7 million, excluding interest and penalties.

The Company and its subsidiaries file income tax returns in various tax jurisdictions in which it operates.

Willis North America Inc. and Subsidiaries' federal income tax filing for tax year ended December 31, 2017 is currently under examination by the Internal Revenue Service ('IRS'). In December 2019 the IRS informed the Company that it will also examine the tax year ended December 31, 2018. As of December 31, 2019, the IRS has not issued any requests for information with regards to the 2018 tax year and has not advised the Company of any proposed adjustments related to the 2017 tax year.

In August 2019, CD&R TZ Holdings, Inc. was selected for examination by the IRS for calendar year 2017. Subsequently, the IRS determined that it would open an audit of Tranzact Holdings, LLC (for tax year January 1, 2016 to July 21, 2016). As of December 31, 2019, the IRS has not yet issued any requests for information.

We have ongoing state income tax examinations in certain states for tax years ranging from calendar years ended December 31, 2014 through December 31, 2018. The statute of limitations in certain states extends back to calendar year 2014.

All U.K. tax returns have been filed timely and are in the normal process of being reviewed by HM Revenue & Customs. The Company is not currently subject to any material examinations in other jurisdictions. A summary of the tax years that remain open to tax examination in our major tax jurisdictions are as follows:

	Open Tax Years (fiscal year ending in)
U.S. — federal	2016 and forward
U.S. — various states	2014 and forward
U.K.	2010 and forward
Ireland	2014 and forward
France	2010 and forward
Germany	2010 and forward
Canada - federal	2012 and forward

8. GOODWILL AND OTHER INTANGIBLE ASSETS

Goodwill

The components of goodwill are outlined below for the years ended December 31, 2019 and 2018:

	HCB	CRB	IRR	BDA	Total
Balance at December 31, 2017					
Goodwill, gross	\$ 4,342	\$ 2,261	\$ 1,851	\$ 2,557	\$ 11,011
Accumulated impairment losses	(130)	(362)	—	—	(492)
Goodwill, net - December 31, 2017	4,212	1,899	1,851	2,557	10,519
Goodwill reassigned in segment realignment ⁽ⁱ⁾	—	72	(72)	—	—
Goodwill acquired during the period	—	9	29	—	38
Goodwill disposed of during the period	—	—	(5)	—	(5)
Foreign exchange	(42)	(34)	(11)	—	(87)
Balance at December 31, 2018					
Goodwill, gross	4,300	2,308	1,792	2,557	10,957
Accumulated impairment losses	(130)	(362)	—	—	(492)
Goodwill, net - December 31, 2018	4,170	1,946	1,792	2,557	10,465
Goodwill acquired during the period	—	10	—	727	737
Goodwill disposed of during the period	—	(6)	—	—	(6)
Foreign exchange	(2)	(3)	3	—	(2)
Balance at December 31, 2019					
Goodwill, gross	4,298	2,309	1,795	3,284	11,686
Accumulated impairment losses	(130)	(362)	—	—	(492)
Goodwill, net - December 31, 2019	\$ 4,168	\$ 1,947	\$ 1,795	\$ 3,284	\$ 11,194

(i) Represents the reallocation of goodwill related to certain businesses which were realigned among the segments as of January 1, 2018.

Other Intangible Assets

The following table reflects changes in the net carrying amounts of the components of finite-lived intangible assets for the year ended December 31, 2019:

	Balance at December 31, 2018	ASC 842 reclassification ⁽ⁱ⁾	Intangible assets acquired ⁽ⁱⁱ⁾	Intangible assets disposed	Amortization	Foreign exchange	Balance at December 31, 2019
Client relationships	\$ 1,986	\$ —	\$ 626	\$ (9)	\$ (313)	\$ 8	\$ 2,298
Software	328	—	—	(1)	(125)	—	202
Trademark and trade name	920	—	—	—	(45)	—	875
Favorable agreements	9	(9)	—	—	—	—	—
Other	75	—	34	—	(6)	—	103
Total amortizable intangible assets	\$ 3,318	\$ (9)	\$ 660	\$ (10)	\$ (489)	\$ 8	\$ 3,478

(i) On January 1, 2019, in accordance with ASC 842, we reclassified our favorable lease agreement assets to right-of-use assets within our consolidated balance sheet.

(ii) Includes \$612 million and \$34 million of client relationship and domain name intangible assets, respectively, associated with our acquisition of TRANZACT.

8. GOODWILL AND OTHER INTANGIBLE ASSETS (continued)

The following table reflects changes in the net carrying amounts of the components of finite-lived intangible assets for the year ended December 31, 2018:

	Balance at December 31, 2017	Intangible assets acquired	Intangible assets disposed	Amortization ⁽ⁱ⁾	Foreign exchange	Balance at December 31, 2018
Client relationships	\$ 2,342	\$ 39	\$ (7)	\$ (341)	\$ (47)	\$ 1,986
Software	473	—	—	(140)	(5)	328
Trademark and trade name	966	—	—	(44)	(2)	920
Favorable agreements	10	—	—	(2)	1	9
Other	91	—	—	(9)	(7)	75
Total amortizable intangible assets	<u>\$ 3,882</u>	<u>\$ 39</u>	<u>\$ (7)</u>	<u>\$ (536)</u>	<u>\$ (60)</u>	<u>\$ 3,318</u>

(i) Amortization associated with favorable lease agreements was recorded in Other operating expenses in the consolidated profit and loss account.

We recorded amortization related to our finite-lived intangible assets of \$489 million for the year ended December 31, 2019. For the years ended December 31, 2018 and 2017, we recorded amortization related to our finite-lived intangible assets, exclusive of the amortization of our favorable lease agreements, of \$534 million and \$581 million, respectively.

Our acquired unfavorable lease agreement liabilities were \$21 million at December 31, 2018 and were recorded in other non-current liabilities in the consolidated balance sheet. On January 1, 2019, in accordance with ASC 842, we reclassified our unfavorable lease liabilities as a reduction to our right-of-use assets within our consolidated balance sheet.

The following table reflects the carrying values of finite-lived intangible assets and liabilities at December 31, 2019 and December 31, 2018:

	December 31, 2019		December 31, 2018	
	Gross Carrying Amount	Accumulated Amortization	Gross Carrying Amount	Accumulated Amortization
Client relationships	\$ 4,029	\$ (1,731)	\$ 3,401	\$ (1,415)
Software	753	(551)	749	(421)
Trademark and trade name	1,051	(176)	1,052	(132)
Favorable agreements ⁽ⁱ⁾	—	—	14	(5)
Other	134	(31)	102	(27)
Total finite-lived assets	<u>\$ 5,967</u>	<u>\$ (2,489)</u>	<u>\$ 5,318</u>	<u>\$ (2,000)</u>
Unfavorable agreements ⁽ⁱ⁾	\$ —	\$ —	\$ 34	\$ (13)
Total finite-lived intangible liabilities	<u>\$ —</u>	<u>\$ —</u>	<u>\$ 34</u>	<u>\$ (13)</u>

(i) On January 1, 2019, in accordance with ASC 842, we reclassified our favorable lease agreement assets and unfavorable lease agreement liabilities to right-of-use assets and as reductions to right-of-use assets, respectively, within our consolidated balance sheet.

The weighted-average remaining life of amortizable intangible assets and liabilities at December 31, 2019 was 13.7 years.

The table below reflects the future estimated amortization expense for amortizable intangible assets for the next five years and thereafter:

Years ended December 31,	Amortization
2020	\$ 455
2021	378
2022	319
2023	269
2024	236
Thereafter	1,821
Total	<u>\$ 3,478</u>

9. FIXED ASSETS

The following table reflects changes in the net carrying amount of the components of fixed assets for the years ended December 31, 2019 and 2018:

	Furniture, equipment and software	Leasehold improvements	Land and buildings	Total
Cost: at January 1, 2018	\$ 1,300	\$ 468	\$ 94	\$ 1,862
Additions	249	70	—	319
Disposals	(278)	(35)	—	(313)
Reclassification due to ASC 606 ⁽ⁱ⁾	(102)	—	—	(102)
Foreign exchange	(39)	(15)	(2)	(56)
Cost: at December 31, 2018	1,130	488	92	1,710
Additions	268	68	—	336
Acquisitions	7	3	—	10
Disposals	(117)	(15)	—	(132)
Reclassification due to ASC 842 ⁽ⁱⁱ⁾	—	—	(3)	(3)
Foreign exchange	14	6	1	21
Cost: at December 31, 2019	\$ 1,302	\$ 550	\$ 90	\$ 1,942
Depreciation: at January 1, 2018	\$ (652)	\$ (176)	\$ (49)	\$ (877)
Depreciation expense ⁽ⁱⁱⁱ⁾	(155)	(54)	(4)	(213)
Disposals	250	27	—	277
Reclassification due to ASC 606 ⁽ⁱ⁾	19	—	—	19
Foreign exchange	19	6	1	26
Depreciation: at December 31, 2018	(519)	(197)	(52)	(768)
Depreciation expense	(179)	(57)	(4)	(240)
Disposals	109	11	—	120
Foreign exchange	(5)	(2)	(1)	(8)
Depreciation: at December 31, 2019	\$ (594)	\$ (245)	\$ (57)	\$ (896)
Net book value:				
At December 31, 2018	\$ 611	\$ 291	\$ 40	\$ 942
At December 31, 2019	\$ 708	\$ 305	\$ 33	\$ 1,046

(i) Pertains to costs related to certain client-related system implementation activities that have been included in other non-current assets upon the adoption of ASC 606.

(ii) Pertains to certain lease incentives which have been included within right-of-use assets upon the adoption of ASC 842. See Note 2 to these Consolidated Financial Statements for further information.

(iii) Depreciation expense included here does not equal the depreciation expense on the consolidated profit and loss account for the year ended December 31, 2018 due to the inclusion of \$5 million, which has been classified as transaction and integration expenses.

Included within land and buildings are the following assets held under finance leases:

	December 31,	
	2019	2018
Finance leases	\$ 29	\$ 31
Accumulated depreciation	(19)	(16)
	\$ 10	\$ 15

10. DERIVATIVE FINANCIAL INSTRUMENTS

We are exposed to certain foreign currency risks. Where possible, we identify exposures in our business that can be offset internally. Where no natural offset is identified, we may choose to enter into various derivative transactions. These instruments have the effect of reducing our exposure to unfavorable changes in foreign currency rates. The Company's board of directors reviews and approves policies for managing this risk as summarized below. Additional information regarding our derivative financial instruments can be found in Notes 2, 12 and 21 to these Consolidated Financial Statements.

Foreign Currency Risk

Certain non-U.S. subsidiaries receive revenue and incur expenses in currencies other than their functional currency, and as a result, the foreign subsidiary's functional currency revenue and/or expenses will fluctuate as the currency rates change. Additionally, the forecast Pounds sterling expenses of our London brokerage market operations may exceed their Pounds sterling revenue, and they may also hold significant foreign currency asset or liability positions in the consolidated balance sheet. To reduce such variability, we use foreign exchange contracts to hedge against this currency risk.

These derivatives were designated as hedging instruments and at December 31, 2019 and December 31, 2018 had total notional amounts of \$499 million and \$438 million, respectively, and had a net fair value asset of \$8 million and a net fair value liability of \$15 million, respectively.

At December 31, 2019, the Company estimates, based on current exchange rates, there will be \$2 million of net derivative gains on forward exchange rates reclassified from accumulated other comprehensive loss into earnings within the next twelve months as the forecast transactions affect earnings. At December 31, 2019, our longest outstanding maturity was 1.7 years.

The effects of the material derivative instruments that are designated as hedging instruments on the consolidated profit and loss account and the consolidated statement of total comprehensive income for the years ended December 31, 2019, 2018 and 2017 are below. Amounts pertaining to the ineffective portion of hedging instruments and those excluded from effectiveness testing were immaterial for the years ended December 31, 2019, 2018 and 2017.

	Gain/(loss) recognized in OCI (effective element)		
	2019	2018	2017
Foreign exchange contracts	\$ 15	\$ (22)	\$ 39
Location of loss reclassified from Accumulated OCL into income (effective element)			
	Loss reclassified from Accumulated OCL into income (effective element)		
	2019	2018	2017
Revenue	\$ (5)	\$ —	\$ —
Salaries and benefits	(4)	—	—
Other income, net	—	(28)	(53)
	\$ (9)	\$ (28)	\$ (53)

We also enter into foreign currency transactions, primarily to hedge certain intercompany loans and other balance sheet exposures in currencies other than the functional currency of a given entity. These derivatives are not generally designated as hedging instruments and at December 31, 2019 and December 31, 2018, we had notional amounts of \$931 million and \$909 million, respectively, and had net fair value assets of \$21 million and \$3 million, respectively.

The effects of derivatives that have not been designated as hedging instruments on the consolidated profit and loss account for the years ended December 31, 2019, 2018 and 2017 are as follows:

Derivatives not designated as hedging instruments:	Location of gain recognized in income	Gain recognized in income		
		2019	2018	2017
Foreign exchange contracts	Other income, net	\$ 18	\$ —	\$ 11

11. DEBT

Current debt consists of the following:

	December 31,	
	2019	2018
Term loan due 2020	\$ 292	\$ —
Current portion of collateralized facility	24	—
7.000% senior notes due 2019	—	186
	<u>\$ 316</u>	<u>\$ 186</u>

Long-term debt consists of the following:

	December 31,	
	2019	2018
Revolving \$1.25 billion credit facility	\$ —	\$ 130
Collateralized facility	60	—
5.750% senior notes due 2021	499	498
3.500% senior notes due 2021	448	448
2.125% senior notes due 2022 ⁽ⁱ⁾	604	615
4.625% senior notes due 2023	249	248
3.600% senior notes due 2024	646	645
4.400% senior notes due 2026	546	544
4.500% senior notes due 2028	595	595
2.950% senior notes due 2029	446	—
6.125% senior notes due 2043	271	271
5.050% senior notes due 2048	395	395
3.875% senior notes due 2049	542	—
	<u>\$ 5,301</u>	<u>\$ 4,389</u>

(i) Notes issued in Euro (€540 million)

Guarantees

All direct obligations under the 5.750% senior notes are issued by Willis Towers Watson and guaranteed by Willis Netherlands Holdings B.V., Willis Investment UK Holdings Limited, TA I Limited, Trinity Acquisition plc, Willis Group Limited, Willis North America Inc., Willis Towers Watson Sub Holdings Unlimited Company and Willis Towers Watson U.K. Holdings Limited.

All direct obligations under the 3.600%, 4.500%, 2.950%, 5.050% and 3.875% senior notes are issued by Willis North America Inc. and guaranteed by Willis Towers Watson and each of the subsidiaries that guarantees the Company notes, except for Willis North America Inc. itself.

All direct obligations under the 4.625%, 6.125%, 3.500%, 4.400%, and 2.125% senior notes are issued by Trinity Acquisition plc and guaranteed by Willis Towers Watson and each of the subsidiaries that guarantees the Company notes, except for Trinity Acquisition plc itself.

Revolving Credit Facility

\$1.25 billion revolving credit facility

On March 7, 2017, Trinity Acquisition plc entered into a \$1.25 billion amended and restated revolving credit facility (the 'RCF'), that will mature on March 7, 2022. The RCF replaced the previous \$800 million revolving credit facility (see below for further information). Amounts outstanding under the RCF shall bear interest at LIBOR plus a margin of 1.00% to 1.75%, or alternatively, the base rate plus a margin of 0.00% to 0.75%, based upon the Company's guaranteed senior unsecured long-term debt rating.

Borrowings of \$409 million and €45 million against the RCF were used to repay all outstanding borrowings against the previous \$800 million revolving credit facility and the 7-year term loan due July 23, 2018.

Additionally, on March 28, 2017, \$407 million was used to repay the 6.200% senior notes due 2017, including accrued interest.

11. DEBT (continued)**Senior Notes***2.950% senior notes due 2029 and 3.875% senior notes due 2049*

On September 10, 2019, the Company, together with its wholly-owned subsidiary, Willis North America Inc. as issuer, completed an offering of \$450 million aggregate principal amount of 2.950% senior notes due 2029 ('2029 senior notes') and \$550 million aggregate principal amount of 3.875% senior notes due 2049 ('2049 senior notes'). The effective interest rates of the 2029 senior notes and 2049 senior notes are 2.971% and 3.898%, respectively, which include the impact of the discount upon issuance. The 2029 senior notes will mature on September 15, 2029 and the 2049 senior notes will mature on September 15, 2049. Interest has accrued on both the 2029 senior notes and 2049 senior notes from September 10, 2019 and will be paid in cash on March 15 and September 15 of each year, commencing on March 15, 2020. The net proceeds from this offering, after deducting underwriter discounts and commissions and estimated offering expenses, were approximately \$988 million, and were used to prepay a portion of the amount outstanding under the Company's one-year term loan commitment (described below) and to repay borrowings under the Company's \$1.25 billion revolving credit facility.

4.500% senior notes due 2028 and 5.050% senior notes due 2048

On September 10, 2018, the Company, together with its wholly-owned subsidiary, Willis North America Inc. as issuer, completed an offering of \$600 million of 4.500% senior notes due 2028 ('2028 senior notes') and \$400 million of 5.050% senior notes due 2048 ('2048 senior notes'). The effective interest rates of the 2028 senior notes and 2048 senior notes are 4.504% and 5.073%, respectively, which include the impact of the discount upon issuance. The 2028 senior notes will mature on September 15, 2028 and the 2048 senior notes will mature on September 15, 2048. Interest has accrued on both the 2028 senior notes and 2048 senior notes from September 10, 2018 and is paid in cash on March 15 and September 15 of each year. The net proceeds from this offering, after deducting underwriter discounts and commissions and estimated offering expenses, were \$989 million, and were used to prepay in full \$127 million outstanding under the Company's term loan due December 2019, and to repay a portion of the amount outstanding under the Company's RCF.

3.600% senior notes due 2024

On May 16, 2017, Willis North America Inc. issued \$650 million of 3.600% senior notes due 2024 ('2024 senior notes'). The effective interest rate of the 2024 senior notes is 3.614%, which includes the impact of the discount upon issuance. The 2024 senior notes will mature on May 15, 2024, and interest has accrued on the 2024 senior notes from May 16, 2017 and is paid in cash on May 15 and November 15 of each year. The net proceeds from this offering, after deducting underwriter discounts and commissions and estimated offering expenses, were \$644 million, and were used to pay down amounts outstanding under the RCF and for general corporate purposes.

2.125% senior notes due 2022

On May 26, 2016, Trinity Acquisition plc issued €540 million (\$609 million) of 2.125% senior notes due 2022 ('2022 senior notes'). The effective interest rate of these senior notes is 2.154%, which includes the impact of the discount upon issuance. The 2022 senior notes will mature on May 26, 2022. Interest has accrued on the notes from May 26, 2016 and will be paid in cash on May 26 of each year. The net proceeds from this offering, after deducting underwriter discounts and commissions and estimated offering expenses, were €535 million (\$600 million). We used the net proceeds of this offering to repay a portion of the previous 1-year term loan facility, which matured in 2016, and related accrued interest.

3.500% senior notes due 2021 and 4.400% senior notes due 2026

On March 22, 2016, Trinity Acquisition plc issued \$450 million of 3.500% senior notes due 2021 ('2021 senior notes') and \$550 million of 4.400% senior notes due 2026 ('2026 senior notes'). The effective interest rates of these senior notes are 3.707% and 4.572%, respectively, which include the impact of the discount upon issuance. The 2021 senior notes and the 2026 senior notes will mature on September 15, 2021 and March 15, 2026, respectively. Interest has accrued on the notes from March 22, 2016 and will be paid in cash on March 15 and September 15 of each year. The net proceeds from these offerings, after deducting underwriter discounts and commissions and estimated offering expenses, were \$988 million. We used the net proceeds of these offerings to: (i) repay \$300 million principal under the prior \$800 million revolving credit facility and related accrued interest, which was drawn to repay our previously-issued 4.125% senior notes on March 15, 2016; (ii) repay \$400 million principal on another portion of the previous 1-year term loan facility and related accrued interest; and (iii) pay down a portion of the remaining principal amount outstanding under the previous \$800 million revolving credit facility (see below for further information) and related accrued interest.

11. DEBT (continued)

4.625% senior notes due 2023 and 6.125% senior notes due 2043

On August 15, 2013, the Company issued \$250 million of 4.625% senior notes due 2023 and \$275 million of 6.125% senior notes due 2043. The effective interest rates of these senior notes are 4.696% and 6.154%, respectively, which include the impact of the discount upon issuance. The proceeds were used to repurchase other previously-issued senior notes.

5.750% senior notes due 2021

In March 2011, the Company issued \$500 million of 5.750% senior notes due 2021. The effective interest rate of these senior notes is 5.871%, which includes the impact of the discount upon issuance. The proceeds were used to repurchase and redeem other previously- issued senior notes.

7.000% senior notes due 2019

In September 2009, Willis North America Inc. issued \$300 million of 7.000% senior notes due 2019. The effective interest rate of these senior notes was 7.081%, which included the impact of the discount upon issuance. A portion of the proceeds was used to repurchase and redeem other previously-issued senior notes. In August 2013, \$113 million of the 7.000% senior notes due 2019 were repurchased. In September 2019, the Company repaid in full the remaining \$187 million outstanding on the 7.000% senior notes due 2019 with borrowings against its revolving credit facility.

One-year Term Loan Commitment

As part of the acquisition of TRANZACT, the Company secured financing of up to \$1.1 billion in the form of a one-year unsecured term loan. Borrowing occurred in conjunction with the closing of the acquisition on July 30, 2019.

Amounts outstanding under the term loan bear interest, at the option of the borrowers, at a rate equal to (a) LIBOR plus 0.75% to 1.375% for Eurocurrency Rate Loans or (b) the highest of (i) the Federal Funds Rate plus 0.5%, (ii) the 'prime rate' quoted by Bank of America, N.A., and (iii) LIBOR plus 1.00%, plus 0.00% to 0.375%, in each case, based upon the Company's guaranteed senior-unsecured long-term debt rating. In addition, the Company paid a commitment fee in an amount equal to 0.15% per annum on the undrawn portion of the commitments in respect of the term loan, which we had accrued from May 29, 2019 until the closing date of the acquisition.

The term loan is pre-payable in part or in full prior to the maturity date at the Company's discretion. Covenants and events of default are substantively the same as in our existing revolving credit facility.

Collateralized Facility

As part of the acquisition of TRANZACT, the Company assumed debt of \$91 million related to borrowings by TRANZACT whereby certain renewal commissions receivables were pledged as collateral. The Company is required to remit cash received from these pledged renewal commissions receivables on a quarterly basis to the lenders until the borrowings and related interest are repaid, after the payment of certain fees and other permitted distributions. No borrowings have been made against this collateralized facility since the acquisition.

The maturity date of the borrowing is in January 2033, at which time all remaining outstanding principal and unpaid accrued interest will be payable. The collateralization facility may be prepaid in November 2021 or earlier if approval is obtained from at least half of the lenders. Loans under the agreement bear interest at LIBOR plus an applicable margin of 3.95%. The collateralization facility contains financial covenants including requirements to keep separate and securely maintain the collateral. As cash is received for these pledged assets, it is classified as restricted cash within prepaid and other current assets on our accompanying consolidated balance sheet. Accumulated cash receipts are applied against the principal and interest on a quarterly basis. At December 31, 2019, the Company had \$127 million of renewal commissions receivable pledged as collateral.

Additional Information Regarding Fully Repaid Revolving Credit Facility, Term Loan Facilities and Senior Notes

\$800 million revolving credit facility

Drawings under the previous \$800 million revolving credit facility bore interest at LIBOR plus a margin of 1.25% to 2.00%, or alternatively the base rate plus a margin of 0.25% to 1.00% based upon the Company's guaranteed senior unsecured long-term debt rating; a 1.375% margin applied while the Company's debt rating remained BBB/Baa3.

11. DEBT (continued)*Term loan due December 2019*

On January 4, 2016, we acquired a \$340 million term loan in connection with the Merger. On November 20, 2015, Towers Watson Delaware Inc. entered into a 4-year amortizing term loan agreement for up to \$340 million with a consortium of banks to help fund the pre-Merger special dividend. On December 28, 2015, Towers Watson Delaware Inc. borrowed the full \$340 million. During 2018, we prepaid the remaining \$127 million outstanding under the term loan with proceeds from the issuance of the 2028 senior notes and 2048 senior notes discussed above.

7-year term loan facility

The 7-year term loan facility, which expired during 2018, bore interest at the same rate applicable to the previous \$800 million revolving credit facility and was repayable in quarterly installments of \$6 million with a final repayment of \$186 million due in the third quarter of 2018. During 2017, we repaid in full and terminated the 7-year term loan with proceeds from borrowings against our \$1.25 billion revolving credit facility.

Covenants

The terms of our current financings also include certain limitations. For example, the agreements relating to the debt arrangements and credit facilities generally contain numerous operating and financial covenants, including requirements to maintain minimum ratios of consolidated EBITDA to consolidated cash interest expense and maximum levels of consolidated funded indebtedness in relation to consolidated EBITDA, in each case subject to certain adjustments. The operating restrictions and financial covenants in our current credit facilities do, and any future financing agreements may, limit our ability to finance future operations or capital needs or to engage in other business activities. At December 31, 2019 and 2018, we were in compliance with all financial covenants.

Debt Maturity

The following table summarizes the maturity of our debt, interest on senior notes and excludes any reduction for debt issuance costs:

	2020	2021	2022	2023	2024	Thereafter	Total
Senior notes	\$ —	\$ 950	\$ 606	\$ 250	\$ 650	\$ 2,825	\$ 5,281
Interest on senior notes	215	188	163	153	132	1,511	2,362
RCF	—	—	—	—	—	—	—
Term loan due 2020	295	—	—	—	—	—	295
Collateralized facility ⁽ⁱ⁾	24	22	17	13	3	—	79
Total	<u>\$ 534</u>	<u>\$ 1,160</u>	<u>\$ 786</u>	<u>\$ 416</u>	<u>\$ 785</u>	<u>\$ 4,336</u>	<u>\$ 8,017</u>

(i) Consists of the cash obligation outstanding prior to the adjustment to fair value of the facility as part of acquisition accounting for TRANZACT. See Note 3 to these Consolidated Financial Statements for further information.

Interest Expense

The following table shows an analysis of the interest expense for the years ended December 31:

	Years ended December 31,		
	2019	2018	2017
Senior notes	\$ 206	\$ 166	\$ 148
Term loans	9	4	8
RCF	8	26	17
Other ⁽ⁱ⁾	11	12	15
Total interest expense	<u>\$ 234</u>	<u>\$ 208</u>	<u>\$ 188</u>

(i) Other primarily includes debt issuance costs, interest expense on financing leases and accretion on deferred and contingent consideration.

12. FAIR VALUE MEASUREMENTS

The Company has categorized its assets and liabilities that are measured at fair value on a recurring and non-recurring basis into a three-level fair value hierarchy, based on the reliability of the inputs used to determine fair value as follows:

- Level 1: refers to fair values determined based on quoted market prices in active markets for identical assets;
- Level 2: refers to fair values estimated using observable market-based inputs or unobservable inputs that are corroborated by market data; and
- Level 3: includes fair values estimated using unobservable inputs that are not corroborated by market data.

The following methods and assumptions were used by the Company in estimating its fair value disclosure for financial instruments:

- Available-for-sale securities are classified as Level 1 because we use quoted market prices in determining the fair value of these securities.
- Market values for our derivative instruments have been used to determine the fair values of forward foreign exchange contracts based on estimated amounts the Company would receive or have to pay to terminate the agreements, taking into account observable information about the current foreign currency forward rates. Such financial instruments are classified as Level 2 in the fair value hierarchy.
- Contingent consideration payable is classified as Level 3, and we estimate fair value based on the likelihood and timing of achieving the relevant milestones of each arrangement, applying a probability assessment to each of the potential outcomes, which at times includes the use of a Monte Carlo simulation, and discounting the probability-weighted payout. Typically, milestones are based on revenue or earnings growth for the acquired business.

The following tables present our assets and liabilities measured at fair value on a recurring basis at December 31, 2019 and December 31, 2018:

		Fair Value Measurements on a Recurring Basis at December 31, 2019			
		Level 1	Level 2	Level 3	Total
Assets:					
<i>Available-for-sale securities:</i>					
Mutual funds / exchange traded funds	Prepaid and other current assets and other non-current assets	\$ 20	\$ —	\$ —	\$ 20
<i>Derivatives:</i>					
Derivative financial instruments ⁽ⁱ⁾	Prepaid and other current assets and other non-current assets	\$ —	\$ 32	\$ —	\$ 32
Liabilities:					
<i>Contingent consideration:</i>					
Contingent consideration ⁽ⁱⁱ⁾	Other current liabilities and other non-current liabilities	\$ —	\$ —	\$ 17	\$ 17
<i>Derivatives:</i>					
Derivative financial instruments ⁽ⁱ⁾	Other current liabilities and other non-current liabilities	\$ —	\$ 3	\$ —	\$ 3

12. FAIR VALUE MEASUREMENTS (continued)

	Balance Sheet Location	Fair Value Measurements on a Recurring Basis at December 31, 2018			
		Level 1	Level 2	Level 3	Total
Assets:					
<i>Available-for-sale securities:</i>					
Mutual funds / exchange traded funds	Prepaid and other current assets and other non-current assets	\$ 18	\$ —	\$ —	\$ 18
<i>Derivatives:</i>					
Derivative financial instruments ⁽ⁱ⁾	Prepaid and other current assets and other non-current assets	\$ —	\$ 5	\$ —	\$ 5
Liabilities:					
<i>Contingent consideration:</i>					
Contingent consideration ⁽ⁱⁱ⁾	Other current liabilities and other non-current liabilities	\$ —	\$ —	\$ 51	\$ 51
<i>Derivatives:</i>					
Derivative financial instruments ⁽ⁱ⁾	Other current liabilities and other non-current liabilities	\$ —	\$ 17	\$ —	\$ 17

(i) See Note 10 to these Consolidated Financial Statements for further information on our derivative instruments.

(ii) Probability weightings are based on our knowledge of the past and planned performance of the acquired entity to which the contingent consideration applies. The weighted-average discount rates used on our material contingent consideration calculations were 10.16% and 9.92% at December 31, 2019 and December 31, 2018, respectively. Using different probability weightings and discount rates could result in an increase or decrease of the contingent consideration payable.

The following table summarizes the change in fair value of the Level 3 liabilities:

Fair Value Measurements Using Significant Unobservable Inputs (Level 3)	December 31, 2019
Balance at December 31, 2018	\$ 51
Obligations assumed	13
Payments	(45)
Realized and unrealized gains	(3)
Foreign exchange	1
Balance at December 31, 2019	\$ 17

There were no significant transfers between Levels 1, 2 or 3 during the years ended December 31, 2019 and 2018.

Fair value information about financial instruments not measured at fair value

The following tables present our liabilities not measured at fair value on a recurring basis at December 31, 2019 and 2018:

	December 31, 2019		December 31, 2018	
	Carrying Value	Fair Value	Carrying Value	Fair Value
Liabilities:				
Current debt	\$ 316	\$ 319	\$ 186	\$ 191
Long-term debt	\$ 5,301	\$ 5,694	\$ 4,389	\$ 4,458

The carrying values of our revolving credit facility, collateralized facility and term loan approximate their fair values. The fair values above are not necessarily indicative of the amounts that the Company would realize upon disposition nor do they indicate the Company's intent or ability to dispose of the financial instruments. The fair values of our respective senior notes are considered Level 2 financial instruments as they are corroborated by observable market data.

13. RETIREMENT BENEFITS***Defined Benefit Plans and Post-retirement Welfare Plans***

Willis Towers Watson sponsors both qualified and non-qualified defined benefit pension plans and other post-retirement welfare ("PRW") plans throughout the world. The majority of our plan assets and obligations are in the U.S. and the U.K. We have also included disclosures related to defined benefit plans in certain other countries, including Canada, France, Germany and Ireland. Together, these disclosed funded and unfunded plans represent 99% of Willis Towers Watson's pension and PRW obligations and are disclosed herein.

13. RETIREMENT BENEFITS (continued)

As part of these obligations, in the U.S., the U.K. and Canada, we have non-qualified plans that provide for the additional pension benefits that would be covered under the qualified plan in the respective country were it not for statutory maximums. The non-qualified plans are unfunded.

The significant plans within each grouping are described below:

United States

Legacy Willis – This plan was frozen in 2009. Approximately one-quarter of the Legacy Willis employees in the United States have a frozen accrued benefit under this plan.

Willis Towers Watson Plan – Substantially all U.S. employees are eligible to participate in this plan. Benefits are provided under a stable value pension plan design. The original stable value design came into effect on January 1, 2012. Plan participants prior to July 1, 2017 earn benefits without having to make employee contributions, and all newly eligible employees after that date are required to contribute 2% of pay on an after-tax basis to participate in the plan.

United Kingdom

Legacy Willis – This plan covers approximately one-third of the Legacy Willis employees in the United Kingdom. The plan is now closed to new entrants.

Legacy Towers Watson – Benefit accruals earned under the Legacy Watson Wyatt defined benefit plan (predominantly pension benefits) ceased on February 28, 2015, although benefits earned prior to January 1, 2008 retain a link to salary until the employee leaves the Company. Benefit accruals earned under the legacy Towers Perrin defined benefit plan (predominantly lump sum benefits) were frozen on March 31, 2008.

Legacy Miller – The plan provides retirement benefits based on members' salaries at the point at which they ceased to accrue benefits under the scheme.

Other

Canada (Legacy Willis and Legacy Towers Watson) – Participants accrue qualified and non-qualified benefits based on a career-average benefit formula. Additionally, participants can choose to make voluntary contributions to purchase enhancements to their pension.

France (Legacy Gras Savoye) – The mandatory retirement indemnity plan is a termination benefit which provides lump sum benefits at retirement. There is no vesting before the retirement date and the benefit formula is determined through the collective bargaining agreement and the labor code. All employees with permanent employment contracts are eligible.

Germany (Legacy Willis and Legacy Towers Watson) – The defined benefit plans are closed to new entrants and include certain legacy employee populations hired before 2011. These benefits are primarily account-based, with some long-service participants continuing to accrue benefits according to grandfathered final-average-pay formulas.

Ireland (Legacy Willis) – The defined benefit plans provide pension benefits for approximately one-third of legacy Willis employees in Ireland and are closed to new entrants. The Company is currently in consultation with members regarding the closure of the defined benefit plans to future accruals effective from December 31, 2019 and the future service retirement provision being on a defined contribution basis.

Ireland (Legacy Towers Watson) – Benefit accruals earned under the scheme's defined benefit plan ceased on May 1, 2015. Benefits earned prior to this date retain a link to salary until the employee leaves the Company.

Post-retirement Welfare Plan

We provide certain healthcare and life insurance benefits for retired participants. The principal plan disclosed herein covers participants in the U.S. who have met certain eligibility requirements. This post-retirement benefit plan was primarily unfunded, with the remaining assets being paid out during the year ended December 31, 2019. Retiree medical benefits provided under our U.S. post-retirement benefit plan was closed to new hires effective January 1, 2011. Life insurance benefits under the plan were frozen with respect to service, eligibility and amounts as of January 1, 2012 for active participants.

13. RETIREMENT BENEFITS (continued)

Retirement benefit costs and liabilities in respect of defined benefit pension plans are assessed in accordance with the advice of professionally qualified actuaries. At December 31, 2019 the most recent actuarial valuations of the four principal defined benefit pension plans (which are not available for public inspection) were January 1, 2019 for the Legacy Willis U.S. scheme, January 1, 2019 for the Willis Towers Watson U.S. scheme, December 31, 2019 for the Legacy Willis U.K. scheme and March 31, 2017 for the Legacy Watson Wyatt U.K. scheme.

Amounts Recognized in our Consolidated Financial Statements

The following schedules provide information concerning the defined benefit pension plans and PRW plan as of and for the years ended December 31, 2019 and 2018:

	2019				2018			
	U.S.	U.K.	Other	PRW	U.S.	U.K.	Other	PRW
Change in Benefit Obligation								
Benefit obligation, beginning of year	\$ 4,187	\$ 3,666	\$ 728	\$ 87	\$ 4,476	\$ 4,165	\$ 822	\$ 123
Service cost	65	14	20	1	66	18	21	1
Interest cost	157	93	18	3	140	95	18	4
Employee contributions	15	—	—	6	14	1	—	7
Actuarial losses/(gains)	535	472	88	5	(313)	(176)	(7)	(3)
Settlements	(6)	(8)	(3)	—	(11)	(152)	(26)	—
Curtailments	—	—	—	—	—	—	(20)	—
Benefits paid	(185)	(140)	(26)	(12)	(185)	(96)	(28)	(14)
Plan amendments	—	—	—	—	—	40	—	(31)
Transfers in	—	—	2	—	—	—	1	—
Foreign currency changes	—	162	15	—	—	(229)	(53)	—
Benefit obligation, end of year	\$ 4,768	\$ 4,259	\$ 842	\$ 90	\$ 4,187	\$ 3,666	\$ 728	\$ 87
Change in Plan Assets								
Fair value of plan assets, beginning of year	\$ 3,403	\$ 4,402	\$ 486	\$ 1	\$ 3,654	\$ 4,910	\$ 562	\$ 2
Actual return on plan assets	557	561	85	—	(157)	(69)	(9)	—
Employer contributions	89	77	31	5	88	85	22	6
Employee contributions	15	—	—	6	14	1	—	7
Settlements	(6)	(8)	(3)	—	(11)	(152)	(26)	—
Benefits paid	(185)	(140)	(26)	(12)	(185)	(96)	(28)	(14)
Transfers in	—	—	2	—	—	—	1	—
Foreign currency adjustment	—	194	13	—	—	(277)	(36)	—
Fair value of plan assets, end of year	\$ 3,873	\$ 5,086	\$ 588	\$ —	\$ 3,403	\$ 4,402	\$ 486	\$ 1
Funded status at end of year	\$ (895)	\$ 827	\$ (254)	\$ (90)	\$ (784)	\$ 736	\$ (242)	\$ (86)
Accumulated Benefit Obligation	\$ 4,768	\$ 4,259	\$ 810	\$ 90	\$ 4,187	\$ 3,666	\$ 698	\$ 87
Components on the Consolidated Balance Sheet								
Pension benefits assets	\$ —	\$ 835	\$ 22	\$ —	\$ —	\$ 745	\$ 17	\$ —
Current liability for pension benefits	\$ (33)	\$ (1)	\$ (6)	\$ (6)	\$ (49)	\$ (1)	\$ (6)	\$ (5)
Non-current liability for pension benefits	\$ (862)	\$ (7)	\$ (270)	\$ (84)	\$ (735)	\$ (8)	\$ (253)	\$ (81)
	\$ (895)	\$ 827	\$ (254)	\$ (90)	\$ (784)	\$ 736	\$ (242)	\$ (86)

For the year ended December 31, 2019, the most significant driver of the increase in benefit obligations for the plans was the higher actuarial losses experienced by all plans coupled with unfavorable foreign exchange effects for the U.K. and Other plans. The pension plans incurred actuarial losses due to a fall in bond yields that resulted in decreases to the discount rates. The actuarial loss in the PRW plan driven by the discount rate reduction was partially offset by gains due to fewer retirees enrolling in medical coverage than had been assumed.

For the year ended December 31, 2018, the benefit obligations reduced primarily from increases in the discount rates for all plans and favorable foreign exchange effects for the U.K. and Other plans. Additionally, for the U.K. and Ireland plans, there were significant lump sum benefits paid from the plans, however the impact of these payments was mitigated in the U.K. by legislation which increased benefits for certain participants. Additionally, in the Netherlands the plan was terminated and liquidated, resulting in a curtailment gain. For the PRW plan, actuarial gains from the increase in the discount rate were partially offset by actuarial losses due to a greater reduction in government reimbursements than had been assumed.

13. RETIREMENT BENEFITS (continued)

Amounts recognized in accumulated other comprehensive loss as of December 31, 2019 and 2018 consist of:

	2019				2018			
	U.S.	U.K.	Other	PRW	U.S.	U.K.	Other	PRW
Net actuarial loss	\$ 982	\$ 1,133	\$ 128	\$ 20	\$ 769	\$ 955	\$ 98	\$ 16
Net prior service gain	—	(61)	—	(27)	—	(76)	—	(31)
Accumulated other comprehensive loss/(income)	\$ 982	\$ 1,072	\$ 128	\$ (7)	\$ 769	\$ 879	\$ 98	\$ (15)

The following table presents the projected benefit obligation and fair value of plan assets for our plans that have a projected benefit obligation in excess of plan assets as of December 31, 2019 and 2018:

	2019			2018		
	U.S.	U.K.	Other	U.S.	U.K.	Other
Projected benefit obligation at end of year	\$ 4,768	\$ 7	\$ 784	\$ 4,187	\$ 9	\$ 672
Fair value of plan assets at end of year	\$ 3,873	\$ —	\$ 509	\$ 3,403	\$ —	\$ 413

The following table presents the projected benefit obligation, accumulated benefit obligation and fair value of plan assets for our plans that have an accumulated benefit obligation in excess of plan assets as of December 31, 2019 and 2018.

	2019			2018		
	U.S.	U.K.	Other	U.S.	U.K.	Other
Projected benefit obligation at end of year	\$ 4,768	\$ 7	\$ 784	\$ 4,187	\$ 9	\$ 672
Accumulated benefit obligation at end of year	\$ 4,768	\$ 7	\$ 752	\$ 4,187	\$ 9	\$ 642
Fair value of plan assets at end of year	\$ 3,873	\$ —	\$ 509	\$ 3,403	\$ —	\$ 413

The components of the net periodic benefit income and other amounts recognized in other comprehensive (income)/loss for the years ended December 31, 2019, 2018 and 2017 for the defined benefit pension and PRW plans are as follows:

	2019				2018				2017			
	U.S.	U.K.	Other	PRW	U.S.	U.K.	Other	PRW	U.S.	U.K.	Other	PRW
Components of net periodic benefit (income)/cost:												
Service cost	\$ 65	\$ 14	\$ 20	\$ 1	\$ 66	\$ 18	\$ 21	\$ 1	\$ 66	\$ 32	\$ 20	\$ —
Interest cost	157	93	18	3	140	95	18	4	139	93	17	4
Expected return on plan assets	(254)	(246)	(29)	—	(273)	(298)	(31)	—	(245)	(284)	(30)	—
Amortization of unrecognized prior service credit	—	(16)	—	(4)	—	(19)	—	—	—	(18)	—	—
Amortization of unrecognized actuarial loss	19	21	2	1	11	45	2	—	13	53	2	—
Settlement	—	—	1	—	1	41	2	—	1	37	1	—
Curtailed gain	—	—	—	—	—	—	(16)	—	—	—	—	—
Net periodic benefit (income)/cost	\$ (13)	\$ (134)	\$ 12	\$ 1	\$ (55)	\$ (118)	\$ (4)	\$ 5	\$ (26)	\$ (87)	\$ 10	\$ 4
Other changes in plan assets and benefit obligations recognized in other comprehensive loss/(income):												
Net actuarial loss/(gain)	\$ 232	\$ 157	\$ 32	\$ 5	\$ 117	\$ 191	\$ 13	\$ (3)	\$ 74	\$ (4)	\$ (7)	\$ 14
Amortization of unrecognized actuarial loss	(19)	(21)	(2)	(1)	(11)	(45)	(2)	—	(13)	(53)	(2)	—
Prior service cost/(credit)	—	—	—	—	—	40	—	(31)	—	—	—	—
Amortization of unrecognized prior service credit	—	16	—	4	—	19	—	—	—	18	—	—
Settlement	—	—	(1)	—	(1)	(41)	(2)	—	(1)	(37)	(1)	—
Curtailed gain	—	—	—	—	—	—	16	—	—	—	—	—
Total recognized in other comprehensive loss/(income)	213	152	29	8	105	164	25	(34)	60	(76)	(10)	14
Total recognized in net periodic benefit (income)/cost and other comprehensive loss/(income)	\$ 200	\$ 18	\$ 41	\$ 9	\$ 50	\$ 46	\$ 21	\$ (29)	\$ 34	\$ (163)	\$ —	\$ 18

During the year ended December 31, 2018, the Company terminated its Netherlands-based defined benefit plan, resulting in the recognition of a non-cash curtailment gain of \$16 million.

13. RETIREMENT BENEFITS (continued)

During the years ended December 31, 2018 and 2017, as a result of past changes in U.K. legislation and the low interest rate environment, the amount of transfer payments from the Legacy Willis U.K. pension plan exceeded the plan's service and interest costs. This triggered settlement accounting which required immediate recognition of a portion of the obligations associated with the plan transfers. Consequently, the Company recognized a non-cash expense of \$40 million and \$36 million for the years ended December 31, 2018 and 2017, respectively.

Assumptions Used in the Valuations of the Defined Benefit Pension Plans and PRW Plan

The determination of the Company's obligations and annual expense under the plans is based on a number of assumptions that, given the longevity of the plans, are long-term in focus. A change in one or a combination of these assumptions could have a material impact on our projected benefit obligation. However, certain of these changes, such as changes in the discount rate and actuarial assumptions, are not recognized immediately in net income, but are instead recorded in other comprehensive income. The accumulated gains and losses not yet recognized in net income are amortized into net income as a component of the net periodic benefit cost/(income) generally based on the average working life expectancy of each of the plan's active participants to the extent that the net gains or losses as of the beginning of the year exceed 10% of the greater of the market-related value of plan assets or the projected benefit obligation. The average remaining service period of participants for the PRW plan is approximately 8.9 years.

The Company considers several factors prior to the start of each financial year when determining the appropriate annual assumptions, including economic forecasts, relevant benchmarks, historical trends, portfolio composition and peer company comparisons. These assumptions, used to determine our pension liabilities and pension expense, are reviewed annually by senior management and changed when appropriate. A discount rate will be changed annually if underlying rates have moved, whereas an expected long-term return on assets will be changed less frequently as longer-term trends in asset returns emerge or long-term target asset allocations are revised. To calculate the discount rate, we use the granular approach to determining service and interest costs. The expected rate of return assumptions for all plans are supported by an analysis of the weighted-average yield expected to be achieved based upon the anticipated makeup of the plans' investments. Other material assumptions include rates of participant mortality, and the expected long-term rate of compensation and pension increases.

The following assumptions were used in the valuations of Willis Towers Watson's defined benefit pension plans and PRW plan. The assumptions presented for the U.S. plans represent the weighted-average of rates for all U.S. plans. The assumptions presented for the U.K. plans represent the weighted-average of rates for the U.K. plans. The assumptions presented for the Other plans represent the weighted-average of rates for the Canada, France, Germany, Ireland, and Netherlands plans. The Netherlands plan is excluded from the 2019 and 2018 disclosures due to the plan termination during 2018.

The assumptions used to determine net periodic benefit cost for the financial years ended December 31, 2019, 2018 and 2017 were as follows:

	Years ended December 31,											
	2019				2018				2017			
	U.S.	U.K.	Other	PRW	U.S.	U.K.	Other	PRW	U.S.	U.K.	Other	PRW
Discount rate - PBO	4.2%	2.8%	2.8%	4.2%	3.6%	2.6%	2.6%	3.5%	4.0%	2.6%	2.7%	4.0%
Discount rate - service cost	4.3%	2.9%	3.0%	4.2%	3.5%	2.7%	2.9%	3.5%	3.9%	2.6%	3.0%	3.9%
Discount rate - interest cost on service cost	3.8%	2.8%	2.9%	3.9%	3.1%	2.5%	2.7%	3.2%	3.2%	2.4%	2.8%	3.5%
Discount rate - interest cost on PBO	3.9%	2.6%	2.5%	3.9%	3.2%	2.3%	2.3%	3.1%	3.4%	2.3%	2.3%	3.3%
Expected long-term rate of return on assets	7.6%	5.6%	6.0%	2.0%	7.6%	6.2%	5.7%	2.0%	7.6%	6.3%	6.1%	2.0%
Rate of increase in compensation levels	4.3%	3.0%	2.3%	N/A	4.3%	3.0%	2.3%	N/A	4.3%	3.2%	2.3%	N/A
Healthcare cost trend												
Initial rate				6.0%				6.5%				7.0%
Ultimate rate				5.0%				5.0%				5.0%
Year reaching ultimate rate				2022				2022				2022

The following tables present the assumptions used in the valuation to determine the projected benefit obligation for the financial years ended December 31, 2019 and 2018:

	December 31, 2019				December 31, 2018			
	U.S.	U.K.	Other	PRW	U.S.	U.K.	Other	PRW
Discount rate	3.3%	2.0%	2.1%	3.2%	4.2%	2.8%	2.8%	4.2%
Rate of increase in compensation levels	4.3%	3.0%	2.3%	N/A	4.3%	3.0%	2.3%	N/A

13. RETIREMENT BENEFITS (continued)

The expected return on plan assets was determined on the basis of the weighted-average of the expected future returns of the various asset classes, using the target allocations shown below. The Company’s pension plan asset target allocations as of December 31, 2019 were as follows:

Asset Category	U.S.		U.K.			Canada	Germany	Ireland	
	Willis	Willis Towers Watson	Willis	Towers Watson	Miller	Towers Watson	Towers Watson	Willis	Towers Watson
Equity securities	30%	23%	18%	4%	19%	40%	35%	30%	40%
Debt securities	33%	33%	64%	23%	21%	50%	60%	29%	30%
Real estate	11%	6%	—%	1%	—%	5%	—%	3%	—%
Other	26%	38%	18%	72%	60%	5%	5%	38%	30%
Total	100%	100%	100%	100%	100%	100%	100%	100%	100%

The Legacy Willis plan in Germany is invested in insurance contracts. Consequently, the asset allocations of the plans are managed by the respective insurer. The Legacy Gras Savoye plan in France is unfunded.

Our investment strategy is designed to generate returns that will reduce the interest rate risk inherent in each of the plan’s benefit obligations and enable the plans to meet their future obligations. The precise amount for which these obligations will be settled depends on future events, including the life expectancy of the plan participants and salary inflation. The obligations are estimated using actuarial assumptions based on the current economic environment.

Each pension plan seeks to achieve total returns sufficient to meet expected future obligations when considered in conjunction with expected future contributions and prudent levels of investment risk and diversification. Each plan’s targeted asset allocation is generally determined through a plan-specific asset-liability modeling study. These comprehensive studies provide an evaluation of the projected status of asset and benefit obligation measures for each plan under a range of both positive and negative factors. The studies include a number of different asset mixes, spanning a range of diversification and potential equity exposures.

In evaluating the strategic asset allocation choices, an emphasis is placed on the long-term characteristics of each individual asset class, such as expected return, volatility of returns and correlations with other asset classes within the portfolios. Consideration is also given to the proper long-term level of risk for each plan, the impact of the volatility and magnitude of plan contributions and costs, and the impact that certain actuarial techniques may have on the plan’s recognition of investment experience.

We monitor investment performance and portfolio characteristics on a quarterly basis to ensure that managers are meeting expectations with respect to their investment approach. There are also various restrictions and controls placed on managers, including prohibition from investing in our stock.

Fair Value of Plan Assets

The fair value hierarchy has three levels based on the reliability of the inputs used to determine fair value:

- Level 1: refers to fair values determined based on quoted market prices in active markets for identical assets;
- Level 2: refers to fair values estimated using observable market-based inputs or unobservable inputs that are corroborated by market data; and
- Level 3: includes fair values estimated using unobservable inputs that are not corroborated by market data.

13. RETIREMENT BENEFITS (continued)

The fair values of our U.S. plan assets by asset category at December 31, 2019 and 2018 are as follows:

	December 31, 2019				December 31, 2018			
	Level 1	Level 2	Level 3	Total	Level 1	Level 2	Level 3	Total
Asset category:								
Cash ⁽ⁱ⁾	\$ 172	\$ —	\$ —	\$ 172	\$ 6	\$ —	\$ —	\$ 6
Short-term securities	—	99	—	99	—	78	—	78
Equity securities	—	—	—	—	156	—	—	156
Government bonds	4	—	—	4	2	—	—	2
Corporate bonds	—	—	—	—	—	354	—	354
Pooled / commingled funds	—	—	—	2,033	—	—	—	1,467
Private equity	—	—	—	487	—	—	—	357
Hedge funds	—	—	—	1,084	—	—	—	984
Total assets	\$ 176	\$ 99	\$ —	\$ 3,879	\$ 164	\$ 432	\$ —	\$ 3,404

(i) At December 31, 2019, consists primarily of cash on deposit with the managers of the hedge funds due to the timing of purchases of units in the funds.

The fair values of our U.K. plan assets by asset category at December 31, 2019 and 2018 are as follows:

	December 31, 2019				December 31, 2018			
	Level 1	Level 2	Level 3	Total	Level 1	Level 2	Level 3	Total
Asset category:								
Cash	\$ 253	\$ —	\$ —	\$ 253	\$ 229	\$ —	\$ —	\$ 229
Government bonds	1,865	—	—	1,865	1,804	—	—	1,804
Corporate bonds	—	741	—	741	—	297	—	297
Other fixed income	—	350	—	350	—	248	—	248
Pooled / commingled funds	—	—	—	1,828	—	—	—	934
Mutual funds	—	—	—	34	—	—	—	16
Private equity	—	—	—	34	—	—	—	33
Derivatives	—	246	—	246	—	96	—	96
Real estate	—	—	—	161	—	—	—	184
Hedge funds	—	—	—	54	—	—	—	1,232
Total assets	\$ 2,118	\$ 1,337	\$ —	\$ 5,566	\$ 2,033	\$ 641	\$ —	\$ 5,073
Liability category:								
Repurchase agreements	—	480	—	480	—	684	—	684
Net assets/(liabilities)	\$ 2,118	\$ 857	\$ —	\$ 5,086	\$ 2,033	\$ (43)	\$ —	\$ 4,389

The fair values of our Other plan assets by asset category at December 31, 2019 and 2018 are as follows:

	December 31, 2019				December 31, 2018			
	Level 1	Level 2	Level 3	Total	Level 1	Level 2	Level 3	Total
Asset category:								
Cash	\$ 2	\$ —	\$ —	\$ 2	\$ 1	\$ —	\$ —	\$ 1
Pooled / commingled funds	—	—	—	444	—	—	—	294
Mutual funds	—	—	—	106	—	—	—	185
Hedge funds	—	—	—	34	—	—	—	4
Insurance contracts	—	—	2	2	—	—	2	2
Total assets	\$ 2	\$ —	\$ 2	\$ 588	\$ 1	\$ —	\$ 2	\$ 486

Our PRW plan invested only in short-term investments and mutual funds and is not included within this fair value hierarchy table for the year ended December 31, 2018. These assets were fully paid out during the year ended December 31, 2019.

13. RETIREMENT BENEFITS (continued)

We evaluate the need to transfer between levels based upon the nature of the financial instrument and size of the transfer relative to the total net assets of the plans. There were no significant transfers between Levels 1, 2 or 3 in the financial years ended December 31, 2019 and 2018.

In accordance with Subtopic 820-10, *Fair Value Measurement and Disclosures*, certain investments that are measured at fair value using the net asset value per share practical expedient have not been classified in the fair value hierarchy. The fair value amounts presented in these tables are intended to permit reconciliation of the fair value hierarchy to the amounts presented in the statements of net assets.

Following is a description of the valuation methodologies used for investments at fair value:

Short-term securities: Valued at the net value of shares held by the Company at year end as reported by the sponsor of the funds.

Equity securities and mutual funds: Valued at the closing price reported on the active market on which the individual securities are traded. Exchange-traded mutual funds are included as Level 1 above.

Government bonds: Valued at the closing price reported in the active market in which the bond is traded.

Corporate bonds: Valued using pricing models maximizing the use of observable inputs for similar securities. This includes basing values on yields currently available on comparable securities of issuers with similar credit ratings.

Other fixed income: Foreign and municipal bonds are valued using pricing models maximizing the use of observable inputs for similar securities.

Pooled / commingled funds and mutual funds: Valued at the net value of shares held by the Company at year end as reported by the manager of the funds. These funds are not exchange-traded and are not reported by level in the tables above.

Derivative investments: Valued at the closing level of the relevant index or security and interest accrual through the valuation date.

Private equity funds, real estate funds, hedge funds: The fair values for these investments are estimated based on the net asset values derived from the latest audited financial statements or most recent capital account statements provided by the private equity fund's investment manager or third-party administrator.

Insurance contracts: The fair values are determined using model-based techniques that include option-pricing models, discounted cash flow models and similar techniques.

Repurchase agreements: Valued as the repurchase obligation which includes an interest rate linked to the underlying fixed interest government bond portfolio. These agreements are short-term in nature (less than one year) and were entered into for the purpose of purchasing additional government bonds.

The following table reconciles the net plan investments to the total fair value of the plan assets:

	December 31,	
	2019	2018
Net assets held in investments	\$ 9,553	\$ 8,279
PRW plan assets	—	1
Net (payable)/receivable for investments purchased	(7)	(1)
Dividend and interest receivable	1	1
Other adjustments	—	12
Fair value of plan assets	<u>\$ 9,547</u>	<u>\$ 8,292</u>

Level 3 investments

As a result of the inherent limitations related to the valuations of the Level 3 investments, due to the unobservable inputs of the underlying funds, the estimated fair values may differ significantly from the values that would have been used had a market for those investments existed.

13. RETIREMENT BENEFITS (continued)

The following table sets forth a summary of changes in the fair value of the plans' Level 3 assets for the financial year ended December 31, 2019:

	Level 3 Roll Forward
Beginning balance at December 31, 2018	\$ 2
Foreign exchange	—
Ending balance at December 31, 2019	<u>\$ 2</u>

Contributions and Benefit Payments

Funding is based on actuarially-determined contributions and is limited to amounts that are currently deductible for tax purposes. Since funding calculations are based on different measurements than those used for accounting purposes, pension contributions are not equal to net periodic pension costs.

The following table sets forth our projected pension contributions to our qualified plans for financial year 2020, as well as the pension contributions to our qualified plans in financial years 2019 and 2018:

	2020 (Projected)	2019 (Actual)	2018 (Actual)
U.S.	\$ 60	\$ 60	\$ 50
U.K.	\$ 80	\$ 76	\$ 84
Other	\$ 23	\$ 22	\$ 14

Expected benefit payments from our defined benefit pension plans to current plan participants, including the effects of their expected future service, as appropriate, are as follows:

Financial Year	Benefit Payments				
	U.S.	U.K.	Other	PRW	Total
2020	\$ 234	\$ 116	\$ 27	\$ 10	\$ 387
2021	264	119	24	10	417
2022	252	121	27	11	411
2023	260	129	28	11	428
2024	268	138	30	11	447
Years 2025 – 2029	1,375	768	171	60	2,374
	<u>\$ 2,653</u>	<u>\$ 1,391</u>	<u>\$ 307</u>	<u>\$ 113</u>	<u>\$ 4,464</u>

Defined Contribution Plans

We have defined contribution plans covering eligible employees in many countries. The most significant plans are in the U.S. and U.K. and are described here.

We have a U.S. defined contribution plan (the 'Plan') covering all eligible employees of Willis Towers Watson. The Plan allows participants to make pre-tax and Roth after-tax contributions and the Company provides a 100% match on the first 1% of employee contributions and a 50% match on the next 5% of employee contributions. Employees vest in the Company match upon 2 years of service. All investment assets of the plan are held in a trust account administered by independent trustees.

The Legacy Towers Watson U.K. pension plan has a money purchase component to which we make core contributions plus additional contributions matching those of the participants up to a maximum rate. Contribution rates depend on the age of the participant and whether or not they arise from salary sacrifice arrangements through which the participant has elected to receive a pension contribution in lieu of additional salary. Effective January 1, 2019, the Company provides a defined contribution plan as part of a master trust, for which we also make core contributions plus additional contributions matching those of the participants up to a maximum rate.

The Legacy Willis U.K. pension plan has a money purchase component to which we make core contributions plus additional contributions matching those of the participants up to a maximum rate. Contribution rates may arise from salary sacrifice arrangements through which the participant has elected to receive a pension contribution in lieu of additional salary.

We had defined contribution plan expense for the years ended December 31, 2019, 2018 and 2017 amounting to \$150 million, \$150 million and \$154 million, respectively.

14. PROVISIONS FOR LIABILITIES

An analysis of movements on provisions for liabilities is as follows:

	Claims, lawsuits and other proceedings ⁽ⁱ⁾	Other provisions ⁽ⁱⁱ⁾	Total
Balance at January 1, 2018	\$ 474	\$ 84	\$ 558
Net provisions made during the year	45	9	54
Utilized in the year	(59)	(3)	(62)
Foreign currency translation adjustment	(5)	(5)	(10)
Balance at December 31, 2018	\$ 455	\$ 85	\$ 540
Net provisions made during the year	39	(1)	38
Provisions disposed of, net of provisions acquired, during the year	—	(1)	(1)
Utilized in the year	(40)	(2)	(42)
Foreign currency translation adjustment	2	—	2
Balance at December 31, 2019	<u>\$ 456</u>	<u>\$ 81</u>	<u>\$ 537</u>

(i) The claims, lawsuits and other proceedings provision includes E&O cases which represents management's assessment of liabilities that may arise from asserted and unasserted claims for alleged errors and omissions that arise in the ordinary course of the Company's business. Where some of the potential liability is recoverable under the Company's external insurance arrangements, the full assessment of the liability is included in the provision with the associated insurance recovery shown separately as an asset.

(ii) The 'Other' category includes amounts that principally relate to post-placement service provisions, property and employee-related provisions.

15. LEASES

On January 1, 2019, the Company adopted ASC 842. The adoption of this new guidance had a significant impact to the amounts and classifications of certain lease-related balances within our consolidated financial statements and accompanying note disclosures. The Company adopted the standard using the modified retrospective approach whereby it recognized a transition adjustment at the effective date of ASC 842, January 1, 2019, rather than at the beginning of the earliest comparative period presented. The adoption of ASC 842 resulted in no adjustment to retained earnings and an additional \$1.2 billion of lease liabilities and \$1.0 billion of right-of-use ('ROU') assets being recognized at January 1, 2019. The initial ROU assets are less than the initial lease liabilities because all operating lease-related balances recognized under previous guidance and reflected on our consolidated balance sheet as of December 31, 2018, such as deferred rent accruals and lease-related intangibles, were reclassified on January 1, 2019 as either an addition or a reduction to the opening ROU asset balance in accordance with the new guidance. We reflected additional deferred tax assets of \$190 million and deferred tax liabilities of \$190 million on the gross lease liabilities and gross ROU assets, respectively (prior to the netting of the historic balances). Existing deferred taxes on operating lease-related balances have been reclassified as either an addition or a reduction to the net deferred tax liabilities related to the ROU assets, and these amounts are not included in any of the above values.

We assessed the transition practical expedients available under the guidance and, in addition to selecting the modified retrospective transition approach as noted above, we made the following elections:

- Practical expedient package – We elected this package, and therefore did not reassess lease classifications for our existing or expired leases, whether any existing or expired contracts contain a lease, or our treatment of any initial direct costs.
- Hindsight practical expedient – As permitted under the transition rules, the Company did not revisit its estimate of lease terms upon transition to ASC 842.
- Short-term lease exemption – We elected this exemption, and therefore did not recognize any right-of-use assets or liabilities for short-term leases (generally defined as having a term of 12 months or less) on our consolidated balance sheet.
- Separation of lease and non-lease components – We elected the practical expedient to not separate the cash flows associated with lease and non-lease components in our property lease accounting and resulting amounts recorded in our consolidated financial statements.

15. LEASES (continued)

The following table presents amounts recorded on our consolidated balance sheet at December 31, 2019, classified as either operating or finance leases. Operating leases are presented separately on our consolidated balance sheet. For the finance leases, the ROU assets are included in fixed assets, net, and the liabilities are classified within other current liabilities or other non-current liabilities.

	Operating Leases	Finance Leases	Total Leases
Right-of-use assets	\$ 968	\$ 10	\$ 978
Current lease liabilities	164	3	167
Long-term lease liabilities	964	22	986

The following table presents amounts recorded on our consolidated profit and loss account for the year ended December 31, 2019:

	Year Ended December 31, 2019
Finance lease cost:	
Amortization of right-of-use assets	\$ 2
Interest on lease liabilities	3
Operating lease cost	191
Short-term lease cost	2
Variable lease cost	51
Sublease income	(16)
Total lease cost, net	<u>\$ 233</u>

The total lease cost is recognized in different locations in our consolidated profit and loss account. Amortization of the finance lease ROU assets is included in depreciation, while the interest cost component of these finance leases is included in interest expense. All other costs are included in other operating expenses. The Company had rent expense for the years ended December 31, 2018 and 2017 of \$243 million and \$261 million, respectively, net of sublease income, related to operating leases classified within other operating expenses on our consolidated profit and loss account.

Cash paid for amounts included in the measurement of lease liabilities for the year ended December 31, 2019, as well as their location in the consolidated statement of cash flows, is as follows:

	Year Ended December 31, 2019
Cash flows from operating activities:	
Operating leases	\$ 205
Finance leases	3
Cash flows used in financing activities:	
Finance leases	2
Total lease payments	<u>\$ 210</u>

Non-cash additions to our operating lease ROU assets were \$124 million during the year ended December 31, 2019, \$19 million of which arose from the acquisition of TRANZACT (see Note 3 to these Consolidated Financial Statements) and \$71 million arose from modifications to existing leases.

15. LEASES (continued)

The following table reflects changes in the net carrying amount of operating lease right-of-use assets for the year ended December 31, 2019:

	Land and buildings
Cost: at January 1, 2019 (on adoption of ASC 842)	984
Additions (excluding remeasurements)	53
Remeasurements	71
Foreign exchange	10
Cost: at December 31, 2019	<u>\$ 1,118</u>
Depreciation: at January 1, 2019	—
Depreciation expense	(148)
Foreign exchange	(2)
Depreciation: at December 31, 2019	<u>\$ (150)</u>
Net book value:	
At December 31, 2018	<u>\$ —</u>
At December 31, 2019	<u>\$ 968</u>

Our operating and finance leases have the following weighted-average terms and discount rates as of December 31, 2019:

	Operating Leases	Finance Leases
Weighted-average term (in years)	8.8	6.0
Weighted-average discount rate	3.6%	12.9%

The maturity of our lease liabilities on an undiscounted basis, including a reconciliation to the total lease liabilities reported on the consolidated balance sheet as of December 31, 2019, is as follows:

	Operating Leases	Finance Leases	Total Leases
2020	\$ 192	\$ 6	\$ 198
2021	172	6	178
2022	156	6	162
2023	146	6	152
2024	130	6	136
Thereafter	524	7	531
Total future lease payments	1,320	37	1,357
Interest	(192)	(12)	(204)
Total lease liabilities	<u>\$ 1,128</u>	<u>\$ 25</u>	<u>\$ 1,153</u>

Prior to the adoption of ASC 842, on December 31, 2018, the maturity of our operating and finance leases on an undiscounted basis was as follows:

	Operating Leases	Finance Leases	Total Leases
2019	\$ 197	\$ 5	\$ 202
2020	180	6	186
2021	159	6	165
2022	142	6	148
2023	131	6	137
Thereafter	542	14	556
Total future lease payments	1,351	43	1,394
Interest	(202)	(14)	(216)
Total lease liabilities	<u>\$ 1,149</u>	<u>\$ 29</u>	<u>\$ 1,178</u>

16. COMMITMENTS AND CONTINGENCIES

Guarantees

Guarantees issued by certain of Willis Towers Watson's subsidiaries with respect to the senior notes and credit facilities are discussed in Note 11 to these Consolidated Financial Statements.

Certain of Willis Towers Watson's subsidiaries have given the landlords of some leasehold properties occupied by the Company in the U.K. and the U.S. guarantees with respect to the performance of the lease obligations of the subsidiary holding the lease. The operating lease obligations subject to such guarantees amounted to \$536 million and \$570 million at December 31, 2019 and 2018, respectively. The capital lease obligations subject to such guarantees amounted to \$6 million and \$7 million at December 31, 2019 and 2018, respectively.

Acquisition liabilities

The Company has deferred and contingent consideration due to be paid on existing acquisitions until 2021 totaling \$38 million at December 31, 2019. Total deferred and contingent consideration paid during the year ended December 31, 2019 was \$57 million.

Other contractual obligations

For certain subsidiaries and associates, the Company has the right to purchase shares (a call option) from co-shareholders at various dates in the future. In addition, the co-shareholders of certain subsidiaries and associates have the right to sell their shares (a put option) to the Company at various dates in the future. Generally, the exercise price of such put options and call options is formula-based (using revenue and earnings) and is designed to reflect fair value. Based on current projections of profitability and exchange rates, and assuming the put options are exercised, the potential amount payable from these options is not expected to exceed \$38 million.

Additionally, the Company has capital commitments with Trident V Parallel Fund, LP, an investment fund managed by Stone Point Capital, and Dowling Capital Partners I, LP. At December 31, 2019, the Company is obligated to make capital contributions of approximately \$2 million, collectively, to these funds.

Indemnification Agreements

Willis Towers Watson has various agreements which provide that it may be obligated to indemnify the other party to the agreement with respect to certain matters. Generally, these indemnification provisions are included in contracts arising in the normal course of business and in connection with the purchase and sale of certain businesses. Although it is not possible to predict the maximum potential amount of future payments that may become due under these indemnification agreements because of the conditional nature of the Company's obligations and the unique facts of each particular agreement, we do not believe that any potential liability that may arise from such indemnity provisions is probable or material.

Legal Proceedings

In the ordinary course of business, the Company is subject to various actual and potential claims, lawsuits and other proceedings. Some of the claims, lawsuits and other proceedings seek damages in amounts which could, if assessed, be significant. We do not expect the impact of claims or demands not described below to be material to the Company's consolidated financial statements. The Company also receives subpoenas in the ordinary course of business and, from time to time, receives requests for information in connection with governmental investigations.

Errors and omissions claims, lawsuits, and other proceedings arising in the ordinary course of business are covered in part by professional indemnity or other appropriate insurance. The terms of this insurance vary by policy year. Regarding self-insured risks, the Company has established provisions which are believed to be adequate in light of current information and legal advice, or, in certain cases, where a range of loss exists, the Company accrues the minimum amount in the range if no amount within the range is a better estimate than any other amount. The Company adjusts such provisions from time to time according to developments. See Note 14 to these Consolidated Financial Statements for the amounts accrued at December 31, 2019 and 2018 in the consolidated balance sheet.

On the basis of current information, the Company does not expect that the actual claims, lawsuits and other proceedings to which it is subject, or potential claims, lawsuits, and other proceedings relating to matters of which it is aware, will ultimately have a material adverse effect on its financial condition, results of operations or liquidity. Nonetheless, given the large or indeterminate amounts sought in certain of these actions, and the inherent unpredictability of litigation and disputes with insurance companies, it is possible that an adverse outcome or settlement in certain matters could, from time to time, have a material adverse effect on the Company's results of operations or cash flows in particular quarterly or annual periods. In addition, given the early stages of some litigation or regulatory proceedings described below, it may not be possible to predict their outcomes or resolutions, and it is possible that any one or more of these events may have a material adverse effect on the Company.

16. COMMITMENTS AND CONTINGENCIES (continued)

The Company provides for contingent liabilities based on ASC 450, *Contingencies*, when it is determined that a liability, inclusive of defense costs, is probable and reasonably estimable. The contingent liabilities recorded are primarily developed actuarially. Litigation is subject to many factors which are difficult to predict so there can be no assurance that in the event of a material unfavorable result in one or more claims, we will not incur material costs.

Merger-Related Securities Litigation

On November 21, 2017, a purported former stockholder of Legacy Towers Watson filed a putative class action complaint on behalf of a putative class consisting of all Legacy Towers Watson stockholders as of October 2, 2015 against the Company, Legacy Towers Watson, Legacy Willis, ValueAct Capital Management ('ValueAct'), and certain current and former directors and officers of Legacy Towers Watson and Legacy Willis (John Haley, Dominic Casserley, and Jeffrey Ubben), in the United States District Court for the Eastern District of Virginia. The complaint asserted claims against certain defendants under Section 14(a) of the Securities Exchange Act of 1934 (the 'Exchange Act') for allegedly false and misleading statements in the proxy statement for the Merger; and against other defendants under Section 20(a) of the Exchange Act for alleged 'control person' liability with respect to such allegedly false and misleading statements. The complaint further contended that the allegedly false and misleading statements caused stockholders of Legacy Towers Watson to accept inadequate Merger consideration. The complaint sought damages in an unspecified amount. On February 20, 2018, the court appointed the Regents of the University of California ('Regents') as Lead Plaintiff and Bernstein Litowitz Berger & Grossman LLP ('Bernstein') as Lead Counsel for the putative class, consolidated all subsequently filed, removed, or transferred actions, and captioned the consolidated action 'In re Willis Towers Watson plc Proxy Litigation,' Master File No. 1:17-cv-1338-AJT-JFA. On March 9, 2018, Lead Plaintiff filed an Amended Complaint. On April 13, 2018, the defendants filed motions to dismiss the Amended Complaint, and, on July 11, 2018, following briefing and argument, the court granted the motions and dismissed the Amended Complaint in its entirety. On July 30, 2018, Lead Plaintiff filed a notice of appeal from the court's July 11, 2018 dismissal order to the United States Court of Appeals for the Fourth Circuit, and, on December 6, 2018, the parties completed briefing on the appeal. On May 8, 2019, the parties argued the appeal, and on August 30, 2019, the Fourth Circuit vacated the dismissal order and remanded the case to the Eastern District of Virginia for further proceedings consistent with its decision. On September 13, 2019, the defendants filed a petition for rehearing by the Fourth Circuit *en banc*, which the Fourth Circuit denied on September 27, 2019. On November 8, 2019, the defendants filed renewed motions to dismiss in the Eastern District of Virginia based upon certain arguments that were advanced in their original motions to dismiss, but undecided by both the district court and the Fourth Circuit. On December 18, 2019, the parties completed briefing on the defendants' renewed motions, and, on December 20, 2019, the court heard argument on the motions. On January 31, 2020, the court denied the motions.

On February 27, 2018 and March 8, 2018, two additional purported former stockholders of Legacy Towers Watson, City of Fort Myers General Employees' Pension Fund ('Fort Myers') and Alaska Laborers-Employers Retirement Trust ('Alaska'), filed putative class action complaints on behalf of a putative class of Legacy Towers Watson stockholders against the former members of the Legacy Towers Watson board of directors, Legacy Towers Watson, Legacy Willis and ValueAct, in the Delaware Court of Chancery, captioned City of Fort Myers General Employees' Pension Fund v. Towers Watson & Co., et al., C.A. No. 2018-0132, and Alaska Laborers-Employers Retirement Trust v. Víctor F. Ganzi, et al., C.A. No. 2018-0155, respectively. Based on similar allegations as the Eastern District of Virginia action described above, the complaints assert claims against the former directors of Legacy Towers Watson for breach of fiduciary duty and against Legacy Willis and ValueAct for aiding and abetting breach of fiduciary duty.

On March 9, 2018, Regents filed a putative class action complaint on behalf of a putative class of Legacy Towers Watson stockholders against the Company, Legacy Willis, ValueAct, and Messrs. Haley, Casserley, and Ubben, in the Delaware Court of Chancery, captioned The Regents of the University of California v. John J. Haley, et al., C.A. No. 2018-0166. Based on similar allegations as the Eastern District of Virginia action described above, the complaint asserts claims against Mr. Haley for breach of fiduciary duty and against all other defendants for aiding and abetting breach of fiduciary duty. Also on March 9, 2018, Regents filed a motion for consolidation of all pending and subsequently filed Delaware Court of Chancery actions, and for appointment as Lead Plaintiff and for the appointment of Bernstein as Lead Counsel for the putative class. On March 29, 2018, Fort Myers and Alaska responded to Regents' motion and cross-moved for appointment as Co-Lead Plaintiffs and for the appointment of their counsel, Grant & Eisenhofer P.A. and Kessler Topaz Meltzer & Check, LLP as Co-Lead Counsel. On April 2, 2018, the court consolidated the Delaware Court of Chancery actions and all related actions subsequently filed in or transferred to the Delaware Court of Chancery. On June 5, 2018, the court denied Regents' motion for appointment of Lead Plaintiff and Lead Counsel and granted Fort Myers' and Alaska's cross-motion. On June 20, 2018, Fort Myers and Alaska designated the complaint previously filed by Alaska (the 'Alaska Complaint') as the operative complaint in the consolidated action. On September 14, 2018, the defendants filed motions to dismiss the Alaska Complaint. On October 31, 2018, Fort Myers and Alaska filed an amended complaint, which, based on similar allegations, asserts claims against the former directors of legacy Towers Watson for breach of fiduciary duty and against ValueAct and Mr. Ubben for aiding and abetting breach of fiduciary duty. On January 11, 2019, the defendants filed motions to dismiss the amended complaint, and on March 29, 2019, the parties completed briefing on the motions. The court heard argument on the motions on April 11, 2019 and, on July 25,

16. COMMITMENTS AND CONTINGENCIES (continued)

2019, dismissed the amended complaint in its entirety. On August 22, 2019, Fort Myers and Alaska filed a notice of appeal from the court's July 25, 2019 dismissal order to the Supreme Court of the State of Delaware. On November 22, 2019, the parties completed briefing on the appeal, which will be argued during the Supreme Court's April 2020 Session.

On October 18, 2018, three additional purported former stockholders of Legacy Towers Watson, Naya Master Fund LP, Naya 174 Fund Limited and Naya Lincoln Park Master Fund Limited (collectively, 'Naya'), filed a complaint against the Company, Legacy Towers Watson, Legacy Willis and John Haley, in the Supreme Court of the State of New York, County of New York, captioned Naya Master Fund LP, et al. v. John J. Haley, et al., Index No. 654968/2018. Based on similar allegations as the Eastern District of Virginia and Delaware actions described above, the complaint asserts claims for common law fraud and negligent misrepresentation. On December 18, 2018, the defendants filed a motion to dismiss the complaint, and on March 21, 2019, the parties completed briefing on the motion. On April 23, 2019, the parties filed a Stipulation and Proposed Order Voluntarily Discontinuing Action providing for the dismissal of the action with prejudice, which the court entered on April 29, 2019.

The defendants dispute the allegations in these actions and intend to defend the lawsuits vigorously. Given the stage of the proceedings, the Company is unable to provide an estimate of the reasonably possible loss or range of loss in respect of the complaints.

Stanford Financial Group

The Company has been named as a defendant in 15 similar lawsuits relating to the collapse of The Stanford Financial Group ('Stanford'), for which Willis of Colorado, Inc. acted as broker of record on certain lines of insurance. The complaints in these actions generally allege that the defendants actively and materially aided Stanford's alleged fraud by providing Stanford with certain letters regarding coverage that they knew would be used to help retain or attract actual or prospective Stanford client investors. The complaints further allege that these letters, which contain statements about Stanford and the insurance policies that the defendants placed for Stanford, contained untruths and omitted material facts and were drafted in this manner to help Stanford promote and sell its allegedly fraudulent certificates of deposit.

The 15 actions are as follows:

- *Troice, et al. v. Willis of Colorado, Inc., et al.*, C.A. No. 3:9-CV-1274-N, was filed on July 2, 2009 in the U.S. District Court for the Northern District of Texas against Willis Group Holdings plc, Willis of Colorado, Inc. and a Willis associate, among others. On April 1, 2011, plaintiffs filed the operative Third Amended Class Action Complaint individually and on behalf of a putative, worldwide class of Stanford investors, adding Willis Limited as a defendant and alleging claims under Texas statutory and common law and seeking damages in excess of \$1 billion, punitive damages and costs. On May 2, 2011, the defendants filed motions to dismiss the Third Amended Class Action Complaint, arguing, *inter alia*, that the plaintiffs' claims are precluded by the Securities Litigation Uniform Standards Act of 1998 ('SLUSA').

On May 10, 2011, the court presiding over the Stanford-related actions in the Northern District of Texas entered an order providing that it would consider the applicability of SLUSA to the Stanford-related actions based on the decision in a separate Stanford action not involving a Willis entity, *Roland v. Green*, Civil Action No. 3:10-CV-0224-N ('Roland'). On August 31, 2011, the court issued its decision in *Roland*, dismissing that action with prejudice under SLUSA.

On October 27, 2011, the court in *Troice* entered an order (i) dismissing with prejudice those claims asserted in the Third Amended Class Action Complaint on a class basis on the grounds set forth in the *Roland* decision discussed above and (ii) dismissing without prejudice those claims asserted in the Third Amended Class Action Complaint on an individual basis. Also on October 27, 2011, the court entered a final judgment in the action.

On October 28, 2011, the plaintiffs in *Troice* filed a notice of appeal to the U.S. Court of Appeals for the Fifth Circuit. Subsequently, *Troice*, *Roland* and a third action captioned *Troice, et al. v. Proskauer Rose LLP*, Civil Action No. 3:09-CV-01600-N, which also was dismissed on the grounds set forth in the *Roland* decision discussed above and on appeal to the U.S. Court of Appeals for the Fifth Circuit, were consolidated for purposes of briefing and oral argument. Following the completion of briefing and oral argument, on March 19, 2012, the Fifth Circuit reversed and remanded the actions. On April 2, 2012, the defendants-appellees filed petitions for rehearing *en banc*. On April 19, 2012, the petitions for rehearing *en banc* were denied. On July 18, 2012, defendants-appellees filed a petition for writ of certiorari with the United States Supreme Court regarding the Fifth Circuit's reversal in *Troice*. On January 18, 2013, the Supreme Court granted our petition. Opening briefs were filed on May 3, 2013 and the Supreme Court heard oral argument on October 7, 2013. On February 26, 2014, the Supreme Court affirmed the Fifth Circuit's decision.

16. COMMITMENTS AND CONTINGENCIES (continued)

On March 19, 2014, the plaintiffs in *Troice* filed a Motion to Defer Resolution of Motions to Dismiss, to Compel Rule 26(f) Conference and For Entry of Scheduling Order.

On March 25, 2014, the parties in *Troice* and the *Janvey, et al. v. Willis of Colorado, Inc., et al.* action discussed below stipulated to the consolidation of the two actions for pre-trial purposes under Rule 42(a) of the Federal Rules of Civil Procedure. On March 28, 2014, the Court ‘so ordered’ that stipulation and, thus, consolidated *Troice* and *Janvey* for pre-trial purposes under Rule 42(a).

On September 16, 2014, the court (a) denied the plaintiffs’ request to defer resolution of the defendants’ motions to dismiss, but granted the plaintiffs’ request to enter a scheduling order; (b) requested the submission of supplemental briefing by all parties on the defendants’ motions to dismiss, which the parties submitted on September 30, 2014; and (c) entered an order setting a schedule for briefing and discovery regarding plaintiffs’ motion for class certification, which schedule, among other things, provided for the submission of the plaintiffs’ motion for class certification (following the completion of briefing and discovery) on April 20, 2015.

On December 15, 2014, the court granted in part and denied in part the defendants’ motions to dismiss. On January 30, 2015, the defendants except Willis Group Holdings plc answered the Third Amended Class Action Complaint.

On April 20, 2015, the plaintiffs filed their motion for class certification, the defendants filed their opposition to plaintiffs’ motion, and the plaintiffs filed their reply in further support of the motion. Pursuant to an agreed stipulation also filed with the court on April 20, 2015, the defendants on June 4, 2015 filed sur-replies in further opposition to the motion. The Court has not yet scheduled a hearing on the motion.

On June 19, 2015, Willis Group Holdings plc filed a motion to dismiss the complaint for lack of personal jurisdiction. On November 17, 2015, Willis Group Holdings plc withdrew the motion.

On March 31, 2016, the parties in the *Troice* and *Janvey* actions entered into a settlement in principle that is described in more detail below.

- *Ranni v. Willis of Colorado, Inc., et al., C.A. No. 9-22085*, was filed on July 17, 2009 against Willis Group Holdings plc and Willis of Colorado, Inc. in the U.S. District Court for the Southern District of Florida. The complaint was filed on behalf of a putative class of Venezuelan and other South American Stanford investors and alleges claims under Section 10(b) of the Securities Exchange Act of 1934 (and Rule 10b-5 thereunder) and Florida statutory and common law and seeks damages in an amount to be determined at trial. On October 6, 2009, *Ranni* was transferred, for consolidation or coordination with other Stanford-related actions (including *Troice*), to the Northern District of Texas by the U.S. Judicial Panel on Multidistrict Litigation (the ‘JPML’). The defendants have not yet responded to the complaint in *Ranni*. On August 26, 2014, the plaintiff filed a notice of voluntary dismissal of the action without prejudice.
- *Canabal, et al. v. Willis of Colorado, Inc., et al., C.A. No. 3:9-CV-1474-D*, was filed on August 6, 2009 against Willis Group Holdings plc, Willis of Colorado, Inc. and the same Willis associate named as a defendant in *Troice*, among others, also in the Northern District of Texas. The complaint was filed individually and on behalf of a putative class of Venezuelan Stanford investors, alleged claims under Texas statutory and common law and sought damages in excess of \$1 billion, punitive damages, attorneys’ fees and costs. On December 18, 2009, the parties in *Troice* and *Canabal* stipulated to the consolidation of those actions (under the *Troice* civil action number), and, on December 31, 2009, the plaintiffs in *Canabal* filed a notice of dismissal, dismissing the action without prejudice.
- *Rupert, et al. v. Winter, et al., Case No. 2009C115137*, was filed on September 14, 2009 on behalf of 97 Stanford investors against Willis Group Holdings plc, Willis of Colorado, Inc. and the same Willis associate, among others, in Texas state court (Bexar County). The complaint alleges claims under the Securities Act of 1933, Texas and Colorado statutory law and Texas common law and seeks special, consequential and treble damages of more than \$300 million, attorneys’ fees and costs. On October 20, 2009, certain defendants, including Willis of Colorado, Inc., (i) removed *Rupert* to the U.S. District Court for the Western District of Texas, (ii) notified the JPML of the pendency of this related action and (iii) moved to stay the action pending a determination by the JPML as to whether it should be transferred to the Northern District of Texas for consolidation or coordination with the other Stanford-related actions. On April 1, 2010, the JPML issued a final transfer order for the transfer of *Rupert* to the Northern District of Texas. On January 24, 2012, the court remanded *Rupert* to Texas state court (Bexar County), but stayed the action until further order of the court. On August 13, 2012, the plaintiffs filed a motion to lift the stay, which motion was denied by the court on September 16, 2014. On October 10, 2014, the plaintiffs appealed the court’s denial of their motion to lift the stay to the U.S. Court of Appeals for the Fifth Circuit. On January 5, 2015, the Fifth Circuit consolidated the appeal with the appeal in the *Rishmague, et ano. v. Winter, et al.* action discussed below, and the consolidated appeal, was

16. COMMITMENTS AND CONTINGENCIES (continued)

fully briefed as of March 24, 2015. Oral argument on the consolidated appeal was held on September 2, 2015. On September 16, 2015, the Fifth Circuit affirmed. The defendants have not yet responded to the complaint in *Rupert*.

- *Casanova, et al. v. Willis of Colorado, Inc., et al.*, C.A. No. 3:10-CV-1862-O, was filed on September 16, 2010 on behalf of seven Stanford investors against Willis Group Holdings plc, Willis Limited, Willis of Colorado, Inc. and the same Willis associate, among others, also in the Northern District of Texas. The complaint alleges claims under Texas statutory and common law and seeks actual damages in excess of \$5 million, punitive damages, attorneys' fees and costs. On February 13, 2015, the parties filed an Agreed Motion for Partial Dismissal pursuant to which they agreed to the dismissal of certain claims pursuant to the motion to dismiss decisions in the *Troice* action discussed above and the *Janvey* action discussed below. Also on February 13, 2015, the defendants except Willis Group Holdings plc answered the complaint in the *Casanova* action. On June 19, 2015, Willis Group Holdings plc filed a motion to dismiss the complaint for lack of personal jurisdiction. Plaintiffs have not opposed the motion.
- *Rishmague, et ano. v. Winter, et al.*, Case No. 2011CI2585, was filed on March 11, 2011 on behalf of two Stanford investors, individually and as representatives of certain trusts, against Willis Group Holdings plc, Willis of Colorado, Inc., Willis of Texas, Inc. and the same Willis associate, among others, in Texas state court (Bexar County). The complaint alleges claims under Texas and Colorado statutory law and Texas common law and seeks special, consequential and treble damages of more than \$37 million and attorneys' fees and costs. On April 11, 2011, certain defendants, including Willis of Colorado, Inc., (i) removed *Rishmague* to the Western District of Texas, (ii) notified the JPML of the pendency of this related action and (iii) moved to stay the action pending a determination by the JPML as to whether it should be transferred to the Northern District of Texas for consolidation or coordination with the other Stanford-related actions. On August 8, 2011, the JPML issued a final transfer order for the transfer of *Rishmague* to the Northern District of Texas, where it is currently pending. On August 13, 2012, the plaintiffs joined with the plaintiffs in the *Rupert* action in their motion to lift the court's stay of the *Rupert* action. On September 9, 2014, the court remanded *Rishmague* to Texas state court (Bexar County), but stayed the action until further order of the court and denied the plaintiffs' motion to lift the stay. On October 10, 2014, the plaintiffs appealed the court's denial of their motion to lift the stay to the Fifth Circuit. On January 5, 2015, the Fifth Circuit consolidated the appeal with the appeal in the *Rupert* action, and the consolidated appeal was fully briefed as of March 24, 2015. Oral argument on the consolidated appeal was held on September 2, 2015. On September 16, 2015, the Fifth Circuit affirmed. The defendants have not yet responded to the complaint in *Rishmague*.
- *MacArthur v. Winter, et al.*, Case No. 2013-07840, was filed on February 8, 2013 on behalf of two Stanford investors against Willis Group Holdings plc, Willis of Colorado, Inc., Willis of Texas, Inc. and the same Willis associate, among others, in Texas state court (Harris County). The complaint alleges claims under Texas and Colorado statutory law and Texas common law and seeks actual, special, consequential and treble damages of approximately \$4 million and attorneys' fees and costs. On March 29, 2013, Willis of Colorado, Inc. and Willis of Texas, Inc. (i) removed *MacArthur* to the U.S. District Court for the Southern District of Texas and (ii) notified the JPML of the pendency of this related action. On April 2, 2013, Willis of Colorado, Inc. and Willis of Texas, Inc. filed a motion in the Southern District of Texas to stay the action pending a determination by the JPML as to whether it should be transferred to the Northern District of Texas for consolidation or coordination with the other Stanford-related actions. Also on April 2, 2013, the court presiding over *MacArthur* in the Southern District of Texas transferred the action to the Northern District of Texas for consolidation or coordination with the other Stanford-related actions. On September 29, 2014, the parties stipulated to the remand (to Texas state court (Harris County)) and stay of *MacArthur* until further order of the court (in accordance with the court's September 9, 2014 decision in *Rishmague* (discussed above)), which stipulation was 'so ordered' by the court on October 14, 2014. The defendants have not yet responded to the complaint in *MacArthur*.
- *Florida suits*: On February 14, 2013, five lawsuits were filed against Willis Group Holdings plc, Willis Limited and Willis of Colorado, Inc. in Florida state court (Miami-Dade County), alleging violations of Florida common law. The five suits are: (1) *Barbar, et al. v. Willis Group Holdings Public Limited Company, et al.*, Case No. 13-05666CA27, filed on behalf of 35 Stanford investors seeking compensatory damages in excess of \$30 million; (2) *de Gadala-Maria, et al. v. Willis Group Holdings Public Limited Company, et al.*, Case No. 13-05669CA30, filed on behalf of 64 Stanford investors seeking compensatory damages in excess of \$83.5 million; (3) *Ranni, et ano. v. Willis Group Holdings Public Limited Company, et al.*, Case No. 13-05673CA06, filed on behalf of two Stanford investors seeking compensatory damages in excess of \$3 million; (4) *Tisminesky, et al. v. Willis Group Holdings Public Limited Company, et al.*, Case No. 13-05676CA09, filed on behalf of 11 Stanford investors seeking compensatory damages in excess of \$6.5 million; and (5) *Zacarias, et al. v. Willis Group Holdings Public Limited Company, et al.*, Case No. 13-05678CA11, filed on behalf of 10 Stanford investors seeking compensatory damages in excess of \$12.5 million. On June 3, 2013, Willis of Colorado, Inc. removed all five cases to the Southern District of Florida and, on June 4, 2013, notified the JPML of the pendency of these related actions. On June 10, 2013, the court in *Tisminesky* issued an order *sua sponte* staying and administratively closing that action pending a determination by the JPML as to whether it

16. COMMITMENTS AND CONTINGENCIES (continued)

should be transferred to the Northern District of Texas for consolidation and coordination with the other Stanford-related actions. On June 11, 2013, Willis of Colorado, Inc. moved to stay the other four actions pending the JPML's transfer decision. On June 20, 2013, the JPML issued a conditional transfer order for the transfer of the five actions to the Northern District of Texas, the transmittal of which was stayed for seven days to allow for any opposition to be filed. On June 28, 2013, with no opposition having been filed, the JPML lifted the stay, enabling the transfer to go forward.

On September 30, 2014, the court denied the plaintiffs' motion to remand in *Zacarias*, and, on October 3, 2014, the court denied the plaintiffs' motions to remand in *Tisminesky* and *de Gadala Maria*. On December 3, 2014 and March 3, 2015, the court granted the plaintiffs' motions to remand in *Barbar* and *Ranni*, respectively, remanded both actions to Florida state court (Miami-Dade County) and stayed both actions until further order of the court. On January 2, 2015 and April 1, 2015, the plaintiffs in *Barbar* and *Ranni*, respectively, appealed the court's December 3, 2014 and March 3, 2015 decisions to the Fifth Circuit. On April 22, 2015 and July 22, 2015, respectively, the Fifth Circuit dismissed the *Barbar* and *Ranni* appeals *sua sponte* for lack of jurisdiction. The defendants have not yet responded to the complaints in *Ranni* or *Barbar*.

On April 1, 2015, the defendants except Willis Group Holdings plc filed motions to dismiss the complaints in *Zacarias*, *Tisminesky* and *de Gadala-Maria*. On June 19, 2015, Willis Group Holdings plc filed motions to dismiss the complaints in *Zacarias*, *Tisminesky* and *de Gadala-Maria* for lack of personal jurisdiction. On July 15, 2015, the court dismissed the complaint in *Zacarias* in its entirety with leave to replead within 21 days. On July 21, 2015, the court dismissed the complaints in *Tisminesky* and *de Gadala-Maria* in their entirety with leave to replead within 21 days. On August 6, 2015, the plaintiffs in *Zacarias*, *Tisminesky* and *de Gadala-Maria* filed amended complaints (in which, among other things, Willis Group Holdings plc was no longer named as a defendant). On September 11, 2015, the defendants filed motions to dismiss the amended complaints. The motions await disposition by the court.

- *Janvey, et al. v. Willis of Colorado, Inc., et al.*, Case No. 3:13-CV-03980-D, was filed on October 1, 2013 also in the Northern District of Texas against Willis Group Holdings plc, Willis Limited, Willis North America Inc., Willis of Colorado, Inc. and the same Willis associate. The complaint was filed (i) by Ralph S. Janvey, in his capacity as Court-Appointed Receiver for the Stanford Receivership Estate, and the Official Stanford Investors Committee (the 'OSIC') against all defendants and (ii) on behalf of a putative, worldwide class of Stanford investors against Willis North America Inc. Plaintiffs Janvey and the OSIC allege claims under Texas common law and the court's Amended Order Appointing Receiver, and the putative class plaintiffs allege claims under Texas statutory and common law. Plaintiffs seek actual damages in excess of \$1 billion, punitive damages and costs. As alleged by the Stanford Receiver, the total amount of collective losses allegedly sustained by all investors in Stanford certificates of deposit is approximately \$4.6 billion.

On November 15, 2013, plaintiffs in *Janvey* filed the operative First Amended Complaint, which added certain defendants unaffiliated with Willis. On February 28, 2014, the defendants filed motions to dismiss the First Amended Complaint, which motions, other than with respect to Willis Group Holding plc's motion to dismiss for lack of personal jurisdiction, were granted in part and denied in part by the court on December 5, 2014. On December 22, 2014, Willis filed a motion to amend the court's December 5 order to certify an interlocutory appeal to the Fifth Circuit, and, on December 23, 2014, Willis filed a motion to amend and, to the extent necessary, reconsider the court's December 5 order. On January 16, 2015, the defendants answered the First Amended Complaint. On January 28, 2015, the court denied Willis's motion to amend the court's December 5 order to certify an interlocutory appeal to the Fifth Circuit. On February 4, 2015, the court granted Willis's motion to amend and, to the extent necessary, reconsider the December 5 order.

As discussed above, on March 25, 2014, the parties in *Troice* and *Janvey* stipulated to the consolidation of the two actions for pre-trial purposes under Rule 42(a) of the Federal Rules of Civil Procedure. On March 28, 2014, the Court 'so ordered' that stipulation and, thus, consolidated *Troice* and *Janvey* for pre-trial purposes under Rule 42(a).

On January 26, 2015, the court entered an order setting a schedule for briefing and discovery regarding the plaintiffs' motion for class certification, which schedule, among other things, provided for the submission of the plaintiffs' motion for class certification (following the completion of briefing and discovery) on July 20, 2015. By letter dated March 4, 2015, the parties requested that the court consolidate the scheduling orders entered in *Troice* and *Janvey* to provide for a class certification submission date of April 20, 2015 in both cases. On March 6, 2015, the court entered an order consolidating the scheduling orders in *Troice* and *Janvey*, providing for a class certification submission date of April 20, 2015 in both cases, and vacating the July 20, 2015 class certification submission date in the original *Janvey* scheduling order.

16. COMMITMENTS AND CONTINGENCIES (continued)

On November 17, 2015, Willis Group Holdings plc withdrew its motion to dismiss for lack of personal jurisdiction.

On March 31, 2016, the parties in the *Troice* and *Janvey* actions entered into a settlement in principle that is described in more detail below.

- *Martin v. Willis of Colorado, Inc., et al.*, Case No. 201652115, was filed on August 5, 2016, on behalf of one Stanford investor against Willis Group Holdings plc, Willis Limited, Willis of Colorado, Inc. and the same Willis associate in Texas state court (Harris County). The complaint alleges claims under Texas statutory and common law and seeks actual damages of less than \$100,000, exemplary damages, attorneys' fees and costs. On September 12, 2016, the plaintiff filed an amended complaint, which added five more Stanford investors as plaintiffs and seeks damages in excess of \$1 million. The defendants have not yet responded to the amended complaint in *Martin*.
- *Abel, et al. v. Willis of Colorado, Inc., et al.*, C.A. No. 3:16-cv-2601, was filed on September 12, 2016, on behalf of more than 300 Stanford investors against Willis Group Holdings plc, Willis Limited, Willis of Colorado, Inc. and the same Willis associate, also in the Northern District of Texas. The complaint alleges claims under Texas statutory and common law and seeks actual damages in excess of \$135 million, exemplary damages, attorneys' fees and costs. On November 10, 2016, the plaintiffs filed an amended complaint, which, among other things, added several more Stanford investors as plaintiffs. The defendants have not yet responded to the complaint in *Abel*.

The plaintiffs in *Janvey* and *Troice* and the other actions above seek overlapping damages, representing either the entirety or a portion of the total alleged collective losses incurred by investors in Stanford certificates of deposit, notwithstanding the fact that Legacy Willis acted as broker of record for only a portion of time that Stanford issued certificates of deposit. In the fourth quarter of 2015, the Company recognized a \$70 million litigation provision for loss contingencies relating to the Stanford matters based on its ongoing review of a variety of factors as required by accounting standards.

On March 31, 2016, the Company entered into a settlement in principle for \$120 million relating to this litigation, and increased its provisions by \$50 million during that quarter for this adjusting subsequent event in the Consolidated Financial Statements for 2015. This increase in the litigation provision was recognized in Annual Form 10-K for the following year, 2016. Further details on this settlement in principle are given below.

The settlement is contingent on a number of conditions, including court approval of the settlement and a bar order prohibiting any continued or future litigation against Willis related to Stanford, which may not be given. Therefore, the ultimate resolution of these matters may differ from the amount provided for. The Company continues to dispute the allegations and, to the extent litigation proceeds, to defend the lawsuits vigorously.

Settlement. On March 31, 2016, the Company entered into a settlement in principle, as reflected in a Settlement Term Sheet, relating to the Stanford litigation matter. The Company agreed to the Settlement Term Sheet to eliminate the distraction, burden, expense and uncertainty of further litigation. In particular, the settlement and the related bar orders described below, if upheld through any appeals, would enable the Company (a newly-combined firm) to conduct itself with the bar orders' protection from the continued overhang of matters alleged to have occurred approximately a decade ago. Further, the Settlement Term Sheet provided that the parties understood and agreed that there is no admission of liability or wrongdoing by the Company. The Company expressly denies any liability or wrongdoing with respect to the matters alleged in the Stanford litigation.

On or about August 31, 2016, the parties to the settlement signed a formal Settlement Agreement memorializing the terms of the settlement as originally set forth in the Settlement Term Sheet. The parties to the Settlement Agreement are Ralph S. Janvey (in his capacity as the Court-appointed receiver (the 'Receiver') for The Stanford Financial Group and its affiliated entities in receivership (collectively, 'Stanford')), the Official Stanford Investors Committee, Samuel Troice, Martha Diaz, Paula Gilly-Flores, Punga Punga Financial, Ltd., Manuel Canabal, Daniel Gomez Ferreiro and Promotora Villa Marina, C.A. (collectively, 'Plaintiffs'), on the one hand, and Willis Towers Watson Public Limited Company (formerly Willis Group Holdings Public Limited Company), Willis Limited, Willis North America Inc., Willis of Colorado, Inc. and the Willis associate referenced above (collectively, 'Defendants'), on the other hand. Under the terms of the Settlement Agreement, the parties agreed to settle and dismiss the *Janvey* and *Troice* actions (collectively, the 'Actions') and all current or future claims arising from or related to Stanford in exchange for a one-time cash payment to the Receiver by the Company of \$120 million to be distributed to all Stanford investors who have claims recognized by the Receiver pursuant to the distribution plan in place at the time the payment is made.

The Settlement Agreement also provides the parties' agreement to seek the Court's entry of bar orders prohibiting any continued or future litigation against the Defendants and their related parties of claims relating to Stanford, whether asserted to date or not. The terms of the bar orders therefore would prohibit all Stanford-related litigation described above, and not just the Actions, but including any pending matters and any actions that may be brought in the future. Final Court approval of these bar orders is a condition of the settlement.

16. COMMITMENTS AND CONTINGENCIES (continued)

On September 7, 2016, Plaintiffs filed with the Court a motion to approve the settlement. On October 19, 2016, the Court preliminarily approved the settlement. Several of the plaintiffs in the other actions above objected to the settlement, and a hearing to consider final approval of the settlement was held on January 20, 2017, after which the Court reserved decision. On August 23, 2017, the Court approved the settlement, including the bar orders. Several of the objectors appealed the settlement approval and bar orders to the Fifth Circuit. Oral argument on the appeals was heard on December 3, 2018, and, on July 22, 2019, the Fifth Circuit affirmed the approval of the settlement, including the bar orders. On August 5, 2019, certain of the plaintiff-appellants filed a petition for rehearing by the Fifth Circuit *en banc* (the ‘Petition’). On August 19, 2019, the Fifth Circuit requested a response to the Petition. On August 29, 2019, the Receiver filed a response to the Petition. On December 19, 2019, the Fifth Circuit granted the Petition (treating it as a petition for panel rehearing), withdrew its July 22, 2019 opinion, and substituted a new opinion that also affirmed the approval of the settlement, including the bar orders. On January 2, 2020, certain of the plaintiff-appellants filed another petition for rehearing by the Fifth Circuit *en banc* (the ‘Second Petition’), in which the other plaintiff-appellants joined. On January 21, 2020, the Fifth Circuit denied the Second Petition.

The Company will not make the \$120 million settlement payment until the settlement is not subject to any further appeal.

Aviation Broking Competition Investigations

In April 2017, the Financial Conduct Authority (‘FCA’) informed Willis Limited, our U.K. broking subsidiary, that it had opened a formal investigation into possible agreements/concerted practices in the aviation broking sector.

In October 2017, the European Commission (‘Commission’) disclosed to us that it has initiated civil investigation proceedings in respect of a suspected infringement of E.U. competition rules involving several broking firms, including our principal U.K. broking subsidiary and one of its parent entities. In particular, the Commission has stated that the civil proceedings concern 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. The initiation of proceedings does not mean there has been a finding of infringement, merely that the Commission will investigate the case. We are providing information to the Commission as requested.

When the Commission initiated these proceedings, the FCA closed its related competition investigation, but still retained jurisdiction over broking regulatory matters arising from this conduct. In early 2018, the FCA advised that it will not be taking enforcement action against Willis Limited in connection with any such broking regulatory matters.

In May 2018, the Korea Fair Trade Commission (‘KFTC’) disclosed to us that it is investigating alleged cartels in the insurance broking industry. The KFTC has since requested information related to, among other topics, the aviation and aerospace insurance brokerage market and exchanges of information between brokers about insurance policies. In January 2020, the KFTC advised us that it has decided to conclude the examination procedure for the case (subject to being re-opened if additional evidence is identified later).

In January 2019, the Brazil Conselho Administrativo de Defesa Economica (‘CADE’) launched an administrative proceeding to investigate alleged sharing of competitive and commercially sensitive information in the insurance and reinsurance brokerage industry for aviation and aerospace and related ancillary services. The CADE identified 11 entities under investigation, including Willis Group Limited, one of our U.K. subsidiaries.

Given the status of the investigations by the Commission and CADE, the Company is currently unable to assess the terms on which they will be resolved, or any other regulatory matter or civil claims emanating from the conduct being investigated, will be resolved, and thus is unable to provide an estimate of the reasonably possible loss or range of loss.

U.K. Investment Consulting Investigation

In September 2017, the FCA announced that it would make a referral with respect to the investment consulting industry to the U.K. Competition & Markets Authority (the ‘CMA’).

The CMA released its final report on December 12, 2018, finding that there is an adverse effect on competition. To address these findings, the CMA has set out certain remedies, including mandatory tendering when trustees first purchase fiduciary management services, the reporting of investment performance to customers using a set of common standards, transparency in reporting of fees in fiduciary management and the expansion of the FCA’s regulatory perimeter to include the main activities of investment consultancy and fiduciary management providers. The Company is generally supportive of these proposed remedies. The CMA issued its final order setting out these remedies on June 10, 2019. The Company is now in the process of implementing these remedies. The costs associated with these remedies are not expected to have a material impact on the Company’s consolidated financial statements.

17. SUPPLEMENTARY INFORMATION FOR CERTAIN BALANCE SHEET ACCOUNTS

Additional details of specific balance sheet accounts are detailed below.

Other current assets consist of the following:

	December 31, 2019	December 31, 2018
Prepayments and accrued income	\$ 145	\$ 136
Deferred contract costs	101	102
Derivatives and investments	49	25
Deferred compensation plan assets	18	18
Retention incentives	11	5
Corporate income and other taxes	56	61
Restricted cash	8	—
Acquired renewal commissions receivable	25	—
Other current assets	112	57
Total prepaid and other current assets	<u>\$ 525</u>	<u>\$ 404</u>

Other non-current assets consist of the following:

	December 31, 2019	December 31, 2018
Prepayments and accrued income	\$ 12	\$ 14
Deferred contract costs	76	46
Deferred compensation plan assets	150	125
Accounts receivable, net	30	20
Acquired renewal commissions receivable	125	—
Other investments	23	7
Insurance recovery receivables	119	86
Non-current contract assets	105	3
Other non-current assets	97	84
Total other non-current assets	<u>\$ 737</u>	<u>\$ 385</u>

Deferred revenue and accrued expenses consist of the following:

	December 31, 2019	December 31, 2018
Accounts payable, accrued liabilities and deferred income	\$ 856	\$ 691
Accrued discretionary and incentive compensation	727	758
Accrued vacation	137	111
Other employee-related liabilities	64	87
Total deferred revenue and accrued expenses	<u>\$ 1,784</u>	<u>\$ 1,647</u>

17. SUPPLEMENTARY INFORMATION FOR CERTAIN BALANCE SHEET ACCOUNTS (continued)

Other current liabilities consist of the following:

	December 31, 2019	December 31, 2018
Dividends payable	\$ 100	\$ 87
Other taxes payable	53	48
Interest payable	65	59
Deferred compensation plan liabilities	14	14
Contingent and deferred consideration on acquisitions	12	61
Payroll-related liabilities	216	210
Derivatives	3	13
Third party commissions	179	169
Other current liabilities	75	122
Total other current liabilities	<u>\$ 717</u>	<u>\$ 783</u>

Other non-current liabilities consist of the following:

	December 31, 2019	December 31, 2018
Incentives from lessors	\$ —	\$ 120
Deferred compensation plan liability	150	125
Contingent and deferred consideration on acquisitions	26	22
Liabilities for uncertain tax positions	48	46
Finance leases	22	26
Other non-current liabilities	89	90
Total other non-current liabilities	<u>\$ 335</u>	<u>\$ 429</u>

18. EMPLOYEES

The average numbers of people, including Executive Directors, employed by the Company are approximated below:

	Years ended December 31,		
	2019 (average number)	2018 (average number)	2017 (average number)
Human Capital and Benefits	14,300	14,200	12,800
Corporate Risk and Broking	13,500	13,800	14,600
Investment, Risk and Reinsurance	3,900	3,800	4,900
Benefits Delivery and Administration	4,900	4,000	3,200
Total operating segments	36,600	35,800	35,500
Corporate and Other	7,800	8,000	7,900
Total average number of employees for the year	<u>44,400</u>	<u>43,800</u>	<u>43,400</u>

18. EMPLOYEES (continued)

Staff costs were as follows:

	Years ended December 31,		
	2019	2018	2017
Salaries and other compensation ⁽ⁱ⁾	\$ 4,513	\$ 4,421	\$ 4,240
Share-based compensation	74	50	67
Severance costs	35	13	15
Social security costs	378	372	360
Retirement benefits — defined benefit plan expense	99	117	131
Retirement benefits — defined contribution plan expense	150	150	154
Total salaries and benefits expense	\$ 5,249	\$ 5,123	\$ 4,967
Restructuring costs termination benefits	—	—	46
Transaction and integration expenses	—	1	38
Total salaries and benefits expense, including termination benefits	\$ 5,249	\$ 5,124	\$ 5,051
Staff costs capitalized	110	86	102
Total staff costs	\$ 5,359	\$ 5,210	\$ 5,153

- (i) Salaries and other compensation includes: \$3,355 million salaries and directors' fees, \$1,153 million benefits and incentive awards and \$5 million amortization of cash retention awards (2018: \$3,270 million, \$1,146 million and \$5 million, respectively; 2017: \$3,131 million, \$1,103 million and \$6 million, respectively).

19. DIRECTORS' AND AUDITOR'S REMUNERATION

Directors' remuneration set forth below represents remuneration for services to Willis Towers Watson.

Directors' remuneration in respect of services to the Parent Company are included and also disclosed in Note 4 to the Parent Company Financial Statements.

An analysis of directors' remuneration is as follows:

	Years ended December 31,		
	2019	2018	2017
Aggregate emoluments in respect of qualifying services ^{(i) (ii)}			
Director services ⁽ⁱⁱⁱ⁾	\$ 3	\$ 3	\$ 4
Managerial services ^(iv)	52	4	12
Total emoluments	\$ 55	\$ 7	\$ 16
Defined contribution retirement scheme contributions — managerial services ^{(iv) (v)}	2	1	—
Total directors' remuneration ^{(vi) (vii) (viii) (ix)}	\$ 57	\$ 8	\$ 16

- (i) Emoluments information includes salaries, fees, bonuses, any sums paid by way of expense allowances in so far as those sums are chargeable to income tax, and the estimated money value of any other benefits received otherwise than in cash, including vested share awards but excluding the value of any unvested share awards.
- (ii) The Company reimburses directors for reasonable travel and related expenses incurred in connection with their participation in Board or Board committee meetings. The Company also hired accountants in Dublin, Ireland to prepare the directors' Irish 2019 tax returns, whose fees are expected to be approximately €20,000 in the aggregate.
- (iii) Includes director's fees of £50,000 received by Brendan R. O'Neill in connection with his appointment as a director of a subsidiary of the Company (2018: £55,000; 2017: £43,333).
- (iv) In 2019, 2018 and 2017, directors' remuneration for managerial services represents remuneration of John J. Haley (CEO) for services to the Company.
- (v) Defined contribution retirement scheme contributions treated as paid or payable during 2019 were \$1,927,165, in respect of the qualifying managerial services of one director (2018: \$808,148, in respect of one director; 2017: \$241,030, in respect of one director). The increase in the actuarial present value of accumulated benefits under defined benefit retirement schemes during 2019 was \$181,015 (2018: \$nil; 2017: \$127,370), in respect of the qualifying managerial services of one director).
- (vi) In aggregate, directors made \$nil gains on the exercise of share options during 2019, 2018 and 2017.
- (vii) The amounts shown include all amounts paid or payable to a person connected with a director.
- (viii) In 2019, 2018 and 2017, in respect of qualifying managerial services, there were no long-term incentive scheme amounts (excluding share options), share options or termination payments.
- (ix) In 2019, 2018 and 2017 no additional amounts were paid or payable to past directors (i.e. directors who resigned or ceased to hold office before the start of the respective financial year) in respect of termination or retirement benefits.

19. DIRECTORS' AND AUDITOR'S REMUNERATION (continued)

An analysis of remuneration to Deloitte LLP and its affiliates is as follows:

	Years ended December 31,		
	2019	2018	2017
Audit fees	\$ 16	\$ 15	\$ 15
Audit-related fees	2	2	3
Tax advisory services and Other non-audit services	—	—	—
Total auditor's remuneration	<u>\$ 18</u>	<u>\$ 17</u>	<u>\$ 18</u>

An analysis of Deloitte LLP's remuneration is as follows:

	Years ended December 31,		
	2019	2018	2017
Audit of the Company's consolidated financial statements	\$ 1	\$ 1	\$ 1
Other assurance services	3	3	3
Tax advisory services and Other non-audit services	—	—	—
Total auditor's remuneration ⁽ⁱ⁾	<u>\$ 4</u>	<u>\$ 4</u>	<u>\$ 4</u>

(i) Includes out-of-pocket expenses.

20. OTHER INCOME, NET

Other income, net consists of the following:

	Years ended December 31,		
	2019	2018	2017
(Loss)/gain on disposal of operations	\$ (2)	\$ (9)	\$ 13
Net periodic pension and postretirement benefit credits	234	280	222
Interest in earnings of associates and other investments	21	3	3
Impact of Venezuelan currency devaluation	—	—	(2)
Foreign exchange loss	(26)	(24)	(72)
Other income, net	<u>\$ 227</u>	<u>\$ 250</u>	<u>\$ 164</u>

21. ACCUMULATED OTHER COMPREHENSIVE LOSS

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

	December 31, 2019			December 31, 2018			December 31, 2017		
	Before tax amount	Tax	Net of tax amount	Before tax amount	Tax	Net of tax amount	Before tax amount	Tax	Net of tax amount
Other comprehensive (loss)/income:									
Foreign currency translation	\$ 78	\$ —	\$ 78	\$ (251)	\$ —	\$ (251)	\$ 295	\$ —	\$ 295
Defined pension and post-retirement benefits	(412)	83	(329)	(258)	59	(199)	3	11	14
Derivative instruments	23	(2)	21	5	(3)	2	90	(15)	75
Other comprehensive (loss)/income	(311)	81	(230)	(504)	56	(448)	388	(4)	384
Less: Other comprehensive income attributable to non-controlling interests	—	—	—	—	—	—	(13)	—	(13)
Other comprehensive (loss)/income attributable to Willis Towers Watson	<u>\$ (311)</u>	<u>\$ 81</u>	<u>\$ (230)</u>	<u>\$ (504)</u>	<u>\$ 56</u>	<u>\$ (448)</u>	<u>\$ 375</u>	<u>\$ (4)</u>	<u>\$ 371</u>

21. ACCUMULATED OTHER COMPREHENSIVE LOSS (continued)

Changes in the components of accumulated other comprehensive loss, net of tax, are included in the following table. This table excludes amounts attributable to non-controlling interests, which are not material for further disclosure.

	Foreign currency translation ⁽ⁱ⁾	Derivative instruments ⁽ⁱ⁾	Defined pension and post- retirement benefit costs ⁽ⁱⁱ⁾	Total
Balance, January 1, 2017	\$ (650)	\$ (82)	\$ (1,152)	\$ (1,884)
Other comprehensive income/(loss) before reclassifications	285	28	(26)	287
Loss reclassified from accumulated other comprehensive loss (net of income tax benefit of \$18)	—	44	40	84
Net other comprehensive income	285	72	14	371
Balance, December 31, 2017	\$ (365)	\$ (10)	\$ (1,138)	\$ (1,513)
Other comprehensive loss before reclassifications	(251)	(22)	(241)	(514)
Loss reclassified from accumulated other comprehensive loss (net of income tax benefit of \$17)	—	24	42	66
Net other comprehensive (loss)/income	(251)	2	(199)	(448)
Balance, December 31, 2018	\$ (616)	\$ (8)	\$ (1,337)	\$ (1,961)
Other comprehensive income/(loss) before reclassifications	78	12	(343)	(253)
Loss reclassified from accumulated other comprehensive loss (net of income tax benefit of \$9)	—	9	14	23
Net other comprehensive income/(loss)	78	21	(329)	(230)
Reclassification of tax effects per ASU 2018-02 ⁽ⁱⁱⁱ⁾	—	—	(36)	(36)
Balance, December 31, 2019	\$ (538)	\$ 13	\$ (1,702)	\$ (2,227)

- (i) Reclassification adjustments from accumulated other comprehensive loss related to derivative instruments for the year ended December 31, 2019 are included in Revenue and Salaries and benefits, and are included in Other income, net for the years ended December 31, 2018 and 2017, in the accompanying consolidated profit and loss account. See Note 10 to these Consolidated Financial Statements for additional details regarding the reclassification adjustments for the derivative settlements.
- (ii) Reclassification adjustments from accumulated other comprehensive loss are included in the computation of net periodic pension cost (see Note 13 to these Consolidated Financial Statements). These components are included in Other income, net in the accompanying consolidated profit and loss account.
- (iii) On January 1, 2019, in accordance with ASU 2018-02, we reclassified to Retained earnings \$36 million of defined pension and postretirement costs, representing the 'stranded' tax effect of the change in the U.S. federal corporate tax rate resulting from U.S. Tax Reform. See Note 2 to these Consolidated Financial Statements for further information.

22. SHARE-BASED COMPENSATION**Plan Summaries**

On December 31, 2019, the Company had a number of open share-based compensation plans, which provide for the granting of time-based and performance-based options, time-based and performance-based restricted stock units, and various other share-based grants to employees. All of the Company's share-based compensation plans under which any options, restricted stock units ('RSUs') or other share-based grants are outstanding as of December 31, 2019 are described below. The compensation cost that has been recognized for these plans for the years ended December 31, 2019, 2018 and 2017 was \$74 million, \$50 million and \$67 million, respectively. The total income tax benefits recognized in the consolidated profit and loss account for share-based compensation arrangements for the years ended December 31, 2019, 2018, and 2017 were \$11 million, \$10 million and \$22 million, respectively.

2012 Equity Incentive Plan

This plan, which was established on April 25, 2012, provides for the granting of incentive stock options, time-based or performance-based non-statutory stock options, share appreciation rights, restricted shares, time-based or performance-based RSUs, performance-based awards and other share-based grants or any combination thereof (collectively referred to as 'Awards') to employees, officers, non-employee directors and consultants ('Eligible Individuals') of the Company ('2012 Plan'). The board of directors also adopted a sub-plan under the 2012 Plan to provide an employee sharesave scheme in the U.K.

There were approximately 8 million shares remaining available for grant under this plan as of December 31, 2019. Options are exercisable on a variety of dates, including from the second, third, fourth or fifth anniversary of the grant date. Unless

22. SHARE-BASED COMPENSATION (continued)

terminated sooner by the board of directors, the 2012 Plan will expire 10 years after the date of its adoption. That termination will not affect the validity of any grants outstanding at that date.

Towers Watson Share Plans

In January 2016, in connection with the Merger, we assumed the Towers Watson & Co. 2009 Long-Term Incentive Plan ('2009 LTIP') and converted the outstanding unvested restricted stock units and options into Willis Towers Watson RSUs and options using a conversion ratio stated in the Merger Agreement. We determined the fair value of the portion of the outstanding RSUs and options related to pre-acquisition employee service using the straight-line methodology from the date of grant to the acquisition date to be \$37 million, which was added to the transaction consideration. The fair value of the remaining portion of RSUs and options related to the post-acquisition employee services was \$45 million, and was recorded over the subsequent vesting periods through 2018. For the years ended December 31, 2018 and 2017, we recorded \$3 million and \$11 million of non-cash stock-based compensation expense, respectively.

The acquired awards have vested in full, and the Company does not intend to grant future awards under the 2009 LTIP plan.

Options

Valuation Assumptions

The fair value of each option is estimated on the date of grant using the Black-Scholes option pricing model that uses the assumptions noted in the following table. Expected volatility is based on historical volatility of the Company's shares. The Company uses the simplified method set out in ASC 718 – *Compensation – Stock Compensation* to derive the expected term of options granted as it does not have sufficient historical exercise data to provide a reasonable basis upon which to estimate the expected term. The risk-free interest rate for periods within the expected life of the option is based on the U.S. Treasury yield curve in effect at the time of grant. The assumptions noted in the table below represent the weighted-average of each assumption for each grant during the year.

	<u>Year ended December 31,</u> <u>2017</u>
Expected volatility	19.8%
Expected dividends	1.4%
Expected life (years)	4.2
Risk-free interest rate	1.6%

There were no options granted during the years ended December 31, 2019 and 2018.

22. SHARE-BASED COMPENSATION (continued)*Award Activity*

Classification of options as time-based or performance-based is dependent on the original terms of the award. Performance conditions on the majority of options have been met. A summary of option activity under the plans at December 31, 2019, and changes during the year then ended is presented below:

	Options (thousands)	Weighted- Average Exercise Price ⁽ⁱ⁾	Weighted- Average Remaining Contractual Term	Aggregate Intrinsic Value
Time-based stock options				
Balance as of December 31, 2018	449	\$ 102.36		
Granted	—	\$ —		
Exercised	182	\$ 98.91		
Forfeited	7	\$ 117.96		
Balance as of December 31, 2019	<u>260</u>	\$ 104.38	1.6 years	\$ 25
Options vested or expected to vest at December 31, 2019	260	\$ 104.38	1.6 years	\$ 25
Options exercisable at December 31, 2019	196	\$ 98.46	1.4 years	\$ 20
Performance-based stock options				
Balance as of December 31, 2018	542	\$ 110.55		
Granted	—	\$ —		
Exercised	245	\$ 110.62		
Cancelled	10	\$ 107.87		
Balance as of December 31, 2019	<u>287</u>	\$ 110.58	2.7 years	\$ 26
Options vested or expected to vest at December 31, 2019	287	\$ 110.58	2.7 years	\$ 26
Options exercisable at December 31, 2019	287	\$ 110.58	2.7 years	\$ 26

(i) Certain options are exercisable in Pounds sterling and are converted to dollars using the exchange rate at December 31, 2019.

The weighted-average grant-date fair value of time-based options granted during the year ended December 31, 2017 was \$27.69. The total intrinsic values of time-based options exercised during the years ended December 31, 2019, 2018 and 2017 were \$16 million, \$12 million and \$19 million, respectively. At December 31, 2019, there was less than \$1 million of total unrecognized compensation cost under the time-based stock option plans; that cost is expected to be recognized over a weighted-average period of 1.9 years.

The total intrinsic values of performance-based options exercised during the years ended December 31, 2019, 2018 and 2017 were \$16 million, \$8 million and \$10 million, respectively. At December 31, 2019, there is no unrecognized compensation cost related to the performance-based stock option plans.

Cash received from option exercises under all share-based payment arrangements for the years ended December 31, 2019, 2018 and 2017 was \$45 million, \$45 million and \$61 million, respectively. The actual tax benefit recognized for the tax deductions from option exercises of the share-based payment arrangements totaled \$6 million, \$4 million and \$7 million for the years ended December 31, 2019, 2018 and 2017, respectively.

22. SHARE-BASED COMPENSATION (continued)

Equity-settled RSUs

Valuation Assumptions

The fair value of each time-based RSU is based on the grant date fair value, or the fair value on the acquisition date in the case of acquired awards. The fair value of each performance-based RSU is estimated on the grant date using a Monte-Carlo simulation that uses the assumptions noted in the following table. The awards also contain a market-based performance target. For the awards granted in 2019 and 2018, the performance measure is entirely based on this market target. Expected volatility is based on the historical volatility of the Company's shares. The risk-free interest rate is based on the U.S. Treasury yield curve in effect at the time of the grant. The assumptions noted in the table below represent the weighted-average of each assumption for each grant during the year.

	Years ended December 31,		
	2019	2018	2017
Expected volatility	25.6%	17.9%	20.2%
Expected dividend yield	—%	—%	—%
Expected life (years)	2.7	2.5	2.4
Risk-free interest rate	2.1%	2.6%	1.4%

Award Activity

A summary of time-based and performance-based RSU activity under the plans at December 31, 2019, and changes during the year then ended, is presented below:

	Shares (thousands)	Weighted- Average Grant Date Fair Value
Nonvested shares (time-based RSUs)		
Balance as of December 31, 2018	19	\$ 141.19
Granted	14	\$ 179.04
Vested	21	\$ 150.64
Forfeited	1	\$ 136.17
Balance as of December 31, 2019	11	\$ 172.25
Nonvested shares (performance-based RSUs)		
Balance as of December 31, 2018	758	\$ 91.02
Granted	186	\$ 198.49
Vested	178	\$ 123.86
Forfeited	25	\$ 204.68
Cancelled	234	\$ 10.62
Balance as of December 31, 2019	507	\$ 150.22

The total number of time-based RSUs that vested during the year ended December 31, 2019 was 21,025 shares at an average share price of \$189.42. The total number of time-based RSUs that vested during the year ended December 31, 2018 was 164,728 shares at an average share price of \$156.14. The total number of time-based RSUs that vested during the year ended December 31, 2017 was 178,574 shares at an average share price of \$150.81. At December 31, 2019 there was \$1 million of total unrecognized compensation cost related to the time-based RSU plan; that cost is expected to be recognized over a weighted-average period of 0.9 years.

The total number of performance-based RSUs that vested during the year ended December 31, 2019 was 178,346 shares at an average share price of \$175.01. The total number of performance-based RSUs that vested during the year ended December 31, 2018 was 249,901 shares at an average share price of \$154.99. The total number of performance-based RSUs that vested during the year ended December 31, 2017 was 318,714 shares at an average share price of \$140.32. At December 31, 2019 there was \$11 million of total unrecognized compensation cost related to the performance-based RSU plan; that cost is expected to be recognized over a weighted-average period of 2.0 years.

The actual tax benefit recognized for the tax deductions from RSUs that vested totaled \$7 million, \$12 million and \$19 million for the years ended December 31, 2019, 2018 and 2017, respectively.

22. SHARE-BASED COMPENSATION (continued)*Phantom RSUs*

The Company granted 204,269 and 268,956 units of phantom stock with a market-performance feature during the years ended December 31, 2019 and 2018, respectively. These are cash-settled awards with final payout based on the performance of the Company's stock. The grant date fair value of the awards was \$105.97 and \$83.57 per share for the 2019 and 2018 awards, respectively. The fair value of each phantom RSU is estimated using a Monte Carlo simulation. The Company's stock price as of the last day of the period is one of the inputs used in the simulation. Expected volatility is based on the historical volatility of the Company's shares. The expected term of each plan is three years, based on the vesting terms of the awards. The risk-free interest rate is based on the U.S. Treasury yield curve in effect at the time of grant.

Since the awards are cash-settled, they are considered a liability. Expense is recognized over the service period. The liability is remeasured at the end of each reporting period and changes in fair value are recognized as compensation cost. For both plans, as of December 31, 2019, the liability recognized is \$31 million and the estimated unrecognized compensation cost is \$44 million.

23. EARNINGS PER SHARE

Basic and diluted earnings per share are calculated by dividing net income attributable to Willis Towers Watson by the average number of ordinary shares outstanding during each period. The computation of diluted earnings per share reflects the potential dilution that could occur if dilutive securities and other contracts to issue shares were exercised or converted into shares or resulted in the issuance of shares that then shared in the net income of the Company.

At December 31, 2019, 2018 and 2017, there were 0.3 million, 0.4 million and 0.8 million time-based share options; 0.3 million, 0.5 million and 0.7 million performance-based options; and 0.5 million, 0.8 million and 0.9 million performance-based RSUs outstanding, respectively. The Company's time-based RSUs were immaterial at December 31, 2019 and 2018; there were 0.1 million time-based RSUs outstanding at December 31, 2017.

Basic and diluted earnings per share are as follows:

	Years ended December 31,		
	2019	2018	2017
Net income attributable to Willis Towers Watson	\$ 1,044	\$ 695	\$ 568
Basic weighted-average number of shares outstanding	130	131	135
Dilutive effect of potentially issuable shares	—	1	1
Diluted weighted-average number of shares outstanding	130	132	136
Basic earnings per share	\$ 8.05	\$ 5.29	\$ 4.21
Dilutive effect of potentially issuable shares	(0.03)	(0.02)	(0.03)
Diluted earnings per share	\$ 8.02	\$ 5.27	\$ 4.18

There were no anti-dilutive options for the years ended December 31, 2019, 2018 and 2017. For the year ended December 31, 2018, 0.2 million RSUs were not included in the computation of the dilutive effect of potentially issuable shares because their effect was anti-dilutive. There were no anti-dilutive RSUs for the years ended December 31, 2019 and 2017.

24. SUPPLEMENTAL DISCLOSURES OF CASH FLOW INFORMATION

Supplemental disclosures regarding cash flow information and non-cash investing and financing activities are as follows:

	Years Ended December 31,		
	2019	2018	2017
Supplemental disclosures of cash flow information:			
Cash payments for income taxes, net	\$ 299	\$ 178	\$ 203
Cash payments for interest	\$ 210	\$ 176	\$ 169
Cash acquired	\$ 11	\$ 13	\$ —
Supplemental disclosures of non-cash investing and financing activities:			
Fair value of deferred and contingent consideration related to acquisitions	\$ 13	\$ 36	\$ —

25. QUARTERLY FINANCIAL DATA (UNAUDITED)

Quarterly financial data for 2019 and 2018 were as follows:

	Three Months Ended			
	March 31,	June 30,	September 30,	December 31,
2019				
Revenue	\$ 2,312	\$ 2,048	\$ 1,989	\$ 2,690
Total costs of providing services	\$ 1,953	\$ 1,872	\$ 1,882	\$ 2,003
Income from operations	\$ 359	\$ 176	\$ 107	\$ 687
Net income	\$ 293	\$ 149	\$ 80	\$ 551
Net income attributable to Willis Towers Watson	\$ 287	\$ 138	\$ 75	\$ 544
Earnings per share				
— Basic	\$ 2.21	\$ 1.06	\$ 0.58	\$ 4.20
— Diluted	\$ 2.20	\$ 1.06	\$ 0.58	\$ 4.18
2018				
Revenue	\$ 2,292	\$ 1,990	\$ 1,859	\$ 2,372
Total costs of providing services	\$ 2,033	\$ 1,927	\$ 1,842	\$ 1,902
Income from operations	\$ 259	\$ 63	\$ 17	\$ 470
Net income	\$ 221	\$ 65	\$ 46	\$ 383
Net income attributable to Willis Towers Watson	\$ 215	\$ 58	\$ 44	\$ 378
Earnings per share				
— Basic	\$ 1.62	\$ 0.44	\$ 0.34	\$ 2.91
— Diluted	\$ 1.61	\$ 0.44	\$ 0.33	\$ 2.89

26. SUBSIDIARY UNDERTAKINGS AND UNDERTAKINGS OF SUBSTANTIAL INTEREST

As of December 31, 2019, the Company included the following subsidiary undertakings principally affecting the assets, liabilities, financial position or profit or loss of the Company.

Subsidiary Name	Registered Office	Country of Registration and Principal Place of Business	Class of Share	Percentage Ownership
Indirect subsidiaries:				
Holding companies				
Trinity Acquisition plc	51 Lime Street, London EC3M 7DQ	England and Wales	Ordinary shares	100%
WTW Delaware Holdings LLC	251 Little Falls Drive, Wilmington, New Castle County, DE 19808	U.S.A.	Membership interest	100%
Willis US Holding Company, LLC	251 Little Falls Drive, Wilmington, New Castle County, DE 19808	U.S.A.	Membership interest	100%
GS & Cie Groupe S.A.S.	33/34 Quai de Dion-Bouton, 92800 Puteaux	France	Ordinary shares	100%
Willis Towers Watson (Düsseldorf) GmbH	Habsburgerring 2, 50674 Köln	Germany	Ordinary shares	100%
Insurance broking entities				
Willis Limited	51 Lime Street, London EC3M 7DQ	England and Wales	Ordinary shares	100%
Willis HRH, Inc.	200 Liberty Street, New York, NY 10281	U.S.A.	Common shares	100%
Willis North America, Inc.	200 Liberty Street, New York, NY 10281	U.S.A.	Common shares	100%
Willis Towers Watson Northeast, Inc. (formerly Willis of New York, Inc.)	200 Liberty Street, New York, NY 10281	U.S.A.	Common shares	100%
Willis Re, Inc.	200 Liberty Street, New York, NY 10281	U.S.A.	Common shares	100%
Gras Savoye S.A.S.	33/34 Quai de Dion-Bouton, 92800 Puteaux	France	Ordinary shares	100%
Miller Insurance Services LLP	70 Mark Lane, London, EC3R 7NQ	England and Wales	Membership interest	85%
Actuarial, consulting and benefit exchange companies				
Willis Towers Watson US LLC	251 Little Falls Drive, Wilmington, New Castle County, DE 19808	U.S.A.	Membership interest	100%
Towers Watson Limited	Watson House, London Road, Reigate, Surrey, RH2 9PQ	England and Wales	Ordinary shares	100%
Extend Health LLC	251 Little Falls Drive, Wilmington, New Castle County, DE 19808	U.S.A.	Membership interest	100%
MG LLC	251 Little Falls Drive, Wilmington, New Castle County, DE 19808	U.S.A.	Membership interest	100%

As of December 31, 2019, the Company did not have investments in undertakings of substantial interest that substantially affected the net income or net assets of the Company.

27. SUBSEQUENT EVENTS

Proposed Acquisition by Aon plc

On March 9, 2020, WTW and AON plc ('Aon') issued an announcement disclosing that the boards of directors of WTW and Aon had reached agreement on the terms of a recommended acquisition of WTW by Aon. Under the terms of the agreement each Parent Company shareholder will receive 1.08 Aon ordinary shares for each WTW ordinary share. Upon completion of the combination, existing Aon shareholders will own approximately 63% and existing WTW shareholders will own approximately 37% of the combined company on a fully diluted basis.

The transaction is subject to the approval of the shareholders of both WTW and Aon, as well as other customary closing conditions, including required regulatory approvals. The parties expect the transaction to close in the first half of 2021, subject to satisfaction of these conditions.

COVID-19

The Directors have considered the impact of COVID-19 on the Company, which is a non-adjusting post balance sheet event. Assets and liabilities have been measured based on events and conditions at the balance sheet date. It is not practical to provide further quantitative disclosure of the impact of COVID-19 on assets and liabilities.

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INDEPENDENT AUDITOR'S REPORT TO THE MEMBERS OF WILLIS TOWERS WATSON PUBLIC LIMITED COMPANY

Report on the audit of the parent company financial statements

Opinion

In our opinion, the financial statements of Willis Towers Watson Public Limited Company ('the Parent Company'):

- give a true and fair view of the assets, liabilities and financial position of the Parent Company at December 31, 2019 and of its profit for the financial year then ended; and
- have been properly prepared in accordance with the relevant financial reporting framework and, in particular, with the requirements of the Companies Act 2014.

The Parent Company financial statements we have audited comprise:

- the Statement of Financial Position;
- the Statement of Cash Flows;
- the Statement of Changes in Equity; and
- the related notes 1 to 18, including a summary of significant accounting policies as set out in Note 1.

The relevant financial reporting framework that has been applied in their preparation is the Companies Act 2014 and International Financial Reporting Standards ('IFRSs') as adopted by the European Union and as applied in accordance with the Companies Act 2014 ('relevant financial reporting framework').

Basis for opinion

We conducted our audit in accordance with International Standards on Auditing (Ireland) ('ISAs (Ireland)') and applicable law. Our responsibilities under those standards are further described in the 'Auditor's responsibilities for the audit of the financial statements' section of our report.

We are independent of the Parent Company in accordance with the ethical requirements that are relevant to our audit of the financial statements in Ireland, including the Ethical Standard issued by The Irish Auditing and Accounting Supervisory Authority ('IAASA') as applied to listed entities, and we have fulfilled our other ethical responsibilities in accordance with these requirements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

Conclusions relating to going concern

We are required by ISAs (Ireland) to report in respect of the following matters where:

- the directors' use of the going concern basis of accounting in the preparation of the financial statements is not appropriate; or
- the directors have not disclosed in the financial statements any identified material uncertainties that may cast significant doubt about the Parent Company's ability to continue to adopt the going concern basis of accounting for a period of at least twelve months from the date when the financial statements are authorized for issue.

We have nothing to report in respect of these matters.

Key audit matters

Key audit matters are those matters that, in our professional judgement, were of most significance in our audit of the financial statements of the current financial year and include the most *significant* assessed risks of material misstatement (whether or not due to fraud) we identified, including those which had the greatest effect on: the overall audit strategy, the allocation of resources in the audit; and directing the efforts of the engagement team. These matters were addressed in the context of our audit of the financial statements as a whole, and in forming our opinion thereon, and we do not provide a separate opinion on these matters.

Impairment of investment in subsidiaries

Key audit matter description	<p>We have identified a key audit matter in relation to the evaluation of an impairment of investment in subsidiaries. Due to the large quantitative nature of the balance there is a risk of material misstatement arising from the estimation of recoverable value, which is calculated as the higher of fair value less costs of disposal and value in use.</p> <p>Refer to Note 8 to the financial statements and the section ‘Key sources of estimation uncertainty’ in Note 1 to the financial statements.</p>
How the scope of our audit responded to the key audit matter	<p>We performed detailed substantive testing of the recoverable amount. This included evaluation of any indicators of impairment by performing a review of the financial statements of underlying subsidiaries. We performed substantive testing of the methodology used by management for determining the recoverable amount, which included comparing the value to the market capitalisation of Willis Towers Watson.</p>
Key observations	<p>We performed the planned procedures without noting any material issues.</p>

COVID-19 subsequent event

Key audit matter description As disclosed in Note 1 and Note 18, subsequent to the balance sheet date a global pandemic of a new strain of Coronavirus ('COVID-19', 'the virus') has emerged.

The virus, and responses taken by organizations and governments to manage its spread in markets to which the Company is exposed, have led to increased volatility and economic disruption. The Directors judge the matter to be a non-adjusting event in accordance with accounting standards, since it is indicative of conditions that arose after the reporting period. It is therefore not reflected in the measurement of assets and liabilities at the balance sheet date.

In light of the potential future disruption to business operations and those of the Group's clients, suppliers and other third parties with whom the Group interacts, the Directors considered it was appropriate to perform additional procedures and analysis, specific to COVID-19, to consider whether these events and uncertainties cast significant doubt upon the Company's ability to continue as a going concern. This analysis considered business resilience and continuity plans, financial modeling and stress testing of liquidity and financial resources. Specifically, the analysis separated the Company's revenue mix into contracts and projects with high client discretion versus contracts and projects that are recurring in nature and less susceptible to economic factors, which averages to 20 percent discretionary and 80 percent non-discretionary. The analysis modeled the financial impact assuming an increasing severity of global economic impact in relation to GDP, and consequently revenue, across the countries in which the Company operates for an 18-month period so that the potential impact on profitability and liquidity could be assessed.

Having considered this analysis, the Directors have concluded that there are no conditions or events, considered in the aggregate, including those related to the COVID-19 pandemic, that raise significant doubt about the Company's ability to continue as a going concern for a period of not less than one year after the date of approval of these financial statements.

Auditing the analysis involved subjective judgment and an increased extent of effort, including the need to make additional inquiries of operational management.

The Parent Company has made disclosures to reflect the results of its assessment in the Directors' Report, Note 1 to the Parent Company financial statements – Basis of Presentation, Significant Accounting Policies and Critical Accounting Judgments and Estimates, and Note 18 to the Parent Company financial statements – Subsequent Events.

How the scope of our audit responded to the key audit matter We evaluated the Directors' approach to assessing the impact of COVID-19 on the Parent Company and its financial statement disclosures by performing the following procedures:

- Evaluated management's stress and scenario testing and challenged management's key assumptions, focusing on the worst case GDP scenario, assessing the consistency with other available information and our understanding of the business;
- Evaluated management's assessment of the risks facing the Group and Parent Company including liquidity risk, and operational matters;
- Made inquiries of senior management in relation to their assessment of the impacts of COVID-19 on the Group and Parent Company, including inquiries of operational management in relation to business resilience;
- Inspected correspondence between the Group and its regulators related to the Group's responses to the emergence of COVID-19; and
- Assessed the disclosures in the financial statements against applicable accounting standards, assessed the Directors' conclusion in respect of the going concern basis, the judgement that COVID-19 is a non-adjusting subsequent event and evaluated the consistency of the disclosures with our knowledge of the Parent Company.

Key observations We agree with the Directors' conclusion in respect of the going concern basis and their judgement that COVID-19 is a non-adjusting subsequent event and we consider the disclosure of the potential impact of COVID-19 in the financial statements to be appropriate.

Our application of materiality

We define materiality as the magnitude of misstatement that makes it probable that the economic decisions of a reasonably knowledgeable person would be changed or influenced. We use materiality both in planning the scope of our audit work and in evaluating the results of our work.

Based on our professional judgement, we determined materiality for the financial statements as a whole as follows:

Materiality	\$85 million (2018: \$80 million)
Basis for determining materiality	The basis of materiality is net assets, taking into account the Group materiality of \$90 million (2018: \$85 million) as stated in our opinion on the consolidated financial statements of the Group. The materiality is approximately 0.7% (2018: 0.7%) of net assets.
Rationale for the benchmark applied	Materiality for the Parent Company's financial statements is based on net assets as the principal activities of the Parent Company are to hold investments in subsidiaries and debt.

We agreed with the Audit Committee that we would report to them any audit differences in excess of \$4 million (2018: \$4 million), as well as differences below that threshold which, in our view, warranted reporting on qualitative grounds. We also report to the Audit Committee on disclosure matters that we identified when assessing the overall presentation of the financial statements.

An overview of the scope of our audit

The scope of our audit was determined by obtaining an understanding of the Parent Company and its environment, including internal control and assessing the risks of material misstatement.

Audit work to respond to the risks of material misstatement was performed directly by the audit engagement team.

Other information

The directors are responsible for the other information. The other information comprises the information included in the annual report, other than the financial statements and our auditor's report thereon. Our opinion on the financial statements does not cover the other information and, except to the extent otherwise explicitly stated in our report, we do not express any form of assurance conclusion thereon.

In connection with our audit of the financial statements, our responsibility is to read the other information and, in doing so, consider whether the other information is materially inconsistent with the financial statements or our knowledge obtained in the audit or otherwise appears to be materially misstated. If we identify such material inconsistencies or apparent material misstatements, we are required to determine whether there is a material misstatement in the financial statements or a material misstatement of the other information. If, based on the work we have performed, we conclude that there is a material misstatement of this other information, we are required to report that fact.

We have nothing to report in respect of these matters.

Responsibilities of directors

As explained more fully in the Directors' Responsibilities Statement, the directors are responsible for the preparation of the financial statements and for being satisfied that they give a true and fair view and otherwise comply with the Companies Act 2014, and for such internal control as the directors determine is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, the directors are responsible for assessing the Parent Company's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless the directors either intend to liquidate the Parent Company or to cease operations, or have no realistic alternative but to do so.

Auditor's responsibilities for the audit of the financial statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with ISAs (Ireland) will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or

in the aggregate, they could reasonably be expected to influence the economic decisions of users made on the basis of these financial statements.

A further description of our responsibilities for the audit of the financial statements is located on the IAASA's website at: <http://www.iaasa.ie/getmedia/b2389013-1cf6-458b-9b8f-a98202dc9c3a/Descriptionofauditorsresponsibilitiesforaudit.pdf>. This description forms part of our auditor's report.

Report on other legal and regulatory requirements

Opinions on other matters prescribed by the Companies Act 2014

Based solely on the work undertaken in the course of the audit, we report that:

- We have obtained all the information and explanations which we consider necessary for the purposes of our audit.
- In our opinion, the accounting records of the Parent Company were sufficient to permit the financial statements to be readily and properly audited.
- The Parent Company statement of financial position is in agreement with the accounting records.
- In our opinion, the information given in those parts of the directors' report as specified for our review is consistent with the financial statements and has been prepared in accordance with the Companies Act 2014.

Matters on which we are required to report by exception

Based on the knowledge and understanding of the Parent Company and its environment obtained in the course of the audit, we have not identified material misstatements in those parts of the directors' report that have been specified for our review.

We have nothing to report in respect of the provisions in the Companies Act 2014 which require us to report to you if, in our opinion, the disclosures of directors' remuneration and transactions required by Sections 305 to 312 of the Companies Act 2014 are not made.

Other matter

We have reported separately on the consolidated financial statements of Willis Towers Watson Public Limited Company and its subsidiaries for the financial year ended December 31, 2019.

Use of our report

Our report is made solely to the Parent Company's members, as a body, in accordance with Section 391 of the Companies Act 2014. Our audit work has been undertaken so that we might state to the Parent Company's members those matters we are required to state to them in an auditor's report and for no other purpose. To the fullest extent permitted by law, we do not accept or assume responsibility to anyone other than the Parent Company and the Parent Company's members, as a body, for our audit work, for this report, or for the opinions we have formed.

Andrew Downes
For and on behalf of Deloitte LLP
Statutory Audit Firm
London, United Kingdom

17 April 2020

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PARENT COMPANY STATEMENT OF FINANCIAL POSITION

	Note	December 31,	
		2019	2018
(millions)			
NON-CURRENT ASSETS			
Investments in subsidiaries	8	\$ 7,782	\$ 7,327
		7,782	7,327
CURRENT ASSETS			
Receivables	10	4,644	4,755
Cash at bank and in hand		—	—
		4,644	4,755
CURRENT LIABILITIES			
Payables	11	101	96
		101	96
NET CURRENT ASSETS		4,543	4,659
TOTAL ASSETS LESS CURRENT LIABILITIES		12,325	11,986
NON-CURRENT LIABILITIES			
Long-term debt	12	499	498
		499	498
NET ASSETS		\$ 11,826	\$ 11,488
EQUITY			
Called up share capital	13	\$ —	\$ —
Share premium account		9,465	9,420
Other reserves		562	530
Profit and loss account ⁽ⁱ⁾		1,799	1,538
SHAREHOLDERS' EQUITY		\$ 11,826	\$ 11,488

(i) The net profit for the year ended December 31, 2019 is \$750 million (year ended December 31, 2018: net profit of \$632 million).

The accompanying notes are an integral part of the Parent Company Financial Statements.

Approved by the Board of Directors on April 17, 2020 and signed on behalf of the Directors:

/s/ Anna C. Catalano
Director

/s/ Brendan R. O'Neill
Director

PARENT COMPANY STATEMENT OF CASH FLOWS

	Years ended December 31,	
	2019	2018
	(millions)	
CASH FLOWS FROM OPERATING ACTIVITIES		
Profit before tax	\$ 750	\$ 632
Adjustments for:		
Movement in other assets	(397)	(1,171)
Movement in other liabilities	(5)	2
Net cash provided by/(used in) operating activities	348	(537)
CASH FLOWS FROM INVESTING ACTIVITIES		
Proceeds, net of repayments, from intercompany investing activities	86	1,398
Net cash provided by investing activities	86	1,398
CASH FLOWS FROM FINANCING ACTIVITIES		
Repurchase of shares	(150)	(602)
Proceeds from issuance of shares	45	45
Dividends paid	(329)	(306)
Net cash used in financing activities	(434)	(863)
DECREASE IN CASH AND CASH EQUIVALENTS	—	(2)
CASH AND CASH EQUIVALENTS, BEGINNING OF YEAR	—	2
CASH AND CASH EQUIVALENTS, END OF YEAR ⁽ⁱ⁾	\$ —	\$ —

(i) Cash and cash equivalents relate only to cash at bank and in hand.

(ii) Cash payments for interest were \$29 million (2018: \$29 million).

PARENT COMPANY STATEMENT OF CHANGES IN EQUITY

	Share capital	Share premium account	Profit and loss account (millions)	Other reserves	Total
At December 31, 2017	\$ —	\$ 9,375	\$ 1,821	\$ 503	\$ 11,699
Shares repurchased ⁽ⁱ⁾	—	—	(602)	—	(602)
Net profit	—	—	632	—	632
Dividends paid and payable	—	—	(313)	—	(313)
Issue of shares under employee share compensation plans	—	45	—	—	45
Share-based compensation and net settlements	—	—	—	27	27
At December 31, 2018	\$ —	\$ 9,420	\$ 1,538	\$ 530	\$ 11,488
Shares repurchased ⁽ⁱ⁾	—	—	(150)	—	(150)
Net profit	—	—	750	—	750
Dividends paid and payable	—	—	(339)	—	(339)
Issue of shares under employee share compensation plans	—	45	—	—	45
Share-based compensation and net settlements	—	—	—	32	32
At December 31, 2019	\$ —	\$ 9,465	\$ 1,799	\$ 562	\$ 11,826

- (i) Based on settlement date the Parent Company repurchased 787,744 shares (2018: 3,918,689 shares) at an average price of \$190.42 in 2019 (2018: \$153.54). The amounts used to purchase the shares during 2019 and 2018, which were subsequently canceled, were charged to distributable profits. In accordance with Irish law the parent company maintains a capital redemption reserve fund of \$864.00.

NOTES TO THE PARENT COMPANY FINANCIAL STATEMENTS

1. BASIS OF PRESENTATION, SIGNIFICANT ACCOUNTING POLICIES AND CRITICAL ACCOUNTING JUDGMENTS AND ESTIMATES

Basis of presentation

Willis Towers Watson plc (the 'Parent Company') is a public company limited by shares incorporated and registered in Ireland. Its registered address is Willis Towers Watson House, Elm Park, Merrion Road, Dublin 4, Ireland and its registered number is 475616.

The financial statements of the Parent Company have been prepared in accordance with IFRSs as adopted by the European Union and in accordance with the Companies Act 2014.

The financial statements have been prepared on the historical cost basis.

The significant accounting policies adopted by the Parent Company are set out below.

Significant accounting policies

Going concern

The Directors have conducted enquiries into the nature and quality of the assets, liabilities, and cash that make up the capital of the Parent Company and its subsidiaries. Furthermore the Directors' enquiries extend to the relationship of the Parent Company and its subsidiaries with external parties on a financial and non-financial level.

In light of the potential future disruption to our own business operations and those of our clients, suppliers and other third parties with whom we interact, the Directors considered it was appropriate to perform additional procedures and analysis, specific to COVID-19, to consider whether these events and uncertainties cast significant doubt upon the Company's ability to continue as a going concern. This analysis considered our business resilience and continuity plans, financial modeling and stress testing of liquidity and financial resources. Specifically, the analysis separated the Company's revenue mix into contracts and projects with high client discretion versus contracts and projects that are recurring in nature and less susceptible to economic factors, which averages to 20 percent discretionary and 80 percent non-discretionary. The analysis modeled the financial impact assuming an increasing severity of global economic impact in relation to GDP, and consequently revenue, across the countries in which the Company operates for an 18-month period so that the potential impact on profitability and liquidity could be assessed.

Having assessed the responses to their enquiries, including those related to COVID-19, the Directors have no reason to believe that a material uncertainty exists that may cast significant doubt upon the ability of the Parent Company to continue as a going concern or its ability to repay loans due from time to time. The Directors concluded that there are no conditions or events, considered in the aggregate, including those related to the COVID-19 pandemic, that raise substantial doubt about the Parent Company's ability to continue as a going concern within one year after the date of approval of these Parent Company Financial Statements.

Foreign currency translation

These financial statements are presented in U.S. dollars which is the currency of the primary economic environment in which the Parent Company operates. Foreign currency transactions are translated using the exchange rates prevailing at the dates of the transactions. Foreign exchange gains and losses resulting from the settlement of such transactions and from the translation at year-end exchange rates of monetary assets and liabilities denominated in foreign currencies are recognized in the profit and loss account.

Dividends receivable

Income from shares in subsidiary undertakings is recognized when the right to receive payment is established.

Dividends payable

Dividends payable are recognized as liabilities and in equity when the obligation to make payment arises.

1. BASIS OF PRESENTATION, SIGNIFICANT ACCOUNTING POLICIES AND CRITICAL ACCOUNTING JUDGMENTS AND ESTIMATES (continued)

Share-based payments

The Parent Company has equity-based compensation plans that provide for grants of restricted share units and stock options to directors of the Parent Company who perform services for the Company, and equity-based and cash-settled share-based compensation plans that provide for grants of time-based and performance-based options, time-based and performance-based restricted share units and various other share-based awards to employees of the Parent Company's subsidiaries. The awards under equity-based compensation are classified as equity and included as a component of equity on the Parent Company's balance sheet, as the ultimate payment of such awards will not be achieved through the use of the Parent Company's cash or other assets.

The Parent Company expenses equity-based compensation for directors of the Parent Company on a straight-line basis over the requisite service period based upon the fair value of the award on the date of grant, the estimated achievement of any performance targets and anticipated staff retention. Where the Parent Company enters into share-based payment arrangements involving employees of subsidiaries, the cost of the arrangements is recognized as an addition to 'Investment in subsidiaries'. The Parent Company deducts from 'Investments in subsidiaries' certain recharges to subsidiaries related to the costs of these arrangements.

Taxation

Corporation tax is provided at amounts expected to be paid or recovered using the tax rates and laws that have been enacted or substantively enacted by the balance sheet date.

Deferred tax is generally recognized on all temporary differences arising between the tax bases of assets and liabilities and their carrying amounts in the financial statements although deferred income tax assets are recognized only to the extent that it is probable that taxable profit will be available against which the deductible temporary differences, carried forward tax credits or tax losses can be utilized.

Investments

Investments in subsidiary undertakings are carried at cost, less any accumulated allowance for impairment and are reviewed for impairment whenever events or changes in circumstances indicate that the carrying amount of the subsidiary may not be fully recoverable.

Financial assets and financial liabilities

Financial assets and financial liabilities include cash and cash equivalents and receivables as well as payables (including amounts owed to / by group undertakings).

The Parent Company records its financial assets at amortised cost, on the basis of the business model in which a financial asset is managed and its contractual cash flow characteristics.

Financial assets or financial liabilities at amortised cost are initially recognized at fair value, plus or minus transaction costs that are directly attributable to the acquisition or issue of the financial asset or financial liability, and are subsequently measured at amortized cost using the effective interest method. Any resulting interest is recognized in interest income or interest expense, as appropriate.

The effective interest rate is the rate that exactly discounts estimated future cash receipts (including all fees paid or received that form an integral part of the effective interest rate, transaction costs and other premiums or discounts) through the expected life of the financial asset or financial liability to the gross carrying amount of a financial asset or to the amortised cost of a financial liability.

Impairment of financial assets at amortized cost

At each reporting date, the Company measures the loss allowance for financial assets at amortised cost. Impairment losses on financial assets at amortised cost are recognized in profit or loss on an expected loss basis: lifetime expected losses are recognized for relevant financial assets for which there have been significant increases in credit risk since initial recognition, whereas 12-month expected losses (cash shortfalls over the life of the loan arising from a default in the next 12 months) are recognized if the credit risk on a financial asset has not increased significantly since initial recognition. There would be a rebuttable presumption that the credit risk on a financial asset had increased significantly if it were more than 30 days past due and a rebuttable presumption that a financial asset was in default if it were more than 90 days past due. The amount of any impairment loss is recognized in profit or loss.

1. BASIS OF PRESENTATION, SIGNIFICANT ACCOUNTING POLICIES AND CRITICAL ACCOUNTING JUDGMENTS AND ESTIMATES (continued)

Derecognition of financial liabilities

The Parent Company removes a financial liability (or a part of a financial liability) from its statement of financial position when, and only when, it is extinguished, i.e. when the obligation specified in the contract is discharged or cancelled or expires.

Contingencies

The Parent Company has guaranteed certain liabilities of group entities. The Parent Company reviews the status of these guarantees at each reporting date and considers whether it is required to make a provision for payment on those guarantees based on the probability of the commitment being called.

The provision required for the obligation under the guarantee would be measured initially at fair value and subsequently measured at the higher of: (i) the amount of loss allowance for expected credit losses, as determined in accordance with IFRS 9 *Financial Instruments*; and (ii) the amounts initially recognized less, where appropriate, the cumulative amount of income recognized in accordance with the principles of IFRS 15 *Revenue From Contracts With Customers*.

Recent accounting pronouncements adopted in the current period

In January 2016, the IASB issued IFRS 16 *Leases*, which introduces a single lessee accounting model and requires a lessee to recognize assets and liabilities for all leases with a term of more than twelve months, unless the underlying asset is of low value. This standard has been endorsed by the E.U. and became mandatorily effective for the Parent Company at the beginning of its 2019 financial year. Adoption of this standard did not have any significant effect on the Parent Company's financial statements.

In June 2017, the IASB issued IFRIC 23 *Uncertainty over Income Tax Treatments*. This Interpretation on IAS 12 *Income Taxes* clarifies that if there is uncertainty over income tax treatments (i.e. how tax law applies) the Parent Company should:

- use judgement to determine whether each tax treatment should be considered independently or whether some tax treatments should be considered together; and
- consider whether it is probable that a tax authority will accept each tax treatment that it used or plans to use in its income tax filing:
 - if yes, the Parent Company must determine its accounting tax treatment consistently with the tax treatment included in its income tax filings;
 - if no, the Parent Company must use the most likely amount or the expected value (the sum of probability-weighted amounts in a range of possible outcomes) of the tax treatment.

This Interpretation has been endorsed by the E.U. and became mandatorily effective for the Parent Company at the beginning of its 2019 financial year. Adoption of this Interpretation did not have any significant effect on the Parent Company's financial statements.

Effective January 1, 2019 the Parent Company adopted the *Annual Improvements to IFRS Standards 2015-2017 Cycle* amendments to IAS 12 *Income Taxes* requiring a company to recognize the income tax consequences of dividends when it recognizes a liability to pay a dividend. The income tax consequences of dividends are linked more directly to past transactions or events that generated distributable profits than to distributions to owners. Therefore, an entity shall recognize the income tax consequences of dividends in profit or loss, other comprehensive income or equity according to where the entity originally recognized those past transactions or events. The Parent Company applied these amendments, which have been endorsed by the E.U., to the income tax consequences of dividends recognized on or after January 1, 2018. Adoption of this Interpretation did not have any significant effect on the Parent Company's financial statements.

No other amendments to IFRSs or International Accounting Standards ('IASs') issued or adopted by the IASB and endorsed by the E.U. that became effective for the Parent Company during the financial year had a significant effect on the Parent Company's financial statements.

1. BASIS OF PRESENTATION, SIGNIFICANT ACCOUNTING POLICIES AND CRITICAL ACCOUNTING JUDGMENTS AND ESTIMATES (continued)

Recent accounting pronouncements to be adopted in future periods

The Parent Company does not expect the introduction of IFRS 17 *Insurance Contracts*, issued by the IASB but not yet endorsed by the E.U., to have any significant effect on the Parent Company's financial statements.

The Parent Company is assessing the impact on the Parent Company financial statements of the following amendments to IFRSs or IASs that have been endorsed by the E.U. and are effective for the Parent Company from January 1, 2020: *Amendments to References to the Conceptual Framework in IFRS Standards*; *Amendments to IAS 1 and IAS 8: Definition of Material*; and *Amendments to IFRS 9, IAS 39 and IFRS 7: Interest Rate Benchmark Reform*.

The Parent Company is also assessing the potential impact on the Parent Company financial statements of the following amendments to IFRSs or IASs that have not yet been endorsed by the E.U.: *Amendments to IFRS 3: Definition of a Business*; and *Amendments to IAS 1: Classification of Liabilities as Current or Non-Current*.

Critical accounting judgments and estimates

The preparation of financial statements in conformity with IFRSs and in the application of the Parent Company's accounting policies, which are described above, requires management to make judgments, estimates and assumptions that affect the reported amounts of assets and liabilities and disclosures of contingent assets and liabilities as of the dates of the financial statements and the reported amounts of revenues and expenses during the year. Judgments, estimates and assumptions are made about the carrying amounts of assets and liabilities that are not readily apparent from other sources. The estimates and associated assumptions are based on historical experience and other factors that are considered to be relevant. Actual results may differ from these estimates.

The estimates and underlying assumptions are reviewed on an ongoing basis. Revisions to accounting estimates are recognized in the period in which the estimate is revised if the revision affects only that period, or in the period of the revision and future periods if the revision affects both current and future periods.

Critical judgments in applying the Parent Company's accounting policies

Management made no critical judgments, apart from those involving estimations (which are dealt with separately below), in the process of applying the Parent Company's accounting policies.

Key sources of estimation uncertainty

The key assumptions concerning the future, and other key sources of estimation uncertainty at the financial year end, that have a significant risk of causing a material adjustment to the carrying amounts of assets and liabilities within the next financial year, are discussed below.

Impairment of investments in subsidiaries

Determining whether the Parent Company's investment in a subsidiary has been impaired requires estimations of the investment's recoverable amount, the higher of its fair value, less costs of disposal, and its value in use. Management judgment is required to identify comparable recent transactions and/or to estimate the future cash flows expected to arise from the investment and select a suitable discount rate to use in calculating present value. See Note 8 to these Parent Company Financial Statements for the carrying amount of investments in subsidiaries. No impairment loss was recognized in 2019 or 2018.

Impairment of financial assets at amortized cost

Management judgment is required to measure the loss allowance for financial assets at amortised cost at the end of each reporting period. See Note 10 to these Parent Company Financial Statements for the carrying amount of financial assets at amortised cost. No impairment loss was recognized in 2019 or 2018. Under IFRS 9 *Financial Instruments*, management considered that there had been no significant increases in credit risk since initial recognition and that 12-month expected losses were nil.

Taxation

Management judgment is required to determine the amount of deferred tax assets that can be recognized, based upon the level of historical taxable income and projections for future taxable income. Further details are given in Note 6 to these Parent Company Financial Statements.

2. NET PROFIT/(LOSS)

As permitted by section 304 of the Companies Act 2014 the Parent Company is availing itself of the exemption from including its Parent Company only profit and loss account in these financial statements and from filing it with the Registrar of Companies. The net profit for the financial year dealt with in the Parent Company only financial statements amounts to \$750 million (December 31, 2018: net profit of \$632 million). There is no other comprehensive income in either the financial year ending December 31, 2019 or the preceding financial year.

For financial liabilities accounted for at amortized cost, total interest cost and amortization of transaction costs recognized in profit and loss were \$29 million and \$1 million, respectively (2018: \$29 million and \$1 million).

3. EMPLOYEES

The Parent Company employed no staff during the year ended December 31, 2019 and the preceding year.

4. DIRECTORS' REMUNERATION

Information regarding directors' remuneration is included in Note 19 to the Consolidated Financial Statements and Note 14 to these Parent Company Financial Statements.

Information regarding directors' interests in stock and stock options for the consolidated Company is included in the Directors' Report under the heading 'Directors' and Secretary's Interests'.

5. AUDITOR'S REMUNERATION

	Year ended December 31,	
	2019	2018
	(thousands)	
Audit of individual financial statements	\$ 12	\$ 12
Other assurance services ⁽ⁱ⁾	1,309	1,271
Tax advisory services	—	—
Other non-audit services	—	—
Total remuneration ⁽ⁱⁱ⁾	\$ 1,321	\$ 1,283

(i) Comprises \$142,000 for audit of the Consolidated Financial Statements under Irish law and \$1,167,000 for contribution to U.S. GAAP audit of the Consolidated Financial Statements (2018: \$138,000 and \$1,133,000, respectively).

(ii) Excludes remuneration to Deloitte LLP's affiliates. Includes out-of-pocket expenses.

Note 19 to the Consolidated Financial Statements provides additional details of auditor's remuneration paid by the Company.

6. TAXATION

The tax charge on ordinary activities is shown below:

	Years ended December 31,	
	2019	2018
	(millions)	
Analysis of tax charge for the year		
Current tax		
Irish corporation tax on non-trading profit at 25% (2018: 25%)	\$ —	\$ —
Current tax charge on profit on ordinary activities	\$ —	\$ —
Factors affecting tax charge for the year		
The tax assessed for the year is lower than the standard rate of corporation tax on non-trading activities in Ireland (25%). The differences are explained below:		
Profit before taxation	\$ 750	\$ 632
Profit multiplied by the standard rate of corporation tax on non-trading activities in Ireland of 25%	\$ 187	\$ 158
Effects of:		
Intercompany dividend income not taxable	(196)	(167)
Non-deductible financing expenses	8	8
Disallowable expenditure	1	1
Losses surrendered for nil consideration	—	—
Total current tax charge for the year	\$ —	\$ —

7. DIVIDENDS

	Years ended December 31,	
	2019	2018
	(millions)	
First interim payable April	\$ 85	\$ 79
Second interim payable July	84	76
Third interim payable October	85	80
Fourth interim payable January ⁽ⁱ⁾	85	78
Total dividends ^{(i) (ii) (iii)}	\$ 339	\$ 313

- (i) The 2019 interim dividends were each of \$0.65 per share (2018: \$0.60 per share). The dividend declared during the fourth quarter of 2019 of \$85 million (2018: \$78 million) was subsequently paid on January 15, 2020 (2018: January 15, 2019) to shareholders of record as at December 31, 2019 (2018: December 31, 2018).
- (ii) The Parent Company has subsequently declared a first interim dividend in the first quarter of 2020 of \$0.68 per share payable on or about April 15, 2020 to shareholders of record on March 31, 2020.
- (iii) See Note 11 to these Parent Company Financial Statements for accrued dividends payable at December 31, 2019.

8. INVESTMENTS IN SUBSIDIARIES

	<u>Subsidiary undertakings</u> (millions)
Cost and carrying amount	
Balance at December 31, 2017	\$ 6,079
Increase in investment in Willis Towers Watson Sub Holdings Unlimited Company by way of contribution	1,257
Share-based compensation ⁽ⁱ⁾	(9)
Balance at December 31, 2018	\$ 7,327
Increase in investment in Willis Towers Watson Sub Holdings Unlimited Company by way of contribution	423
Share-based compensation	32
Balance at December 31, 2019	<u>\$ 7,782</u>

(i) Net of \$36 million share-based compensation recharged to subsidiaries.

On October 1, 2018, the Parent Company and certain of its subsidiaries undertook a number of transaction steps to effect a refinancing:

- Willis Netherlands Holdings B.V. issued an interest free loan for \$1,257 million to Willis Towers Watson Sub Holdings Unlimited Company in exchange for two transitory notes, being ‘Transitory Note 1’ for \$787 million and ‘Transitory Note 2’ for \$470 million.
- Willis Investment UK Holdings Limited issued an interest bearing note for \$787 million to Willis Netherlands Holdings B.V. in exchange for Transitory Note 1.
- TA I Limited issued an interest bearing note for \$470 million to Willis Netherlands Holdings B.V. in exchange for Transitory Note 2.
- Willis Investment UK Holdings Limited transferred Transitory Note 1 to Willis Netherlands Holdings B.V. as full and final settlement of existing notes to the value of \$787 million.
- TA I Limited transferred Transitory Note 2 to Willis Netherlands Holdings B.V. as full and final settlement of existing notes to the value of \$470 million.
- Willis Netherlands Holdings B.V. transferred Transitory Notes 1 and 2 to the Parent Company as full and final settlement of existing notes to the total value of \$1,257 million.
- The Parent Company contributed Transitory Notes 1 and 2 to Willis Towers Watson Sub Holdings Unlimited Company by way of a gift whereby the Transitory Notes were extinguished.

On July 1, 2019, the Parent Company and certain of its subsidiaries undertook a number of transaction steps to effect a refinancing:

- Willis Netherlands Holdings B.V. issued an interest free promissory note for \$423 million to Willis Towers Watson Sub Holdings Unlimited Company in exchange for a transitory note of \$423 million (the ‘Transitory Note’).
- Trinity Acquisition plc issued an interest bearing note for \$423 million to Willis Netherlands Holdings B.V. (the ‘TA PLC 2019 Note’) in exchange for the Transitory Note.
- Trinity Acquisition plc transferred the Transitory Note to Willis Netherlands Holdings B.V. as full and final settlement of an existing interest bearing promissory note of \$423 million issued by Trinity Acquisition plc and held by Willis Netherlands Holdings B.V. (the ‘TA PLC Note’).
- Willis Netherlands Holdings B.V. transferred the Transitory Note to the Parent Company as full and final settlement of an existing interest free promissory note of \$423 million issued by Willis Netherlands Holdings BV and held by the Parent Company (the ‘WNHBV Note 2’).
- The Parent Company contributed the Transitory Note to Willis Towers Watson Sub Holdings Unlimited Company by way of a gift whereby the Transitory Note was extinguished.

9. SHARES IN SUBSIDIARY UNDERTAKINGS

As of December 31, 2019, the Parent Company controlled the following subsidiary undertakings principally affecting the assets, liabilities, financial position or profit or loss of the Company.

Subsidiary Name	Registered Office	Country of Registration and Principal Place of Business	Class of Share	Percentage Ownership
Indirect subsidiaries:				
Holding companies				
Trinity Acquisition plc	51 Lime Street, London EC3M 7DQ	England and Wales	Ordinary shares	100%
WTW Delaware Holdings LLC	251 Little Falls Drive, Wilmington, New Castle County, DE 19808	U.S.A.	Membership interest	100%
Willis US Holding Company, LLC	251 Little Falls Drive, Wilmington, New Castle County, DE 19808	U.S.A.	Membership interest	100%
GS & Cie Groupe S.A.S.	33/34 Quai de Dion-Bouton, 92800 Puteaux	France	Ordinary shares	100%
Willis Towers Watson (Düsseldorf) GmbH	Habsburgerring 2, 50674 Köln	Germany	Ordinary shares	100%
Insurance broking entities				
Willis Limited	51 Lime Street, London EC3M 7DQ	England and Wales	Ordinary shares	100%
Willis HRH, Inc.	200 Liberty Street, New York, NY 10281	U.S.A.	Common shares	100%
Willis North America, Inc.	200 Liberty Street, New York, NY 10281	U.S.A.	Common shares	100%
Willis Towers Watson Northeast, Inc. (formerly Willis of New York, Inc.)	200 Liberty Street, New York, NY 10281	U.S.A.	Common shares	100%
Willis Re, Inc.	200 Liberty Street, New York, NY 10281	U.S.A.	Common shares	100%
Gras Savoye S.A.S.	33/34 Quai de Dion-Bouton, 92800 Puteaux	France	Ordinary shares	100%
Miller Insurance Services LLP	70 Mark Lane, London, EC3R 7NQ	England and Wales	Membership interest	85%
Actuarial, consulting and benefit exchange companies				
Willis Towers Watson US LLC	251 Little Falls Drive, Wilmington, New Castle County, DE 19808	U.S.A.	Membership interest	100%
Towers Watson Limited	Watson House, London Road, Reigate, Surrey, RH2 9PQ	England and Wales	Ordinary shares	100%
Extend Health LLC	251 Little Falls Drive, Wilmington, New Castle County, DE 19808	U.S.A.	Membership interest	100%
MG LLC	251 Little Falls Drive, Wilmington, New Castle County, DE 19808	U.S.A.	Membership interest	100%

The Parent Company did not have material undertakings of substantial interest at December 31, 2019.

10. RECEIVABLES

	December 31,	
	2019	2018
	(millions)	
Amounts due from subsidiary undertakings ⁽ⁱ⁾	\$ 4,644	\$ 4,755
Total debtors	\$ 4,644	\$ 4,755

(i) The fair value of these amounts due from subsidiary undertakings, which are repayable on demand and non-interest bearing, was the same as the carrying amount as of December 31, 2019 and December 31, 2018.

11. CURRENT LIABILITIES

	December 31,	
	2019	2018
	(millions)	
Payables:		
Accrued dividends payable ⁽ⁱ⁾	\$ 93	\$ 84
Accrued expenses	—	1
Interest payable	8	8
Other creditors	—	3
Total current liabilities ⁽ⁱⁱ⁾	\$ 101	\$ 96

(i) Accrued dividends payable at December 31, 2019 includes \$9 million dividends accrued in relation to share-based compensation units (December 31, 2018: \$6 million).

12. NON-CURRENT LIABILITIES

	December 31,	
	2019	2018
	(millions)	
Long-term debt, net of debt issuance costs ⁽ⁱ⁾ :		
5.750% senior notes due 2021	\$ 499	\$ 498
Total non-current liabilities ⁽ⁱⁱ⁾	\$ 499	\$ 498

(i) The fair value of these senior notes as of December 31, 2019 was \$521 million (2018: \$519 million). The fair value is based on quoted market values and classified as a Level 2 measurement (fair value estimated using observable market-based inputs or unobservable inputs that are corroborated by market data).

(ii) The movements in non-current liabilities during 2019 and 2018 are non-cash accretions of debt issuance costs that were initially offset against the debt amounts.

13. CALLED UP SHARE CAPITAL

	December 31,	
	2019	2018
	Number (thousands)	
Authorized share capital		
Ordinary shares of €1 each	40	40
Ordinary shares of \$0.000304635 ^{(i) (ii)}	1,510,004	1,510,004
Preferred shares of \$0.000115	1,000,000	1,000,000

13. CALLED UP SHARE CAPITAL (continued)

	December 31,	
	2019	2018
	(thousands)	
Allotted, called up and fully paid		
128,689,930 ordinary shares in 2019 of \$0.000304635 each (2018: 128,921,530) ^{(i) (ii)}	\$ 39	\$ 39
40,000 ordinary shares of €1 each	59	59
Balance at December 31	\$ 98	\$ 98

- (i) At December 31, 2019 Parent Company subsidiaries held 17,519 ordinary shares of \$0.000304635 par value (December 31, 2018: 17,519) in trusts.
(ii) At December 31, 2019 the Parent Company held nil treasury shares (December 31, 2018: nil).

The Parent Company is authorized to repurchase shares, by way of redemption, and will consider whether to do so from time to time based on many factors, including market conditions.

The following table presents specified information about the Parent Company's repurchases of ordinary shares for the year ended December 31, 2019:

	Year ended December 31, 2019
Shares repurchased	787,744
Average price per share	\$190.42
Aggregate repurchase cost (excluding broker costs)	\$150 million

An analysis of movements on shares held by the Parent Company is as follows:

	Year Ended December 31, 2019					
	Ordinary shares, \$0.000304635 nominal value			Ordinary shares, €1 nominal value		
	Number of shares	Percentage of the called-up share capital	Nominal value (thousands)	Number of shares	Percentage of the share class	Nominal value (thousands)
Balance at January 1, 2019	17,519	Under 0.01%	\$—	40,000	100%	€40
Shares repurchased	787,744			—		—
Shares canceled	(787,744)			—		—
Balance at December 31, 2019	17,519	Under 0.01%	\$—	40,000	100%	€40

14. RELATED PARTY TRANSACTIONS

The Parent Company's related parties include subsidiaries, associates and Key Management Personnel.

Transactions with Directors and other Key Management Personnel

Key Management Personnel are defined as those persons having authority and responsibility for planning, directing and controlling the activities of the Parent Company and comprise the Directors of the Parent Company as of December 31, 2019.

Remuneration of the Key Management Personnel for services rendered to the Parent Company during the year is analyzed below:

	Year ended December 31,	
	2019	2018
	(millions)	
Short-term employment benefits (Executive Director basic salary)	\$ 1	\$ 1
Total remuneration of Key Management Personnel ⁽ⁱ⁾	\$ 1	\$ 1

- (i) Includes nil (2018: nil) paid or due to any connected persons.

14. RELATED PARTY TRANSACTIONS (continued)

The Parent Company entered into no other transactions with Key Management Personnel in 2019 or 2018, and there were no balances in respect of other transactions as of December 31, 2019 or December 31, 2018.

Transactions with subsidiaries

Transactions relating to the cost of the Parent Company's investment in its subsidiaries are described in Note 8 to these Parent Company Financial Statements.

Transactions of the Parent Company with its subsidiaries on intercompany debtor accounts during the year, and amounts due from subsidiaries as of the year end, are analyzed below:

	Year ended December 31,			
	2019		2018	
	Balance at the end of the financial year	Transactions in the financial year ⁽ⁱ⁾	Balance at the end of the financial year	Transactions in the financial year ⁽ⁱ⁾
	(millions)			
Willis Netherlands Holdings B.V.	\$ 4,088	(423)	\$ 4,511	\$ (1,257)
Willis Group Services Limited	445	312	133	(226)
Other subsidiaries	111	—	111	36
Total	\$ 4,644	(111)	\$ 4,755	\$ (1,447)

(i) Includes the effect of foreign exchange movements.

Transactions with Willis Netherlands Holdings B.V. in 2019 represent, primarily, the July 1, 2019 refinancing described in Note 8 to these Parent Company Financial Statements whereby Willis Netherlands Holdings B.V. transferred a Transitory Note to the Parent Company in full and final settlement of \$423 million of an existing note issued by Willis Netherlands Holdings B.V. and held by the Parent Company.

Transactions with Willis Netherlands Holdings B.V. in 2018 represent, primarily, the October 1, 2018 refinancing described in Note 8 to these Parent Company Financial Statements whereby Willis Netherlands Holdings B.V. transferred two Transitory Notes to the Parent Company in full and final settlement of \$1,257 million of existing notes issued by Willis Netherlands Holdings B.V. and held by the Parent Company.

Transactions with Willis Group Services Limited in 2019 represent the net increase in lending by the Parent Company, the amount of lending by the Parent Company having been determined by the Parent Company's own surplus cash. The movements during 2019 in the amount lent to Willis Group Services Limited relate, primarily, to additional lending out of dividends received by the Parent Company from Willis Towers Watson Sub Holdings Unlimited Company and amounts received by the Parent Company on the exercise of share options, that more than offset the repurchase of the Parent Company's shares, dividend payments on the Parent Company's shares and interest payments on the Parent Company's senior debt.

Transactions with Willis Group Services Limited in 2018 represent the net decrease in lending by the Parent Company, the amount of lending by the Parent Company having been determined by the Parent Company's own need for cash. The movements during 2018 in the amount lent to Willis Group Services Limited relate, primarily, to additional lending out of dividends received by the Parent Company from Willis Towers Watson Sub Holdings Unlimited Company and amounts received by the Parent Company on the exercise of share options, that were more than offset by reduced lending due to repurchase of the Parent Company's shares, dividend payments on the Parent Company's shares and interest payments on the Parent Company's senior debt.

Transactions with other subsidiaries in 2018 represent share-based compensation recharges.

The balances are intercompany advances that are repayable on demand and non-interest bearing. The amounts outstanding are unsecured and no guarantees have been given or received in respect of them.

No impairment loss was recognized in 2019 or 2018 in respect of amounts owed by related parties.

See Note 15 to these Parent Company Financial Statements for details of guarantees given by the Parent Company.

14. RELATED PARTY TRANSACTIONS (continued)

Transactions with undertakings of substantial interest

There were no transactions with undertakings of substantial interest in 2019 or 2018, and no balances in respect of such transactions as of December 31, 2019 or December 31, 2018.

15. FINANCIAL GUARANTEE CONTRACTS

As the holding company of Willis Towers Watson, the Parent Company guarantees borrowings (as detailed below), certain local letters of credit, guarantees in respect of certain subsidiaries' leasehold obligations and guarantees in respect of certain of its UK and Irish subsidiaries' obligations to fund the UK and Irish defined benefit pension plans.

Borrowings

See Note 12 to these Parent Company Financial Statements for information about the Parent Company's debt.

The Parent Company previously guaranteed, on a joint and several basis with certain of its subsidiary undertakings, the following debt securities issued by its subsidiary undertaking Willis North America Inc.:

- \$187 million 7.000% Senior Notes due 2019 (repaid on September 29, 2019).

The Parent Company guarantees, on a joint and several basis with certain of its subsidiary undertakings, the following debt securities issued by its subsidiary undertaking Willis North America Inc.:

- \$650 million 3.600% Senior Notes due 2024
- \$600 million 4.500% Senior Notes due 2028
- \$450 million 2.950% Senior Notes due 2029 (issued on September 10, 2019)
- \$400 million 5.050% Senior Notes due 2048
- \$550 million 3.875% Senior Notes due 2049 (issued on September 10, 2019)

The Parent Company guarantees, on a joint and several basis with certain of its subsidiary undertakings, the following debt securities issued by its subsidiary undertaking Trinity Acquisition plc:

- \$450 million 3.500% Senior Notes due 2021
- €540 million 2.125% Senior Notes due 2022
- \$250 million 4.625% Senior Notes due 2023
- \$550 million 4.400% Senior Notes due 2026
- \$275 million 6.125% Senior Notes due 2043

The Parent Company guarantees, on a joint and several basis with certain of its subsidiary undertakings, the \$1.25 billion revolving credit facility entered into by its subsidiary undertaking Trinity Acquisition plc on March 7, 2017 that will mature on March 7, 2022. Amounts outstanding under the facility bear interest at LIBOR plus a margin of 1.00% to 1.75%, or alternatively, the base rate plus a margin of 0.00% to 0.75%, based upon the Company's guaranteed senior unsecured long-term debt rating. Borrowings against the facility were used to repay all outstanding borrowings against the previous \$800 million revolving credit facility and the 7-year term loan due July 23, 2018 entered into by Trinity Acquisition plc.

See Note 11 to the Consolidated Financial Statements for further details.

Taking into account the inherent uncertainties involved in estimating the cash flows under the financial guarantee contracts and the credit risk of the counterparties, the fair values of these intercompany guarantee contracts are considered to approximate their carrying amounts. Furthermore, the Company considers that it is more likely than not that such an amount will not be payable under the financial guarantee contracts.

15. FINANCIAL GUARANTEE CONTRACTS (continued)

UK pension scheme contributions

The Company is a guarantor, on a joint and several basis with certain of its subsidiary undertakings, of a schedule of contributions to the end of 2024, which commenced on April 1, 2018 and which was agreed with the trustee of the Legacy Willis defined benefit pension plan in the U.K. by the employing companies. Based on this agreement, deficit funding contributions in 2020 will total approximately £25 million (\$33 million) and ongoing contributions (excluding salary sacrifice) will total approximately £14 million (\$19 million). Annual deficit funding contributions will remain at approximately £25 million (\$33 million) to 2024, after which it is expected that contributions will cease. With regards to the annual deficit funding contributions payable from 2021, the employing companies and the Trustee will seek to reach agreement over the payment being made to a Reservoir Trust arrangement as well as the circumstances governing that arrangement.

16. SHARE-BASED PAYMENTS

Details of share-based compensation relating to the shares of the Parent Company are provided in Note 22 to the Consolidated Financial Statements.

Total share-based payment cost recognized in profit and loss was \$1 million (2018: \$1 million), relating to equity-settled share-based payment transactions.

17. CAPITAL MANAGEMENT AND FINANCIAL RISK MANAGEMENT

Capital management

The Parent Company manages its capital to ensure that it will be able to continue as a going concern. The Parent Company has both debt and equity capital which it uses to invest in the activities of Willis Towers Watson. Amounts are disclosed in Notes 12 and 13 to these Parent Company Financial Statements. The capital structure of the Parent Company is reviewed at least annually as part of the review of the Company's capital structure by the board of directors. The Parent Company is not subject to externally imposed capital requirements.

Financial risk management

The Parent Company's financial risks are managed by the Treasury function of Willis Towers Watson. These risks comprise market risk (including currency risk, interest rate risk and other price risk), credit risk and liquidity risk.

Market risk

The Parent Company transacts in certain other currencies in addition to the U.S. Dollar, its functional currency, and is therefore exposed to movements in exchange rates, primarily in respect of Pounds Sterling and Euro. However, approximately 98 percent of the Parent Company's expenses in 2019 (2018: approximately 99 percent) were denominated in US dollars and the Parent Company's income, assets and liabilities at December 31, 2019 and 2018 included no significant amounts that were not denominated in US dollars.

The Parent Company pays fixed rate interest on its senior debt.

The Parent Company's profit for the 2019 financial year and equity as of December 31, 2019 would not have been significantly affected by a reasonably possible increase or decrease of 5% in the average rates for the year or the year-end rates of Pounds Sterling or Euro against the US Dollar.

Credit risk

The Parent Company is potentially exposed to credit risk from its investments in, and amounts due from, its subsidiary undertakings. An impairment allowance would be made if there were to be expected losses. No such expected losses have been identified.

The Parent Company's maximum exposure to credit risk in relation to financial assets is shown in Note 10 to these Parent Company Financial Statements. The Parent Company calculates expected credit losses on its receivables taking into account the probability of default and the loss given default. No receivables have been past due during 2019 or 2018 and the parent has had no cause to rebut the presumptions described in 'Impairment of financial assets at amortized cost' in Note 1 to these Parent Company Financial Statements. The Parent Company considers that as receivables comprise only amounts due from entities which it controls there is no significant probability of default in relation to these balances.

17. CAPITAL MANAGEMENT AND FINANCIAL RISK MANAGEMENT (continued)**Liquidity risk**

The undiscounted remaining contractual maturity of the principal and interest amounts of the Parent Company's senior debt is analyzed below:

Obligations	Payments due by		
	Total	2020	2021
5.750% senior notes due 2021	\$ 500	\$ —	\$ 500
Interest on senior notes	34	29	5
Total senior notes and related interest	<u>\$ 534</u>	<u>\$ 29</u>	<u>\$ 505</u>

The Parent Company, together with the Treasury function of Willis Towers Watson, manages amounts due from subsidiary undertakings to ensure that it has sufficient funds to repay senior debt, and interest on that debt, as it falls due.

IFRS 9 measurement categories

	IFRS 9 measurement category	Carrying amount at December 31, 2019	Carrying amount at December 31, 2018
Assets			
Investments in subsidiaries	N/A	\$ 7,782	\$ 7,327
Receivables	Amortized cost	\$ 4,644	\$ 4,755
Cash at bank and in hand	Amortized cost	\$ —	\$ —
Liabilities			
Payables	Amortized cost	\$ 101	\$ 96
Long-term debt	Amortized cost	\$ 499	\$ 498

18. SUBSEQUENT EVENTS**Intercompany refinancing**

On January 2, 2020 the Company and some of its subsidiaries undertook a number of steps to refinance certain intergroup lending arrangements. Those steps affecting this Company were as follows:

- Willis Netherlands Holdings B.V. transferred to the Company five transitory notes issued by Willis Towers Watson EP Unlimited Company to the value of \$4.1 billion in settlement of existing interest-free notes to the same value.
- The Company contributed the five transitory notes to Willis Towers Watson Sub Holdings Unlimited Company in exchange for 10,000 ordinary \$1 shares at a total premium of \$4.1 billion.

Dividend

On February 26, 2020, the Parent Company declared a first interim dividend of \$0.68 per share, payable on or about April 15, 2020 to shareholders of record on March 31, 2020.

Proposed Acquisition by Aon plc

On March 9, 2020, WTW and AON plc ('Aon') issued an announcement disclosing that the boards of directors of the Parent Company and Aon had reached agreement on the terms of a recommended acquisition of WTW by Aon. Under the terms of the agreement each Parent Company shareholder will receive 1.08 Aon ordinary shares for each Parent Company ordinary share. Upon completion of the combination, existing Aon shareholders will own approximately 63% and existing Parent Company shareholders will own approximately 37% of the combined company on a fully diluted basis.

The transaction is subject to the approval of the shareholders of both the Parent Company and Aon, as well as other customary closing conditions, including required regulatory approvals. The parties expect the transaction to close in the first half of 2021, subject to satisfaction of these conditions.

18. SUBSEQUENT EVENTS (continued)

COVID-19

The Directors have considered the impact of COVID-19 on the Company, which is a non-adjusting post balance sheet event. Assets and liabilities have been measured based on events and conditions at the balance sheet date. It is not practical to provide further quantitative disclosure of the impact of COVID-19 on assets and liabilities.