Caution regarding forward-looking statements

The terms TELUS, the Company, we, us and our refer to TELUS Corporation and, where the context of the narrative permits or requires, its subsidiaries.

This document contains forward-looking statements about expected events and our financial and operating performance. Forward-looking statements include any statements that do not refer to historical facts. They include, but are not limited to, statements relating to our objectives and our strategies to achieve those objectives, our targets, outlook, updates, and our multi-year dividend growth program. Forward-looking statements are typically identified by the words assumption, goal, guidance, objective, outlook, strategy, target and other similar expressions, or future or conditional verbs such as aim, anticipate, believe, could, expect, intend, may, plan, predict, seek, should, strive and will. These statements are made pursuant to the “safe harbour” provisions of applicable securities laws in Canada and the United States Private Securities Litigation Reform Act of 1995.

By their nature, forward-looking statements are subject to inherent risks and uncertainties and are based on assumptions, including assumptions about future economic conditions and courses of action. These assumptions may ultimately prove to have been inaccurate and, as a result, our actual results or events may differ materially from expectations expressed in or implied by the forward-looking statements. Updates to the assumptions on which our 2019 outlook is based are presented in Section 9 Update to general trends, outlook and assumptions, and regulatory developments and proceedings in this Management’s discussion and analysis (MD&A).

Risks and uncertainties that could cause actual performance or events to differ materially from the forward-looking statements made herein and in other TELUS filings include, but are not limited to, the following:

- **Regulatory decisions and developments** including changes to our regulatory regime or the outcomes of proceedings, cases or inquiries relating to its application, including but not limited to those set out in Section 9.1 Communications industry regulatory developments and proceedings in this MD&A, such as the potential for government intervention to further increase competition, for example, through mandated wholesale access; the potential for additional government intervention on pricing further to the October 2019 federal election; CRTC consumer protection regulations; amendments to existing federal legislation; changes to the cost burden associated with CRTC-mandated network interconnections; potential threats to unitary federal regulatory authority over telecommunications; regulatory action by the Competition Bureau or other regulatory agencies; spectrum and compliance with licences, including our compliance with licence conditions, changes to spectrum licence fees, spectrum policy determinations such as restrictions on the purchase, sale, subordination and transfer of spectrum licences, the cost and availability of spectrum, and ongoing and future consultations and decisions on spectrum allocation; the impact on us and other Canadian telecommunications carriers of government or regulatory actions with respect to certain countries or suppliers, including the executive order signed by U.S. President Donald Trump permitting the Secretary of Commerce to block certain technology transactions deemed to constitute national security risks and the imposition of additional license requirements on the export, re-export and transfer of goods, services and technology to Huawei Technologies Co. Ltd. and its non-U.S. affiliates; restrictions on non-Canadian ownership and control of TELUS common shares and the ongoing monitoring and compliance with such restrictions; changes to the current copyright regime; and our ability to comply with complex and changing regulation of the healthcare and medical devices industry in the jurisdictions in which we operate, including as an operator of health clinics.

- **Competitive environment** including: our ability to continue to retain customers through an enhanced customer service experience, including through the deployment and operation of evolving wireless and wireline infrastructure; intense wireless competition, including the ability of industry competitors to successfully combine a mix of Internet services and, in some cases, wireless services under one bundled and/or discounted monthly rate, along with their existing broadcast or satellite-based TV services; the success of new products, new services and supporting systems, such as home automation security and Internet of Things (IoT) services for Internet-connected devices; wireline voice and data competition, including continued intense rivalry across all services among wireless and wireline telecommunications companies, cable-TV providers, other communications companies and over-the-top (OTT) services, which, among other things, places pressures on current and future mobile phone average billing per subscriber per month (ABPU), mobile phone average revenue per subscriber per month (ARPU), cost of acquisition, cost of retention and churn rate for all services, as do customer usage patterns, increased data bucket sizes or flat-rate pricing trends for voice and data, such as our Peace of Mind plans and comparable plans recently launched, inclusive rate plans for voice and data and availability of Wi-Fi networks for data; mergers and acquisitions of industry competitors; pressures on Internet and TV ARPU and churn rate resulting from market conditions, government actions and customer usage patterns; residential voice and business network access line losses; subscriber additions and retention volumes, and associated costs for wireless, TV and Internet services; our ability to obtain and offer content on a timely basis across multiple devices on wireless and TV platforms at a reasonable cost; vertical integration in the broadcasting industry resulting in competitors owning broadcast content services, and timely and effective enforcement of related regulatory safeguards; our ability to compete successfully in customer care and business services (CCBS) given our competitors’ brand recognition, consolidation and strategic alliances, as well as technology development; in our TELUS Health business, our ability to compete with other providers of electronic medical records and pharmacy management products, systems integrators and health service providers including those that own a vertically integrated mix of health services delivery, IT solutions, and related services, and global providers that could achieve expanded Canadian footprints; and our ability to successfully develop our smart data solutions business.
• **Technological substitution** including: reduced utilization and increased commoditization of traditional wireline voice services (local and long distance) from impacts of OTT applications and wireless substitution, a declining overall market for paid TV services, including as a result of content piracy and signal theft and as a result of a rise in OTT direct-to-consumer video offerings and virtual multichannel video programming distribution platforms, together with content costs per unit continuing to grow; the increasing number of households that have only wireless and/or Internet-based telephone services; potential mobile phone ABPU and mobile phone ARPU declines as a result of, among other factors, substitution to messaging and OTT applications; substitution to increasingly available Wi-Fi services; and disruptive technologies, such as OTT IP services, including Network as a Service in the business market, that may displace or re-rate our existing data services.

• **Technology** including: high subscriber demand for data that challenges wireless networks and spectrum capacity levels and may be accompanied by increases in delivery cost; our reliance on information technology and our need to streamline our legacy systems; the roll-out and evolution of wireless broadband technologies and systems, including video distribution platforms and telecommunications network technologies (broadband initiatives, such as fibre to the premises (FTTP), wireless small-cell deployment, 5G wireless and availability of resources and ability to build out adequate broadband capacity); our reliance on wireless network access agreements, which have facilitated our deployment of wireless technologies; choice of suppliers and those suppliers’ ability to maintain and service their product lines, which could affect the success of upgrades to, and evolution of, technology that we offer; supplier limitations and concentration and market power for network equipment, TELUS TV® and wireless handsets; the performance of wireless technology; our expected long-term need to acquire additional spectrum capacity through future spectrum auctions and from third parties to address increasing demand for data; deployment and operation of new wireline broadband network technologies at a reasonable cost and availability and success of new products and services to be rolled out using such network technologies; network reliability and change management; self-learning tools and automation that may change the way we interact with customers; and uncertainties around our strategy to replace certain legacy wireline network technologies, systems and services to reduce operating costs.

• **Capital expenditure levels and potential outlays for spectrum licences in spectrum auctions or from third parties.** due to: our broadband initiatives, including connecting more homes and businesses directly to fibre; our ongoing deployment of newer wireless technologies, including wireless small cells to improve coverage and capacity and prepare for a more efficient and timely evolution to 5G wireless services; utilizing acquired spectrum; investments in network resiliency and reliability; subscriber demand for data; evolving systems and business processes; implementing efficiency initiatives; supporting large complex deals; and future wireless spectrum auctions held by Innovation, Science and Economic Development Canada (ISED), including the 3500 MHz and millimetre wave spectrum auctions expected to take place in 2020 and 2021, respectively, and the announcement of a formal consultation on the auctioning of 3800 MHz spectrum, expected to take place in 2022. Our capital expenditure levels could be impacted if we do not achieve our targeted operational and financial results.

• **Operational performance and business combination risks** including: our reliance on legacy systems and ability to implement and support new products and services and business operations in a timely manner; our ability to implement effective change management for system replacements and upgrades, process redesigns and business integrations (such as our ability to successfully integrate acquisitions, complete divestitures or establish partnerships in a timely manner and realize expected strategic benefits, including those following compliance with any regulatory orders); our ability to identify and manage new risks inherent to new service offerings that we may offer; supplier limitations and concentration and market power for network equipment, TELUS TV® and wireless handsets; the performance of wireless technology; our expected long-term need to acquire additional spectrum capacity through future spectrum auctions and from third parties to address increasing demand for data; deployment and operation of new wireline broadband network technologies at a reasonable cost and availability and success of new products and services to be rolled out using such network technologies; network reliability and change management; self-learning tools and automation that may change the way we interact with customers; and uncertainties around our strategy to replace certain legacy wireline network technologies, systems and services to reduce operating costs.

• **Data protection** including risks that malfunctions or unlawful acts could result in the unauthorized access to, change, loss, or distribution of data, which may compromise the privacy of individuals and could result in financial loss and harm to our reputation and brand.

• **Security threats** including intentional damage or unauthorized access to our physical assets or our IT systems and networks, which could prevent us from providing reliable service or result in unauthorized access to our information or that of our customers.

• **Ability to successfully implement cost reduction initiatives and realize planned savings, net of restructuring and other costs, without losing customer service focus or negatively affecting business operations.** Examples of these initiatives are: our operating efficiency and effectiveness program to drive improvements in financial results; business integrations; business product simplification; business process outsourcing; offshoring and reorganizations, including any full-time equivalent (FTE) employee reduction programs; procurement initiatives; and real estate rationalization.

• **Implementation of large enterprise deals**, which may be adversely impacted by available resources, system limitations and degree of co-operation from other service providers.

• **Foreign operations** and our ability to successfully manage operations in foreign jurisdictions, including managing risks such as currency fluctuations.

• **Business continuity events** including: our ability to maintain customer service and operate our network in the event of human error or human-caused threats, such as cyberattacks and equipment failures that could cause various degrees of network outages; supply chain disruptions, delays and economics, including as a result of government restrictions or trade actions; natural disaster threats; epidemics; pandemics; political instability in certain international locations; information security and privacy breaches, including data loss or theft of data; and the completeness and effectiveness of business continuity and disaster recovery plans and responses.
• **Human resource matters** including: recruitment, retention and appropriate training in a highly competitive industry, and the level of our employee engagement.

• **Financing and debt requirements** including: our ability to carry out financing activities, refinance our maturing debt and/or maintain investment grade credit ratings in the range of BBB+ or the equivalent. Our business plans and growth could be negatively affected if existing financing is not sufficient to cover our funding requirements.

• **Lower than planned free cash flow could constrain our ability to invest in operations, reduce leverage or return capital to shareholders, and could affect our ability to sustain our dividend growth program through 2022.** This program may be affected by factors such as the competitive environment, economic performance in Canada, our earnings and free cash flow, our levels of capital expenditures and spectrum licence purchases, acquisitions, the management of our capital structure, and regulatory decisions and developments. Quarterly dividend decisions are subject to assessment and determination by our Board of Directors based on our financial position and outlook. Shares may be purchased under our normal course issuer bid (NCIB) when and if we consider it opportunistic, based on our financial position and outlook, and the market price of TELUS common shares. There can be no assurance that our dividend growth program or any NCIB will be maintained, not changed and/or completed.

• **Taxation matters** including: interpretation of complex domestic and foreign tax laws by the relevant tax authorities that may differ from our interpretations; the timing and character of income and deductions, such as tax depreciation and operating expenses; tax credits or other attributes; changes in tax laws, including tax rates; tax expenses being materially different than anticipated, including the taxability of income and deductibility of tax attributes; elimination of income tax deferrals through the use of different tax year-ends for operating partnerships and corporate partners; and changes to the interpretation of tax laws, including as a result of changes to applicable accounting standards or tax authorities adopting more aggressive auditing practices, tax reassessments or adverse court decisions impacting the tax payable by us.

• **Litigation and legal matters** including: our ability to successfully respond to investigations and regulatory proceedings; our ability to defend against existing and potential claims and lawsuits (including intellectual property infringement claims and class actions based on consumer claims, data, privacy or security breaches and secondary market liability), or to negotiate and execute upon indemnity rights or other protections in respect of such claims and lawsuits; and the complexity of legal compliance in domestic and foreign jurisdictions, including compliance with competition, anti-bribery and foreign corrupt practices laws.

• **Health, safety and the environment** including: lost employee work time resulting from illness or injury, public concerns related to radio frequency emissions, environmental issues affecting our business including climate change, waste and waste recycling, risks relating to fuel systems on our properties, and changing government and public expectations regarding environmental matters and our responses.

• **Economic growth and fluctuations** including: the state of the economy in Canada, which may be influenced by economic and other developments outside of Canada, including potential outcomes of yet unknown policies and actions of foreign governments; expectations of future interest rates; inflation; unemployment levels; effects of fluctuating oil prices; effects of low business spending (such as reducing investments and cost structure); pension investment returns, funding and discount rates; fluctuations in foreign exchange rates of the currencies in the regions in which we operate, the impact of tariffs on trade between Canada and the U.S., and global implications of the trade dynamic between the U.S. and China.

These risks are described in additional detail in **Section 9 General trends, outlook and assumptions, and regulatory developments and proceedings** and **Section 10 Risks and risk management** in our 2018 annual MD&A. Those descriptions are incorporated by reference in this cautionary statement but are not intended to be a complete list of the risks that could affect the Company.

Many of these factors are beyond our control or our current expectations or knowledge. Additional risks and uncertainties not currently known to us or that we currently deem to be immaterial may also have a material adverse effect on our financial position, financial performance, cash flows, business or reputation. Except as otherwise indicated in this document, the forward-looking statements made herein do not reflect the potential impact of any non-recurring or special items or any mergers, acquisitions, dispositions or other business combinations or transactions that may be announced or that may occur after the date of this document.

Readers are cautioned not to place undue reliance on forward-looking statements. Forward-looking statements in this document describe our expectations and are based on our assumptions as at the date of this document and are subject to change after this date. Except as required by law, we disclaim any intention or obligation to update or revise any forward-looking statements.

This cautionary statement qualifies all of the forward-looking statements in this MD&A.
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1. Introduction

The forward-looking statements in this section, including estimates regarding economic growth, unemployment and housing starts, are qualified by the Caution regarding forward-looking statements at the beginning of this Management’s discussion and analysis (MD&A).

1.1 Preparation of the MD&A

The following sections are a discussion of our consolidated financial position and financial performance for the three-month and nine-month periods ended September 30, 2019, and should be read together with our September 30, 2019, condensed interim consolidated statements of income and other comprehensive income, statements of financial position, statements of changes in owners’ equity and statements of cash flows, and the related notes (collectively referred to as the interim consolidated financial statements). The generally accepted accounting principles (GAAP) that we use are International Financial Reporting Standards (IFRS) as issued by the International Accounting Standards Board (IASB). Our interim consolidated financial statements comply with IFRS-IASB and Canadian GAAP and have been prepared in accordance with International Accounting Standard 34, Interim Financial Reporting. In this MD&A, the term IFRS refers to these standards. We adopted IFRS 16, Leases, on January 1, 2019, with retrospective application, with the cumulative effect of the initial application of the new standard recognized at the date of initial application, January 1, 2019. This method of application does not result in the retrospective adjustment of amounts reported for periods prior to fiscal 2019. The most significant effect of the new standard is the lessee’s recognition of the initial present value of unavoidable future lease payments as right-of-use lease assets and lease liabilities, including those for most leases that would have previously been accounted for as operating leases. This results in depreciation of right-of-use lease assets and financing costs arising from lease liabilities, rather than as part of Goods and services purchased. The adoption of the new standard has resulted in an increase to Property, plant and equipment of approximately $1.0 billion and long-term debt of approximately $1.4 billion as at January 1, 2019. However, the implementation of IFRS 16 does not have any impact on economics or cash flows. In our discussion, we also use certain non-GAAP financial measures to evaluate our performance, monitor compliance with debt covenants and manage our capital structure. These measures are defined, qualified and reconciled with their nearest GAAP measures in Section 11.1. All currency amounts are in Canadian dollars, unless otherwise specified.

Additional information relating to the Company, including our annual information form and other filings with securities commissions or similar regulatory authorities in Canada, is available on SEDAR (sedar.com). Our filings with the Securities and Exchange Commission in the United States, including Form 40-F, are available on EDGAR (sec.gov).

Our disclosure controls and procedures are designed to provide reasonable assurance that all relevant information is gathered and reported to senior management on a timely basis, so that appropriate decisions can be made regarding public disclosure. This MD&A and the interim consolidated financial statements were reviewed by our Audit Committee and authorized by our Board of Directors (Board) for issuance on November 7, 2019.

In this MD&A, unless otherwise indicated, results for the third quarter of 2019 (three-month period ended September 30, 2019) and the nine-month period ended September 30, 2019 are compared with results from the third quarter of 2018 (three-month period ended September 30, 2018) and the nine-month period ended September 30, 2018.

1.2 The environment in which we operate

The success of our business and the challenges we face can best be understood with reference to the environment in which we operate, including broader economic factors that affect our customers and us, and the competitive nature of our operations. Our estimates regarding our environment, including economic growth, unemployment and housing starts, also form an important part of the assumptions on which our targets are based. The extent to which these estimates affect us and the timing of their impact will depend upon the actual experience of specific sectors of the Canadian economy.
1.3 Consolidated highlights

Long-term debt issue and early redemption of 2020 Notes
On July 2, 2019, we issued $800 million of senior unsecured 2.75% Notes, Series CZ, which will mature on July 8, 2026.

On May 31, 2019, we exercised our right to early redeem, on July 23, 2019, $650 million of our 5.05% Notes, Series CH. On July 3, 2019, we exercised our right to early redeem, on August 7, 2019, the remaining $350 million not called for redemption on May 31, 2019. The long-term debt prepayment premium for the entire $1 billion Series CH notes redemption recorded in the third quarter of 2019 was $28 million before income taxes ($0.03 per share after income taxes).

Spectrum
During the third quarter of 2019, we obtained the use of AWS-4 spectrum licences from the original licensee (for approximately $1.16 per MHz-pop, where pop refers to the population in a licence area), and have accounted for them as intangible assets with indefinite lives; such subordination of licences has been approved by Innovation, Science and Economic Development Canada. The terms of payment for the obtained spectrum licences are such that the amounts owed to the original licensee are accounted for as a long-term financial liability in the amount of approximately $270 million, as set out in Note 26(f) of the interim consolidated financial statements.

Smart data solutions business
On August 12, 2019, for consideration consisting of cash and accounts payable and accrued liabilities of $135 million, we acquired a business complementary to, and with a view to growing, our existing smart data solutions business.

ADT Security Services Canada, Inc.
On October 1, 2019, we announced that we had entered into an agreement to acquire all the issued and outstanding shares of ADT Security Services Canada, Inc. for approximately $700 million, subject to customary closing conditions including regulatory approval. Subsequently, the requisite approval was obtained and the transaction was closed. This agreement furthers our commitment to leverage the power of technology to enhance convenience, control and safety into the lives, homes and businesses of more Canadians.

Changes to the Board of Directors
During the third quarter of 2019, Claude Mongeau stepped down from our Board. Claude joined the TELUS Board in 2017 and has served on both the Audit and Corporate Governance Committees. His considerable skills and experience in areas including strategic leadership, risk management, and finance and accounting made him an important contributor to the Board and his insights will be missed. We thank Claude for his outstanding contribution and service to TELUS.
### Consolidated highlights

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<th>($ millions, except footnotes and unless noted otherwise)</th>
<th>Third quarters ended September 30</th>
<th>Nine-month periods ended September 30</th>
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<td></td>
<td>2019</td>
<td>2018</td>
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<tr>
<td><strong>Consolidated statements of income</strong></td>
<td></td>
<td></td>
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<tr>
<td>Revenues arising from contracts with customers</td>
<td>3,687</td>
<td>3,591</td>
</tr>
<tr>
<td>Operating income</td>
<td>10</td>
<td>183</td>
</tr>
<tr>
<td>Operating revenues</td>
<td>3,697</td>
<td>3,774</td>
</tr>
<tr>
<td>Operating income^1</td>
<td>785</td>
<td>777</td>
</tr>
<tr>
<td>Income before income taxes</td>
<td>584</td>
<td>581</td>
</tr>
<tr>
<td>Net income</td>
<td>440</td>
<td>447</td>
</tr>
<tr>
<td>Net income attributable to Common Shares^2</td>
<td>433</td>
<td>443</td>
</tr>
<tr>
<td>Adjusted Net income</td>
<td>458</td>
<td>445</td>
</tr>
<tr>
<td>Earnings per share (EPS) ($)</td>
<td>0.72</td>
<td>0.74</td>
</tr>
<tr>
<td>Basic EPS^2</td>
<td>0.76</td>
<td>0.74</td>
</tr>
<tr>
<td>Diluted EPS</td>
<td>0.72</td>
<td>0.74</td>
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<tr>
<td>Dividends declared per Common Share ($)</td>
<td>0.5625</td>
<td>0.5250</td>
</tr>
<tr>
<td>Basic weighted-average Common Shares outstanding (m)</td>
<td>602</td>
<td>597</td>
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**Consolidated statements of cash flows**

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<tr>
<th></th>
<th>2019</th>
<th>2018</th>
<th>Change</th>
<th>2019</th>
<th>2018</th>
<th>Change</th>
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<tr>
<td>Cash provided by operating activities</td>
<td>1,148</td>
<td>1,066</td>
<td>7.7%</td>
<td>3,098</td>
<td>3,110</td>
<td>(0.4)%</td>
</tr>
<tr>
<td>Cash used by investing activities</td>
<td>(871)</td>
<td>(621)</td>
<td>40.3%</td>
<td>(3,433)</td>
<td>(3,248)</td>
<td>46.2%</td>
</tr>
<tr>
<td>Acquisitions</td>
<td>(160)</td>
<td>(34)</td>
<td>n/m</td>
<td>(348)</td>
<td>(285)</td>
<td>22.1%</td>
</tr>
<tr>
<td>Capital expenditures^4</td>
<td>(748)</td>
<td>(762)</td>
<td>(1.8)%</td>
<td>(2,164)</td>
<td>(2,203)</td>
<td>(1.8)%</td>
</tr>
<tr>
<td>Cash (used) provided by financing activities</td>
<td>(124)</td>
<td>(695)</td>
<td>(82.2)%</td>
<td>291</td>
<td>(838)</td>
<td>n/m</td>
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**Other highlights**

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<th>14,500</th>
<th>13,784</th>
<th>5.2%</th>
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<td>Subscribers connections^5,6 (thousands)</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Earnings before interest, income taxes, depreciation and amortization (#EBITDA)^2,3</td>
<td>1,434</td>
<td>1,349</td>
<td>6.3%</td>
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<tr>
<td>Restructuring and other costs^3,7</td>
<td>29</td>
<td>173</td>
<td>(83.2)%</td>
</tr>
<tr>
<td>Adjusted #EBITDA^8,9</td>
<td>1,463</td>
<td>1,351</td>
<td>8.3%</td>
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<td>Adjusted #EBITDA margin (%)</td>
<td>39.6</td>
<td>37.5</td>
<td>2.1 pts.</td>
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<td>Free cash flow^3</td>
<td>320</td>
<td>303</td>
<td>5.6%</td>
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<tr>
<td>Net debt to EBITDA – excluding restructuring and other costs^3 (times)</td>
<td>3.05</td>
<td>2.54</td>
<td>0.51</td>
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**Notations used in #MD&A:** n/m – not meaningful; pts. – percentage points.

1. In the third quarter of 2018, we recorded equity income related to real estate joint ventures of $171 million arising from the sale of TELUS Garden.
2. Excluding the effect of this third quarter 2018 equity income, other operating income decreased by 16.7% in the third quarter of 2019 and 27.5% in the first nine months of 2019, and Operating revenues increased by 2.6% in the third quarter of 2019 and 3.5% in the first nine months of 2019.
3. Excluding the third quarter 2018 equity income described in footnote 1 and the third quarter 2018 donation described in footnote 7, in the third quarter of 2019, Operating income increased by 8.4%, Income before income taxes increased by 10.6%, Net income increased by 13.7%, Net income attributable to Common Shares increased by 13.1%, basic EPS increased by 12.5% and #EBITDA increased by 10.6%, and in the first nine months of 2019, Operating income increased by 7.1%, Income before income taxes increased by 5.9%, Net income increased by 16.8%, Net income attributable to Common Shares increased by 16.5%, basic EPS increased by 15.1% and #EBITDA increased by 9.7%.
4. These are non-GAAP and other financial measures. See Section 11.1 Non-GAAP and other financial measures.
5. The sum of active mobile phone subscribers, mobile connected device subscribers, Internet access subscribers, residential voice subscribers, TV subscribers and security subscribers, measured at the end of the respective periods based on information in billing and other systems. Fourth quarter of 2018 opening mobile phone subscriber connections have been adjusted to exclude an estimated 23,000 subscribers impacted by the CRTC’s final pro-rating in June 2018, which was effective October 1, 2018. During the first quarter of 2019, we adjusted cumulative Internet subscriber connections to add approximately 16,000 subscribers from acquisitions undertaken during the quarter. Effective for the third quarter of 2019, with retrospective application to the launch of TELUS-branded security services at the beginning of the third quarter of 2018, we have added security subscriber connections to our total subscriber connections.
6. Effective for the first quarter of 2019, with retrospective application, we revised our definition of a wireless subscriber and now report mobile phones and mobile connected devices as separate subscriber bases so as to be consistent with the way we manage our business and to align with global peers. As a result of the change, total subscribers and associated operating statistics (gross additions, net additions, churn, average billing per subscriber per month or ARPU, and average revenue per subscriber per month or ARPU) were adjusted to reflect (i) the movement of certain subscribers from the mobile phones subscriber base to the newly created mobile connected devices subscriber base, and (ii) the inclusion of previously undisclosed IoT and mobile health subscribers in our mobile connected devices subscriber base. For additional information on our subscriber definitions, see Section 11.2 Operating indicators.
7. In the third quarter of 2018, we recorded a donation to the TELUS Friendly Future Foundation of $118 million as part of other costs.
8. Adjusted #EBITDA for all periods excludes restructuring and other costs (see Section 11.1 for restructuring and other costs amounts). Adjusted #EBITDA for all periods excludes non-recurring gains and equity income related to real estate joint ventures.
9. Adjusted #EBITDA margin is Adjusted #EBITDA divided by Operating revenues, where the calculation of Operating revenues excludes non-recurring gains and equity income related to real estate joint ventures.
Operating highlights

- **Consolidated operating revenues** decreased by $77 million in the third quarter of 2019 and increased by $196 million in the first nine months of 2019. Excluding the effect of the non-recurring third quarter 2018 equity income related to real estate joint ventures arising from the sale of TELUS Garden of $171 million, consolidated operating revenues increased by $94 million in the third quarter of 2019 and $367 million in the first nine months of 2019:

  Service revenues increased by $109 million in the third quarter of 2019 and $376 million in the first nine months of 2019, mainly due to growth in wireless network revenue and wireline data services revenue. This growth was partly offset by the ongoing declines in wireline legacy voice and legacy data service revenues.

  Equipment revenues decreased by $13 million in the third quarter of 2019 reflecting lower wireless volumes and lower wireline data and voice equipment sales. In the first nine months of 2019, equipment revenues increased by $5 million, primarily due to increased wireless revenue from greater volumes of higher-value smartphones in the sales mix.

  Other operating income decreased by $173 million in the third quarter of 2019 and $185 million in the first nine months of 2019, primarily due to the non-recurrence of third quarter 2018 equity income related to real estate joint ventures arising from the sale of TELUS Garden of $171 million.

For additional details on operating revenues, see **Section 5.4 Wireless segment** and **Section 5.5 Wireline segment**.

- During the 12-month period ending on September 30, 2019, our total **subscriber connections** increased by 716,000 reflecting a 3.1% increase in mobile phone subscribers, a 23.3% increase in mobile connected device subscribers, a 6.7% increase in Internet subscribers, a 7.1% increase in TV subscribers and a 51.5% increase in security subscribers, partly offset by a 3.5% decline in residential voice subscribers.

  Effective for the first quarter of 2019, with retrospective application, we have revised our definition of a mobile phone subscriber, see **Section 11.2 Operating indicators** for definitions. Our mobile phone net additions were 111,000 in the third quarter of 2019 and 204,000 in the first nine months of 2019, down 10,000 and up 17,000, respectively, from the same periods in 2018. The decrease in the third quarter of 2019 reflects heightened competitive intensity during the seasonal promotional period. For the first nine months of 2019, the increase in mobile phone net additions was attributed to growth in high-value customer additions, from growth in the Canadian population, successful promotions and expanded channels. Mobile connected device net additions were 82,000 in the third quarter of 2019 and 203,000 in the first nine months of 2019, up 32,000 in the quarter and 75,000 in the nine-month period, due to growth in our IoT offerings, including the connected device growth arising from our subscribers expanding their IoT services to their growing customer bases, partially offset by less low or negative-margin tablet loading. Our mobile phone churn rate was 1.09% in the third quarter of 2019 and 1.04% in the first nine months of 2019, up from 1.03% in the third quarter of 2018 reflecting heightened competitive intensity, and flat in the first nine months of 2019. (See **Section 5.4 Wireless segment** for additional details.)

  Internet net additions were 32,000 in the third quarter of 2019 and 79,000 in the first nine months of 2019, down 4,000 and 8,000, respectively, from the same periods in 2018, as continued net new demand from consumers and businesses, partly due to the launch of unlimited home Internet data, was offset by heightened competitive intensity. TV net additions were 19,000 in the third quarter of 2019 and 52,000 in the first nine months of 2019, up 1,000 in the quarter and 13,000 in the nine-month period. The increase for the quarter reflects higher gross additions as a result of our diverse product offerings, partly offset by competitive intensity, and by a lower customer churn rate resulting from stronger retention efforts for the nine-month period. Our continued focus on expanding our addressable high-speed Internet and Optik TV® footprint, connecting more homes and businesses directly to fibre, diversifying our product offerings, and bundling these products and services together, as well as our ongoing focus on our customer service and reliability, contributed to combined Internet and TV subscriber growth of 199,000 or 6.9% over the last 12 months. We had made TELUS PureFibre® available to approximately 67% of our broadband footprint by September 30, 2019. Residential voice net losses were flat in the quarter and improved by 15.8% in the first nine months of 2019, due to our expanding fibre footprint and bundled product offerings and the success of our stronger retention efforts, including lower-priced offerings. (See **Section 5.5 Wireline segment** for additional details.)
• **Operating income** increased by $8 million in the third quarter of 2019 and $99 million in the first nine months of 2019. Excluding the effect of non-recurring third quarter 2018 equity income related to real estate joint ventures arising from the sale of TELUS Garden of $171 million and the third quarter 2018 donation to the TELUS Friendly Future Foundation of $118 million, Operating income increased by $61 million in the third quarter of 2019 and $152 million in the first nine months of 2019, reflecting higher wireless network growth driven by a growing subscriber base and higher wireless equipment margins. These increases also reflect growth in wireline data service margins and EBITDA contribution from our customer care and business services (CCBS) and health businesses, and the effects of implementing IFRS 16 described in Section 1.1. All of these factors were partly offset by declines from wireline legacy voice and legacy data services.

  EBITDA, which includes restructuring and other costs and non-recurring gains and equity income related to real estate joint ventures, increased by $85 million or 6.3% in the third quarter of 2019 and $317 million or 8.2% in the first nine months of 2019. Excluding the effects of non-recurring third quarter 2018 equity income related to real estate joint ventures arising from the sale of TELUS Garden of $171 million and the third quarter 2018 donation to the TELUS Friendly Future Foundation of $118 million, EBITDA increased by $138 million or 10.6% in the third quarter of 2019 and $370 million or 9.7% in the first nine months of 2019.

  Adjusted EBITDA, which excludes restructuring and other costs and non-recurring gains and equity income related to real estate joint ventures, increased by $112 million or 8.3% in the third quarter of 2019 and $340 million or 8.6% in the first nine months of 2019. The increases reflect higher wireless network revenue driven by a growing subscriber base, growth in wireline data service margins and a higher EBITDA contribution from our CCBS and health businesses. Additionally, upon the application of IFRS 16, Goods and services purchased decreased and, correspondingly, Adjusted EBITDA increased. These factors were partly offset by declines in wireline legacy voice and legacy data services and a decline in the EBITDA contribution from our legacy business services. Applying a retrospective IFRS 16 simulation to fiscal 2018 results, which are cash-based proxy adjustments, all as used by our Chief Executive Officer (our chief operating decision-maker) to assess performance, pro forma consolidated Adjusted EBITDA growth was approximately 4.1% in the third quarter of 2019 and 4.3% in the first nine months of 2019. (See Section 5.3 Consolidated operations for additional details.)

• **Income before income taxes** increased by $3 million in the third quarter of 2019 and $43 million in the first nine months of 2019. Excluding the effects of non-recurring third quarter 2018 equity income related to real estate joint ventures arising from the sale of TELUS Garden of $171 million and the third quarter 2018 donation to the TELUS Friendly Future Foundation of $118 million, Income before income taxes increased by $56 million in the third quarter of 2019 and $96 million in the first nine months of 2019. Higher Operating income, as noted above, was partly offset by an increase in Financing costs. The increase in Financing costs resulted primarily from the financing costs recorded that arose from lease liabilities upon the application of IFRS 16 described in Section 1.1 and from higher average long-term debt outstanding. (See Financing costs in Section 5.3.)

• **Income taxes** increased by $10 million in the third quarter of 2019 and decreased by $98 million in the first nine months of 2019. The effective tax rate increased from 23.1% to 24.7% in the third quarter of 2019 largely resulting from the lower capital gain rate on the TELUS Garden sale in the third quarter of 2018. In the first nine months of 2019, the effective tax rate decreased from 25.5% to 19.2% predominantly attributed to the revaluation of the deferred income tax liability for the multi-year reduction in the Alberta provincial corporate tax rate that was substantively enacted in the second quarter of 2019.

• **Net income attributable to Common Shares** decreased by $10 million in the third quarter of 2019 and increased by $135 million in the first nine months of 2019. Excluding the effects of non-recurring third quarter 2018 equity income related to real estate joint ventures arising from the sale of TELUS Garden of $171 million and the third quarter 2018 donation to the TELUS Friendly Future Foundation of $118 million, Net income attributable to Common Shares increased by $50 million in the third quarter of 2019 attributable to higher Operating income, partly offset by increased Income taxes and increased Financing costs. In the first nine months of 2019, excluding the effects of the third quarter 2018 equity income and the third quarter 2018 donation, Net income attributable to Common Shares increased by $195 million, driven by higher Operating income and lower Income taxes, partly offset by increased Financing costs.

  Adjusted Net income, which excludes the effects of restructuring and other costs, income tax-related adjustments, non-recurring gains and equity income related to real estate joint ventures, and long-term debt prepayment premiums, increased by $13 million or 2.9% in the third quarter of 2019 and $33 million or 2.6% in the first nine months of 2019.
Reconciliation of adjusted Net income

<table>
<thead>
<tr>
<th>($ millions)</th>
<th>Third quarters ended September 30</th>
<th>Nine-month periods ended September 30</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2019</td>
<td>2018</td>
</tr>
<tr>
<td>Net income attributable to Common Shares</td>
<td>433</td>
<td>443</td>
</tr>
<tr>
<td>Add (deduct):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Restructuring and other costs, after income taxes¹</td>
<td>22</td>
<td>130</td>
</tr>
<tr>
<td>Favourable income tax-related adjustments</td>
<td>(17)</td>
<td>(3)</td>
</tr>
<tr>
<td>Non-recurring gains and equity income related to real estate joint ventures, after income taxes²</td>
<td>—</td>
<td>(150)</td>
</tr>
<tr>
<td>Long-term debt prepayment premium, after income taxes</td>
<td>20</td>
<td>25</td>
</tr>
<tr>
<td>Adjusted Net income</td>
<td>458</td>
<td>445</td>
</tr>
</tbody>
</table>

¹ Includes our third quarter 2018 donation to the TELUS Friendly Future Foundation of $90 million after income taxes.
² Includes equity income arising from the third quarter 2018 sale of TELUS Garden of $150 million after income taxes.

- **Basic EPS** decreased by $0.02 or 2.7% in the third quarter of 2019 and increased by $0.20 or 6.9% in the first nine months of 2019. Excluding the effects of non-recurring third quarter 2018 equity income related to real estate joint ventures arising from the sale of TELUS Garden of $171 million and the third quarter 2018 donation to the TELUS Friendly Future Foundation of $118 million, basic EPS increased by $0.08 or 12.5% in the third quarter of 2019 attributed to higher Operating income, partly offset by increase Income taxes and increased Financing costs. In the first nine months of 2019, excluding the effects of the third quarter 2018 equity income and the third quarter 2018 donation, basic EPS increased by $0.30 or 15.1%, driven by higher Operating income and lower Income taxes, partly offset by increased Financing costs and the effect of a higher number of Common Shares outstanding.

Adjusted basic EPS, which excludes the effects of restructuring and other costs, income tax-related adjustments, non-recurring gains and equity income related to real estate joint ventures, and long-term debt prepayment premiums, increased by $0.02 or 2.7% in the third quarter of 2019 and increased by $0.03 or 1.4% in the first nine months of 2019.

Reconciliation of adjusted basic EPS

<table>
<thead>
<tr>
<th>($)</th>
<th>Third quarters ended September 30</th>
<th>Nine-month periods ended September 30</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2019</td>
<td>2018</td>
</tr>
<tr>
<td>Basic EPS</td>
<td>0.72</td>
<td>0.74</td>
</tr>
<tr>
<td>Add (deduct):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Restructuring and other costs, after income taxes, per share¹</td>
<td>0.04</td>
<td>0.22</td>
</tr>
<tr>
<td>Favourable income tax-related adjustments, per share</td>
<td>(0.03)</td>
<td>(0.01)</td>
</tr>
<tr>
<td>Non-recurring gains and equity income related to real estate joint ventures, after income taxes, per share²</td>
<td>—</td>
<td>(0.25)</td>
</tr>
<tr>
<td>Long-term debt prepayment premium, after income taxes, per share</td>
<td>0.03</td>
<td>0.04</td>
</tr>
<tr>
<td>Adjusted basic EPS</td>
<td>0.76</td>
<td>0.74</td>
</tr>
</tbody>
</table>

¹ Includes our third quarter 2018 donation to the TELUS Friendly Future Foundation of $0.15 per share after income taxes.
² Includes equity income arising from the third quarter 2018 sale of TELUS Garden of $0.25 per share after income taxes.

- **Dividends declared per Common Share** were $0.5625 in the third quarter of 2019 and $1.6700 in the first nine months of 2019, reflecting increases of 7.1% from the third quarter of 2018 and 7.4% from the first nine months of 2018. Consistent with our target of increasing dividends between 7 to 10% in the near term, the Board declared a fourth quarter dividend of $0.5825 per share on the issued and outstanding Common Shares, payable on January 2, 2020, to shareholders of record at the close of business on December 11, 2019. The fourth quarter dividend increased by $0.0375 per share or 6.9% from the $0.5450 per share dividend declared one year earlier, consistent with our multi-year dividend growth program described in Section 4.3 Liquidity and capital resources.
Liquidity and capital resource highlights

- **Net debt to EBITDA – excluding restructuring and other costs** ratio was 3.05 times at September 30, 2019, up from 2.54 times at September 30, 2018, as the increase in net debt, partly attributed to the acquisition of spectrum licences, and which includes the $1.6 billion recognition of lease liabilities upon the application of IFRS 16, exceeded the effect of the increase in EBITDA – excluding restructuring and other costs (including that the transition method for IFRS 16 has currently only included nine months’ effect on the trailing EBITDA). As at September 30, 2019, the acquisition of spectrum licences increased the ratio by approximately 0.22; the implementation of IFRS 16 had the combined effect of increasing the ratio by approximately 0.17; and business acquisitions over the last 12 months increased the ratio by approximately 0.06. (See Section 4.3 Liquidity and capital resources and Section 7.5 Liquidity and capital resource measures.)

- **Cash provided by operating activities** increased by $82 million in the third quarter of 2019, primarily due to other operating working capital changes and growth in EBITDA, partly offset by higher restructuring and other costs disbursements, net of expense and Shares settled from Treasury, as well as increased income taxes paid. In the first nine months of 2019, Cash provided by operating activities decreased by $12 million, largely attributed to increased income tax payments which mainly reflected a higher final income tax payment of $270 million, in the first quarter of 2019, for the 2018 income tax year; higher restructuring and other costs disbursements, net of expense and Shares settled from Treasury; and increased interest paid. All of these were partially offset by other operating working capital changes and growth in EBITDA. Additionally, repayments of lease liabilities under IFRS 16 increased Cash provided by operating activities by $38 million in the third quarter of 2019 and $165 million in the first nine months of 2019, as described in Section 7.2 Cash provided by operating activities.

- **Cash used by investing activities** increased by $250 million in the third quarter of 2019 primarily attributed to the non-recurring real estate joint venture receipts, net of advances arising from the sale of TELUS Garden recorded in the third quarter of 2018. In the first nine months of 2019, Cash used by investing activities increased by $1,085 million, largely attributed to the cash payment for the 600 MHz spectrum acquisition of $931 million, in addition to the non-recurring real estate joint venture receipts, net of advances. **Acquisitions** increased by $126 million in the third quarter of 2019 and $63 million in the first nine months of 2019 as we made larger cash payments for business acquisitions in both of those periods. **Capital expenditures** decreased by $14 million in the third quarter of 2019 and $39 million in the first nine months of 2019, primarily due to the timing of our fibre build activities, partially offset by increased 5G investments which began in the fourth quarter of 2018. We have made TELUS PureFibre available to approximately 67% of our broadband footprint at September 30, 2019. (See Section 7.3 Cash used by investing activities.)

- **Cash used by financing activities** decreased by $571 million in the third quarter of 2019 and $1,129 million in the first nine months of 2019, primarily reflecting increased issues of long-term debt, net of redemptions. (See Section 7.4 Cash (used) provided by financing activities.)

- **Free cash flow** increased by $17 million in the third quarter of 2019, largely from higher Adjusted EBITDA and the timing of device subsidy repayments and associated revenue recognition, including the introduction of TELUS Easy Payment device financing, partially offset by increased income taxes paid and interest paid. Free cash flow decreased by $278 million in the first nine months of 2019, resulting primarily from increased income tax payments which mainly reflected a higher final income tax payment of $270 million, in the first quarter of 2019, for the 2018 income tax year as described in Cash provided by operating activities, and increased interest paid. The free cash flow decrease in the first nine months of 2019 was partly offset by higher Adjusted EBITDA, lower capital expenditures and the timing of device subsidy repayments and associated revenue recognition. Our definition of free cash flow is unaffected by accounting changes that do not impact cash, such as IFRS 15 and IFRS 16. (See calculation in Section 11.1 Non-GAAP and other financial measures.)

2. Core business and strategy

Our core business and our strategic imperatives were described in our 2018 annual MD&A.
3. Corporate priorities for 2019

Our annual corporate priorities are used to advance our long-term strategic imperatives and address near-term opportunities and challenges. The following table provides a discussion of activities and initiatives that relate to our 2019 corporate priorities.

<table>
<thead>
<tr>
<th>Honouring our customers, communities and social purpose by our team delivering on our brand promise</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Received the BEST Award for excellence in employee learning and development from the Association for Talent Development for the 14th consecutive year.</td>
</tr>
<tr>
<td>• In August 2019, our TELUS Wise® happiness workshop became available online, coinciding with the start of the new school year. The workshop engages teens in grades 9 through 12 in a conversation about building and maintaining a healthy relationship with technology and offers tips on ensuring resiliency and well-being in our connected world.</td>
</tr>
<tr>
<td>• In September 2019, we were recognized for corporate social responsibility by being named to the Dow Jones Sustainability North American Index for the 19th consecutive year. Additionally, we were named to the Dow Jones Sustainability World Index for the fourth year in a row, one of only nine telecommunications companies globally and the only North American telecommunications company in the World Index this year.</td>
</tr>
<tr>
<td>• During the quarter, we launched unlimited home Internet data across all speed tiers available to new and renewing customers. Western Canadians can enjoy the freedom of unlimited home Internet data bringing peace of mind to customers without worrying about data overages.</td>
</tr>
<tr>
<td>• In the third quarter, we launched our integrated Pride campaign, promoting and celebrating our long-standing commitment to fostering a diverse and inclusive culture under our TELUS #ShareLove platform. Throughout the summer, more than 1,650 TELUS and Koodo team members, friends and family marched in nearly 20 Pride celebrations across Canada, and we reached more than 41,000 customers nationally at various TELUS-sponsored Pride events and regional Pride festivals.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Leveraging our broadband networks to drive TELUS’ growth</th>
</tr>
</thead>
<tbody>
<tr>
<td>• During the quarter, we launched TELUS Home Assistant powered by Google, a platform that gives TELUS Optik TV customers the ability to control their entertainment experience hands-free using voice commands, at no additional cost.</td>
</tr>
<tr>
<td>• Upon the opening of the O-Train Confederation line in Ottawa in September 2019, we commenced providing free Wi-Fi service in three downtown, underground Line 1 stations’ platforms and door-to-door cellular service, including through the downtown tunnel. The continuous cellular connection between stations and in the tunnel ensures that customers will not miss calls or be disconnected during their time underground.</td>
</tr>
<tr>
<td>• In September 2019, we entered into a long-term arrangement with Zú, a Montreal-based organization with the mission to develop leading-edge innovative projects in the entertainment sector, to launch an experimental 5G laboratory entirely dedicated to the creative and entertainment industry.</td>
</tr>
<tr>
<td>• In September 2019, we launched our TELUS IoT Shop, a self-serve online portal that enables businesses to easily purchase and manage prepaid Internet of Things (IoT) connectivity. Ideal for businesses as start-ups and developer labs, the TELUS IoT Shop makes it easy for them to connect their IoT devices to our network.</td>
</tr>
<tr>
<td>• We reached a reciprocal roaming agreement with AT&amp;T in September 2019. For customers on a qualifying rate plan, this agreement will allow their IoT devices to roam in the U.S.</td>
</tr>
<tr>
<td>• In Opensignal’s Mobile Network Experience: Canada Report (August 2019), we won the top spot in four awards (4G Availability, Video Experience, Download Speed Experience and Latency Experience) and tied for number one in the fifth award (Upload Speed Experience). We were also the first Canadian operator to surpass the 90% milestone in 4G Availability.</td>
</tr>
<tr>
<td>• According to PCMag’s Fastest Mobile Network Canada 2019 report released in September 2019, we were named as having the fastest mobile network nationally, for the third consecutive year. We were also ranked as having the fastest network in certain markets across Canada including Victoria, Calgary, Edmonton, Regina, Winnipeg, Toronto, Ottawa, Montreal, Quebec City, Saint John, Halifax and Prince Edward Island. Additionally, TELUS was recognized as having the best wireless plan in Canada.</td>
</tr>
<tr>
<td>• Based on second quarter 2019 to third quarter 2019 data from Ookla’s Speedtest Intelligence, we were recognized as the fastest mobile operator in Canada, while Canada as a country ranked fourth in the world for average mobile download speed.</td>
</tr>
<tr>
<td>• Following our completion of construction of a new cell tower in the Village of Port Clements on Haida Gwaii, residents, visitors and local businesses have access to high-speed wireless voice and Internet services over 4G LTE for the first time.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fuelling our future through recurring efficiency gains</th>
</tr>
</thead>
<tbody>
<tr>
<td>• We are continuing to focus on the expansion of customer self-serve adoption, which benefits both client satisfaction and company productivity, through virtual assistants and digital platforms, while improving team member productivity by utilizing robotic process automation.</td>
</tr>
<tr>
<td>• We have established an ongoing program that integrates our acquisitions, evolves stakeholder relationships, and simplifies our business. This program improves our overall organizational efficiency while driving cost savings and working capital benefits to be re-invested in our customers first strategy.</td>
</tr>
<tr>
<td>• In 2019, we undertook three debt offerings of $1.0 billion, US$500 million and $800 million, respectively. These offerings lowered our weighted average cost of long-term debt and increased our average term-to-maturity, providing us with additional flexibility to manage and grow our business.</td>
</tr>
</tbody>
</table>
With our Peace of Mind™ rate plans and TELUS Easy Payment® device financing options, in addition to our TELUS Family Discounts, we have streamlined our suite of offerings. This simplification has made it easier for our customers to select what they want and for our team members to assist our customers, instead of choosing between voluminous market-wide offerings, saving time and effort.

Driving emerging opportunities to build scale in TELUS Health and TELUS International

- We continue to build scale in TELUS Health through expanded services for existing customers, business acquisitions and strategic partnerships to facilitate demonstrated speed-to-market, and as our complementary ecosystems result in efficiencies and synergies in an exciting growth market.
- Leveraging Xavient Digital, TELUS International continues to enhance its next-generation digital solutions including artificial intelligence, robotic process automation, big data and analytics in order to meet the digital transformation needs of fast-growing tech, fintech and financial services, games, travel and hospitality, telecom and healthcare industries.
- Opening a sixth site in Manila, Philippines, expanding customer care locations in Noida, India, as well as Guatemala City, Guatemala and opening a new delivery centre in Chengdu, China, TELUS International continues to expand its global customer experience and digital IT operations to meet the geographical, digital and language support demands of its growing global customer base.

4. Capabilities

The forward-looking statements in this section, including statements regarding our dividend growth program and our financial objectives in Section 4.3, are qualified by the Caution regarding forward-looking statements at the beginning of this MD&A.

4.1 Principal markets addressed and competition

For a discussion of our principal markets and an overview of competition, refer to Section 4.1 of our 2018 annual MD&A.

4.2 Operational resources

Wireless

Our mobile phone churn rate (combined postpaid and prepaid) was 1.09% in the third quarter of 2019, despite strong competitive and economic pressures. This speaks to the success of our differentiated customers first culture and our ongoing focus on delivering an outstanding customer experience, combined with attractive new products and services, our retention programs and leading network quality. For a definition of churn, see Section 11.2 of this MD&A.

During the first nine months of 2019, we were the successful auction participant on 12 spectrum licences in Innovation, Science and Economic Development Canada’s 600 MHz auction. As well, we obtained AWS-1 and AWS-3 spectrum licences in Northern Ontario. Additionally, we obtained the use of AWS-4 spectrum licences from the original licensee.

Since mid-2013, we have invested more than $4.9 billion to acquire wireless spectrum licences in spectrum auctions and other transactions. This has more than doubled our national spectrum holdings in support of our top corporate priority to put customers first. Wireless data consumption has been increasing rapidly and we have responded by investing to extend the capacity of our leading network quality to support the additional data consumption and growth in our wireless subscriber base in a geographically diverse country. This includes investments in wireless small cells connected to our fibre technology to improve coverage and capacity and to prepare for a more efficient and timely evolution to 5G wireless services.

As at September 30, 2019, our 4G LTE technology covered 99% of Canada’s population, consistent with September 30, 2018. Furthermore, we have continued to invest in the roll-out of our LTE advanced technology, which covered approximately 93% of Canada’s population at September 30, 2019, up from approximately 92% one year before.

Wireline

We are continuing to invest in our incumbent local exchange carrier (ILEC) urban and rural communities with commitments to deliver broadband technology capabilities to as many Canadians as possible. We are expanding our fibre footprint by connecting more homes and businesses directly to fibre in communities across B.C., Alberta and Eastern Quebec. In addition, we have increased broadband Internet speeds, expanded our IP TV video-on-demand library and high-definition content, including 4K TV and 4K HDR capabilities, and enhanced the marketing of data products and bundles resulting in improved churn rates. Our fibre technology is also an essential component of our wireless access technology and will enable 5G deployment in the future as referenced above. Our home and business smart technology lines of business integrate security and safety monitoring with smart devices.
As at September 30, 2019, our high-speed broadband footprint covered approximately 3.2 million households and businesses in B.C., Alberta and Eastern Quebec, including approximately 2.14 million households and businesses covered with fibre-optic cable (representing approximately 67% of our total high-speed broadband footprint), which provides these premises with immediate access to our fibre-optic technology. This is up from approximately 1.74 million households and businesses in the third quarter of 2018.

4.3 Liquidity and capital resources

Capital structure financial policies
Our objective when managing capital is to maintain a flexible capital structure that optimizes the cost and availability of capital at acceptable risk.

In the management of capital and in its definition, we include Common Share equity (excluding Accumulated other comprehensive income), Long-term debt (including long-term credit facilities, commercial paper backstopped by long-term credit facilities and any hedging assets or liabilities associated with Long-term debt items, net of amounts recognized in Accumulated other comprehensive income), Cash and temporary investments, and short-term borrowings arising from securitized trade receivables.

We manage our capital structure and make adjustments to it in light of changes in economic conditions and the risk characteristics of our business. In order to maintain or adjust our capital structure, we may adjust the amount of dividends paid to holders of Common Shares, purchase Common Shares for cancellation pursuant to normal course issuer bid (NCIB) programs, issue new shares, issue new debt, issue new debt to replace existing debt with different characteristics, and/or increase or decrease the amount of trade receivables sold to an arm's-length securitization trust.

We monitor capital utilizing a number of measures, including our net debt to EBITDA – excluding restructuring and other costs ratio, coverage ratios and dividend payout ratios. (See definitions in Section 11.1 Non-GAAP and other financial measures.)

Financing and capital structure management plans

Report on financing and capital structure management plans

Pay dividends to the holders of Common Shares under our multi-year dividend growth program
- In May 2019, we announced our intention to target ongoing semi-annual dividend increases, with the annual increase in the range of 7 to 10% from 2020 through to the end of 2022, thereby extending the policy first announced in May 2011. Notwithstanding this target, dividend decisions will continue to be subject to our Board’s assessment and the determination of our financial position and outlook on a quarterly basis. (See Section 7.5 Liquidity and capital resource measures.) There can be no assurance that we will maintain a dividend growth program or that it will be unchanged through 2022. (See Caution regarding forward-looking statements – Ability to sustain our dividend growth program through 2022 and Section 10.7 Financing, debt requirements and returning cash to shareholders in our 2018 annual MD&A.)
- On November 6, 2019, the Board declared a fourth quarter dividend of $0.5825 per share, payable on January 2, 2020, to shareholders of record at the close of business on December 11, 2019. The fourth quarter dividend for 2019 reflects a cumulative increase of $0.0375 per share or 6.9% from the $0.5450 per share dividend declared one year earlier.
- During the three-month and nine-month periods ending September 30, 2019, our dividend reinvestment and share purchase (DRISP) plan trustee purchased shares from Treasury for the DRISP plan, instead of acquiring Common Shares in the stock market, for $23 million and $68 million, respectively, with no discount applicable. Effective with the dividends paid on October 1, 2019, we offered Common Shares from Treasury at a discount of 2%. For the dividends paid on October 1, 2019, the DRISP participation rate, calculated as the DRISP investment of $114 million (including the employee share purchase plan) as a percentage of gross dividends, was approximately 34%.

Purchase Common Shares
- During the three-month and nine-month periods ended September 30, 2019, and up to the date of this MD&A, we did not purchase or cancel any shares pursuant to our NCIB.

Use proceeds from securitized trade receivables (Short-term borrowings), bank facilities and commercial paper as needed, to supplement free cash flow and meet other cash requirements
- Our issued and outstanding commercial paper was $760 million at September 30, 2019, all of which was denominated in U.S. dollars (US$754 million), compared to $774 million (US$569 million) at December 31, 2018, and $769 million (US$594 million) at September 30, 2018.
- Our net draws on the TELUS International (Cda) Inc. credit facility were US$305 million at September 30, 2019, compared to US$313 million at December 31, 2018, and US$325 million at September 30, 2018. The credit facility is non-recourse to TELUS Corporation.
- Proceeds from securitized trade receivables were $100 million at September 30, 2019 (unchanged from December 31, 2018 and September 30, 2018).
Report on financing and capital structure management plans

Maintain compliance with financial objectives

- Maintain investment grade credit ratings in the range of BBB+ or the equivalent – On November 7, 2019, investment grade credit ratings from the four rating agencies that cover TELUS were in the desired range. (See Section 7.8 Credit ratings.)
- Net debt to EBITDA – excluding restructuring and other costs ratio of 2.00 to 2.50 times – As measured at September 30, 2019, this ratio was 3.05 times, outside of the objective range, primarily due to the acquisition of spectrum licences, the application of IFRS 16 effective January 1, 2019 (including that the transition method for IFRS 16 has currently only included nine months’ effect on the trailing EBITDA), and business acquisitions. Given the cash demands of the recent 2019 and upcoming spectrum auctions, the assessment of the guideline and return to the objective range remains to be determined; however, it is our intent to return to a ratio below 2.50 times in the medium term (following upcoming spectrum auctions), consistent with our long-term strategy. (See Section 7.5 Liquidity and capital resource measures.)
- Dividend payout ratio of 65 to 75% of net earnings per share for 2019 on a prospective basis – Our objective range is on a prospective basis through 2019. The dividend payout ratio we present in this MD&A is a historical measure utilizing the last four quarters of dividends declared and earnings per share, and is disclosed for illustrative purposes in evaluating our target guideline. As at September 30, 2019, the historical ratio of 77% and the adjusted historical ratio of 84% exceeded the objective range. So as to be consistent with the way we manage our business, we have revised our target guideline, effective January 1, 2020, to be calculated as 60 to 75% of free cash flow on a prospective basis. (See Section 7.5 Liquidity and capital resource measures.)
- Generally maintain a minimum of $1 billion in unutilized liquidity – As at September 30, 2019, our unutilized liquidity on a consolidated basis was approximately $2.1 billion. (See Section 7.6 Credit facilities.)

4.4 Changes in internal control over financial reporting

Disclosure controls and procedures
There were no changes in internal control over financial reporting that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

5. Discussion of operations

This section contains forward-looking statements, including those with respect to mobile phone average billing per subscriber per month (ABPU) and mobile phone average revenue per subscriber per month (ARPU) growth, wireless trends regarding loading and retention spending, equipment margins, Internet subscriber growth and various future trends. There can be no assurance that we have accurately identified these trends based on past results or that these trends will continue. See Caution regarding forward-looking statements at the beginning of this MD&A.

5.1 General

A significant judgment we make is in respect of distinguishing between our wireless and wireline operations and cash flows (and this extends to allocations of both direct and indirect expenses and capital expenditures). The clarity of such distinction has been increasingly affected by the convergence and integration of our wireless and wireline telecommunications infrastructure and technology. The continued build-out of our technology-agnostic fibre-optic infrastructure, in combination with converged edge network technology, has significantly affected this judgment, as has the commercialization of fixed-wireless telecommunications solutions for customers and the consolidation of our non-customer facing operations. As a result, it has become increasingly difficult and impractical to objectively and clearly distinguish between our wireless and wireline operations and cash flows, and the assets from which those cash flows arise. As we do not currently aggregate operating segments, our reportable segments as at September 30, 2019, are also wireless and wireline. Segmented information in Note 5 of the interim consolidated financial statements is regularly reported to our Chief Executive Officer (CEO) (our chief operating decision-maker).

We applied IFRS 16 with a transition date of January 1, 2019. As noted in Section 1.1, upon the application of IFRS 16, we did not retrospectively adjust amounts reported for periods prior to fiscal 2019. Refer to Note 2 of the interim consolidated financial statements for further information.
5.2 Summary of consolidated quarterly results and trends

### Summary of quarterly results

<table>
<thead>
<tr>
<th>($ millions, except per share amounts)</th>
<th>2019 Q3</th>
<th>2019 Q2</th>
<th>2019 Q1</th>
<th>2018 Q4</th>
<th>2018 Q3</th>
<th>2018 Q2</th>
<th>2018 Q1</th>
<th>2017 Q4</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Operating revenues</strong></td>
<td>3,697</td>
<td>3,597</td>
<td>3,506</td>
<td>3,764</td>
<td>3,774</td>
<td>3,453</td>
<td>3,377</td>
<td>3,541</td>
</tr>
<tr>
<td><strong>Operating expenses</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Goods and services purchased</td>
<td>1,502</td>
<td>1,466</td>
<td>1,421</td>
<td>1,784</td>
<td>1,685</td>
<td>1,491</td>
<td>1,408</td>
<td>1,635</td>
</tr>
<tr>
<td>Employee benefits expense</td>
<td>761</td>
<td>758</td>
<td>706</td>
<td>745</td>
<td>740</td>
<td>711</td>
<td>700</td>
<td>683</td>
</tr>
<tr>
<td>Depreciation and amortization</td>
<td>649</td>
<td>633</td>
<td>617</td>
<td>586</td>
<td>572</td>
<td>559</td>
<td>550</td>
<td>564</td>
</tr>
<tr>
<td><strong>Total operating expenses</strong></td>
<td>2,912</td>
<td>2,857</td>
<td>2,744</td>
<td>3,115</td>
<td>2,997</td>
<td>2,761</td>
<td>2,658</td>
<td>2,882</td>
</tr>
<tr>
<td><strong>Operating income</strong></td>
<td>785</td>
<td>740</td>
<td>762</td>
<td>649</td>
<td>777</td>
<td>692</td>
<td>719</td>
<td>659</td>
</tr>
<tr>
<td>Financing costs before long-term debt</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>prepayment premium</td>
<td>173</td>
<td>189</td>
<td>168</td>
<td>159</td>
<td>162</td>
<td>150</td>
<td>156</td>
<td>144</td>
</tr>
<tr>
<td>Long-term debt prepayment premium</td>
<td>28</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>34</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td><strong>Income before income taxes</strong></td>
<td>584</td>
<td>551</td>
<td>594</td>
<td>490</td>
<td>581</td>
<td>542</td>
<td>563</td>
<td>515</td>
</tr>
<tr>
<td>Income taxes</td>
<td>144</td>
<td>31</td>
<td>157</td>
<td>122</td>
<td>134</td>
<td>145</td>
<td>151</td>
<td>161</td>
</tr>
<tr>
<td><strong>Net income</strong></td>
<td>440</td>
<td>520</td>
<td>437</td>
<td>368</td>
<td>447</td>
<td>397</td>
<td>412</td>
<td>354</td>
</tr>
<tr>
<td><strong>Net income attributable to</strong></td>
<td>433</td>
<td>517</td>
<td>428</td>
<td>357</td>
<td>443</td>
<td>390</td>
<td>410</td>
<td>353</td>
</tr>
</tbody>
</table>

**Net Income per Common Share:**
- Basic earnings per share (EPS) 0.72
- Adjusted basic EPS4 0.76
- Diluted EPS 0.72

**Dividends declared per Common Share:**
- 0.5625

**Additional information:**
- EBITDA4 1,434
- Restructuring and other costs3,4 29
- MTS net recovery2 — —
- Cash provided by operating activities 1,148
- Free cash flow4 320

1. In the third quarter of 2018, we recorded equity income related to real estate joint ventures of $171 million arising from the sale of TELUS Garden.
2. Goods and services purchased and Employee benefits expense amounts include restructuring and other costs.
3. In the third quarter of 2018, we recorded a donation to the TELUS Friendly Future Foundation of $118 million as part of other costs.
4. See Section 11.1 Non-GAAP and other financial measures.
5. Refer to our 2018 annual MD&A for definition.

### Trends

The trend of year-over-year increases in consolidated revenue reflects: (i) wireless network revenue generated from growth in our subscriber base; (ii) growth in wireline service revenue, including customer care and business services (CCBS) revenues, Internet and third wave data services revenues, health revenues, TV revenues, and home and business smart technology (including security) revenues; and (iii) general increase in equipment revenues. Increased wireline data service revenue also includes revenues from business acquisitions. Increased Internet and TV service revenues are being generated by subscriber growth and higher Internet revenue per customer. For additional information on wireless and wireline revenue and subscriber trends, see Section 5.4 Wireless segment and Section 5.5 Wireline segment.

The trend of year-over-year increases in Goods and services purchased, excepting the effects of the application of IFRS 16 first evidenced in the first quarter of 2019, reflects higher wireless equipment expenses associated with higher-value smartphones in the sales mix and a general increase in new contracts; increases in external labour expenses to support growth in both our subscriber base and business acquisitions; and increased wireline TV costs of sales associated with a growing subscriber base.
In the third quarter of 2018, Operating revenues include equity income related to real estate joint ventures of $171 million arising from the sale of TELUS Garden. Additionally in the third quarter of 2018, Goods and services purchased include a non-recurring $118 million charitable donation to the TELUS Friendly Future Foundation.

The trend of year-over-year increases in net Employee benefits expense reflects increases in the number of employees resulting from business acquisitions, including those supporting CCBS revenue growth, expansion of our health offerings and growth in our other complementary businesses. This was partly offset by moderating salaries expense resulting from reductions in the number of full-time equivalent (FTE) domestic employees, excluding business acquisitions, related to cost efficiency and effectiveness programs. In the fourth quarter of 2016, there was an immediately vesting transformative compensation expense, which was a one-time payment in lieu of wage increases for the period July 1, 2016 to December 31, 2018; we will experience year-over-year increases in net Employee benefits expense in 2019 related to 2019 compensation increases.

The trend of year-over-year increases in Depreciation and amortization reflects increases due to growth in capital assets, which is supporting the expansion of our broadband footprint, including our generational investment to connect homes and businesses to TELUS PureFibre and enhanced LTE technology coverage, and growth in business acquisitions. The investments in our fibre-optic technology also support our small-cell technology strategy to improve coverage and capacity while preparing for a more efficient and timely evolution to 5G. Depreciation and amortization under the application of IFRS 16 are higher than would have been the case prior to IFRS 16.

The trend of year-over-year increases in Financing costs reflects an increase in long-term debt outstanding, mainly associated with our investments in fibre and wireless technology, and our business acquisitions. Financing costs include a long-term debt prepayment premium of $28 million in the third quarter of 2019 and $34 million in the third quarter of 2018. Moreover, Financing costs are net of capitalized interest related to spectrum licences acquired during the 600 MHz wireless spectrum auction, which we expect to deploy into our existing network in future periods. Financing costs also include Interest accretion on provisions (asset retirement obligations and written put options) and Employee defined benefit plans net of interest expense. Additionally, for the eight periods shown, Financing costs include varying amounts of foreign exchange gains or losses and varying amounts of interest income. Under the application of IFRS 16, commencing in 2019, Financing costs are higher than would have been the case prior to IFRS 16, driven by interest on lease liabilities.

The trend in Net income reflects the items noted above, as well as non-cash adjustments arising from substantively enacted income tax changes and adjustments recognized in the current periods for income taxes of prior periods. Historically, the trend in basic EPS has been impacted by the same trends as Net income and can also be impacted by share purchases under our normal course issuer bid (NCIB) programs. While a 12-month program is currently in place, there have been no purchases under the program, which commenced in January 2019.

The general trend of year-over-year decreases in Cash provided by operating activities reflects higher year-over-year income taxes paid, including a higher final income tax payment of $270 million, in the first quarter of 2019, for the 2018 income tax year, and higher interest payments arising from increases in debt outstanding and year-over-year variances in fixed-term interest rates. Cash provided by operating activities was impacted by IFRS 16, which prospectively results in the principal component of lease payments being reflected as a financing activity. The general trend of year-over-year increases in free cash flow reflects the above factors affecting Cash provided by operating activities, except that the implementation of IFRS 16 (and the implementation of IFRS 15 on January 1, 2018) does not affect the free cash flow amount determined. For further discussion on these trends, see Section 5.4 Wireless segment and Section 5.5 Wireline segment.

5.3 Consolidated operations

The following is a discussion of our consolidated financial performance. Segment information in Note 5 of the interim consolidated financial statements is regularly reported to our CEO. We discuss the performance of our segments in Section 5.4 Wireless segment and Section 5.5 Wireline segment.
Consolidated operating revenues decreased by $77 million in the third quarter of 2019 and increased by $196 million in the first nine months of 2019. Excluding the effect of the non-recurring third quarter 2018 equity income related to real estate joint ventures arising from the sale of TELUS Garden of $171 million, consolidated operating revenues increased by $94 million in the third quarter of 2019 and $367 million in the first nine months of 2019.

- **Service revenues** increased by $109 million in the third quarter of 2019 and $376 million in the first nine months of 2019, reflecting growth in wireless network revenue and wireline data services, partly offset by the continuing declines in wireline legacy voice and legacy data service revenues. Wireless network revenue increases reflect a growing wireless subscriber base. The increase in wireline data service revenue reflects increased CCBS revenue growth, as well as increases in Internet and third wave data services from subscriber growth and higher Internet revenue per customer, health revenues, TV revenue from subscriber growth and revenues from our home and business smart technology (including security) lines of business, partly offset by decreased legacy data service revenues.

- **Equipment revenues** decreased by $13 million in the third quarter, reflecting lower wireless volumes and lower wireline data and voice equipment sales. In the first nine months of 2019, equipment revenues increased by $5 million, primarily due to increased wireless revenue mainly from greater volumes of higher-value smartphones in the sales mix.

- **Other operating income** decreased by $173 million in the third quarter of 2019 and $185 million in the first nine months of 2019, primarily due to non-recurrence of equity income related to real estate joint ventures arising from the sale of TELUS Garden of $171 million in the third quarter of 2018.

### Operating revenues

<table>
<thead>
<tr>
<th>($ in millions)</th>
<th>Third quarters ended September 30</th>
<th>Nine-month periods ended September 30</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2019</td>
<td>2018</td>
</tr>
<tr>
<td>Service</td>
<td>3,138</td>
<td>3,029</td>
</tr>
<tr>
<td>Equipment</td>
<td>549</td>
<td>562</td>
</tr>
<tr>
<td>Revenues arising from contracts with customers</td>
<td>3,687</td>
<td>3,591</td>
</tr>
<tr>
<td>Other operating income¹</td>
<td>10</td>
<td>183</td>
</tr>
<tr>
<td><strong>Operating revenues¹</strong></td>
<td><strong>3,697</strong></td>
<td><strong>3,774</strong></td>
</tr>
</tbody>
</table>

¹ Includes equity income related to real estate joint ventures of $171 million arising from the sale of TELUS Garden recorded in the third quarter of 2018. Excluding the effect of this third quarter 2018 equity income, operating revenues increased by 2.6% in the third quarter of 2019 and 3.5% in the first nine months of 2019.

Consolidated operating expenses decreased by $85 million in the third quarter of 2019 and increased by $97 million in the first nine months of 2019. Excluding the effect of the non-recurring third quarter 2018 donation to the TELUS Friendly Future Foundation of $118 million, consolidated operating expenses increased by $33 million in the third quarter of 2019 and $215 million in the first nine months of 2019.

- **Goods and services purchased** decreased by $183 million in the third quarter of 2019 and $195 million in the first nine months of 2019, primarily caused by the non-recurrence of a $118 million donation to the TELUS Friendly Future Foundation in the third quarter of 2018. Excluding the effect of the donation, Goods and services purchased decreased by $65 million in the third quarter of 2019 and $77 million in the first nine months of 2019, driven by the application of IFRS 16 in both periods. In the first nine months of 2019, the decrease in Goods and services purchased was partially offset by higher wireline product costs associated with health services, higher external labour costs to support a growing subscriber base, higher administrative and other costs supporting CCBS revenue growth and related to business acquisitions, increased non-labour-related restructuring and other costs related to efficiency initiatives, higher TV content costs and higher equipment sales expenses mainly from higher-value
smartphones in the sales mix. Under the new IFRS 16 accounting standard, depreciation of right-of-use lease assets and financing costs arising from lease liabilities are not part of Goods and services purchased and we did not retrospectively adjust amounts reported for periods prior to fiscal 2019. As a result, the impact of IFRS 16 on Goods and services purchased is a decrease of $64 million in the third quarter of 2019 and $213 million in the first nine months of 2019.

- **Employee benefits expense** increased by $21 million in the third quarter of 2019 and $74 million in the first nine months of 2019, primarily due to higher compensation and benefit costs resulting from an increase in the number of employees supporting CCBS revenue growth, business acquisitions, and a net increase in domestic internal labour costs arising from compensation increases partially offset by a decrease in the number of domestic FTEs excluding business acquisitions. This Employee benefits expense increase was partly offset by lower share-based compensation, higher capitalized labour costs and lower labour-related restructuring and other costs.

- **Depreciation** increased by $70 million in the third quarter of 2019 and $188 million in the first nine months of 2019, primarily due to the application of IFRS 16. Under the new accounting standard, depreciation of right-of-use lease assets is recognized, largely related to our real estate leases (including cell site leases and retail store leases), and we did not retrospectively adjust amounts reported for periods prior to fiscal 2019. As a result, the impact of IFRS 16 on Depreciation was an increase of $42 million in the third quarter of 2019 and $136 million in the first nine months of 2019. Total Depreciation also increased due to growth in capital assets over the last 12 months, including our expanded fibre footprint and business acquisitions.

- **Amortization of intangible assets** increased by $7 million in the third quarter of 2019 and $30 million in the first nine months of 2019, reflecting higher expenditures associated with the intangible asset base over the last 12 months, including those arising from business acquisitions.

### Operating income

<table>
<thead>
<tr>
<th>($ in millions)</th>
<th>Third quarters ended September 30</th>
<th>Nine-month periods ended September 30</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2019</td>
<td>2018</td>
</tr>
<tr>
<td>Wireless EBITDA¹ (See Section 5.4)</td>
<td>970</td>
<td>921</td>
</tr>
<tr>
<td>Wireline EBITDA² (See Section 5.5)</td>
<td>464</td>
<td>428</td>
</tr>
<tr>
<td>EBITDA³</td>
<td>1,434</td>
<td>1,349</td>
</tr>
<tr>
<td>Depreciation and amortization (discussed above)</td>
<td>(649)</td>
<td>(572)</td>
</tr>
<tr>
<td>Operating income³</td>
<td>785</td>
<td>777</td>
</tr>
</tbody>
</table>

1. Includes equity income related to real estate joint ventures allocated to the wireless segment of $85 million (50% of the total of $171 million) arising from the sale of TELUS Garden recorded in the third quarter of 2018. Also includes a donation to the TELUS Friendly Future Foundation allocated to the wireless segment of $59 million (50% of the total of $118 million) recorded in other costs in the third quarter of 2018. Excluding the effects of this third quarter 2018 equity income and donation, wireless EBITDA increased by 8.4% in the third quarter of 2019 and 8.6% in the first nine months of 2019.

2. Includes equity income allocated to the wireline segment of $86 million (50% of the total of $171 million) described in footnote 1. Also includes a donation allocated to the wireline segment of $59 million (50% of the total of $118 million) described in footnote 1. Excluding the effects of this third quarter 2018 equity income and donation, wireline EBITDA increased by 15.7% in the third quarter of 2019 and 11.9% in the first nine months of 2019.

3. Includes equity income related to real estate joint ventures of $171 million described in footnote 1. Also includes a donation of $118 million described in footnote 1. Excluding the effects of this third quarter 2018 equity income and donation, consolidated EBITDA increased by 10.6% in the third quarter of 2019 and 9.7% in the first nine months of 2019, and Operating income increased by 8.4% in the third quarter of 2019 and 7.1% in the first nine months of 2019.

Operating income increased by $8 million in the third quarter of 2019 and $99 million in the first nine months of 2019, while EBITDA increased by $85 million in the third quarter of 2019 and $317 million in the first nine months of 2019. Excluding the effects of non-recurring third quarter 2018 equity income related to real estate joint ventures arising from the sale of TELUS Garden of $171 million and the third quarter 2018 donation to the TELUS Friendly Future Foundation of $118 million, Operating income increased by $61 million in the third quarter of 2019 and $152 million in the first nine months of 2019, while EBITDA increased by $138 million in the third quarter of 2019 and $370 million in the first nine months of 2019. These increases reflect higher wireless network revenue growth driven by a growing subscriber base and higher wireless equipment margins, in addition to growth in wireline data service margins and a higher EBITDA contribution from our CCBS and health businesses, and the effects of implementing IFRS 16. These factors were partly offset by declines from CCBS and legacy voice and legacy data services.
Adjusted EBITDA increased by $112 million or 8.3% in the third quarter of 2019 and $340 million or 8.6% in the first nine months of 2019. The increases reflect higher wireless network revenue driven by a growing subscriber base, growth in wireline data service margins, a higher EBITDA contribution from our CCBS and health businesses, and the effects of implementing IFRS 16. These factors were partly offset by declines in wireline legacy voice and legacy data services and a decline in the EBITDA contribution from our legacy business services.

For purposes of our CEO’s (our chief operating decision-maker) assessment of performance during the 2019 fiscal year relative to the fiscal 2018 year, we have simulated IFRS 16 adjustments to the fiscal 2018 results in calculating pro forma results. This IFRS 16 simulation to fiscal 2018 results, which are cash-based proxy adjustments and used by our CEO to assess performance, resulted in pro forma consolidated Adjusted EBITDA growth of approximately 4.1% in the third quarter of 2019 and approximately 4.3% in the first nine months of 2019.

### Financing costs

<table>
<thead>
<tr>
<th>($ in millions)</th>
<th>Third quarters ended September 30</th>
<th>Nine-month periods ended September 30</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2019</td>
<td>2018</td>
</tr>
<tr>
<td>Gross interest on long-term debt, excluding lease liabilities</td>
<td>160</td>
<td>152</td>
</tr>
<tr>
<td>Capitalized long-term debt interest</td>
<td>(9)</td>
<td>—</td>
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<tr>
<td>Interest on lease liabilities</td>
<td>18</td>
<td>—</td>
</tr>
<tr>
<td>Interest on short-term borrowings and other</td>
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<td>4</td>
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<tr>
<td>Interest accretion on provisions</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Long-term debt prepayment premium</td>
<td>28</td>
<td>34</td>
</tr>
<tr>
<td>Interest expense</td>
<td>204</td>
<td>196</td>
</tr>
<tr>
<td>Employee defined benefit plans net interest</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>Foreign exchange (gains) losses</td>
<td>(3)</td>
<td>(2)</td>
</tr>
<tr>
<td>Interest income</td>
<td>(1)</td>
<td>(2)</td>
</tr>
</tbody>
</table>

Financing costs increased by $5 million in the third quarter of 2019 and $56 million in the first nine months of 2019, mainly due to the following factors:

- **Interest expense** increased by $8 million in the third quarter of 2019 and $60 million in the first nine months of 2019, resulting from:
  - Gross interest on long-term debt, excluding lease liabilities, increased by $8 million in the third quarter of 2019 and $24 million in the first nine months of 2019, driven by an increase in average long-term debt balances outstanding in part attributed to the acquisition of spectrum licences, partially offset by a decrease in the effective interest rate. Our weighted average interest rate on long-term debt (excluding commercial paper, the revolving component of the TELUS International (Cda) Inc. credit facility, lease liabilities and other long-term debt) was 3.98% at September 30, 2019, as compared to 4.18% one year earlier. (See Long-term debt issues and repayments in Section 7.4.)
  - Capitalized long-term debt interest is in respect of debt incurred for the purchase of spectrum licences during the 600 MHz wireless spectrum auction held by Innovation, Science and Economic Development Canada (ISED), which we expect to deploy in our existing network in future periods. Capitalization of long-term debt interest will continue until substantially all of the activities necessary to prepare the spectrum for its intended use are complete.
  - Interest on lease liabilities of $18 million in the third quarter of 2019 and $50 million in the first nine months of 2019 represents the financing costs increase arising from lease liabilities upon the application of IFRS 16 as we did not retrospectively adjust amounts reported for periods prior to fiscal 2019. This interest on lease liabilities was largely related to our real estate leases (including cell site leases and retail store leases), whereas prior to the application of IFRS 16, these costs would have been accounted for in Goods and services purchased.
  - Interest on short-term borrowings and other decreased by $3 million in the third quarter of 2019. Interest on short-term borrowings and other increased by $4 million in the first nine months of 2019, due to the draw-down of amounts advanced to us from an arm’s-length securitization trust during the first quarter of 2019, which was then reduced in the second quarter of 2019. (See Long-term debt issues and repayments in Section 7.4.)
• Interest accretion on provisions was relatively flat in both the third quarter of 2019 and the first nine months of 2019.

• In the third quarter of 2019, we recorded a **long-term debt prepayment premium** of $28 million related to the early redemption of all our $1.0 billion of senior unsecured 5.05% Notes, Series CH due July 23, 2020. In the third quarter of 2018, we recorded a long-term debt prepayment premium of $34 million before income taxes related to the early redemption of all our $1.0 billion of senior unsecured 5.05% Notes, Series CG.

• **Employee defined benefit plans net interest** decreased by $3 million in the third quarter of 2019 and $10 million in the first nine months of 2019, primarily due to the change in the defined benefit plan surplus as at December 31, 2018, to $57 million (net of plan asset ceiling limit of $263 million), compared to a defined benefit plan deficit of $334 million (net of plan asset ceiling limit of $110 million) one year earlier, partly offset by an increase in the discount rate.

• **Foreign exchange (gains) losses** have fluctuated as a result of movement of the Canadian dollar relative to the U.S. dollar.

• **Interest income** was relatively flat in both the third quarter of 2019 and the first nine months of 2019.

### Income taxes

<table>
<thead>
<tr>
<th>($ in millions, except tax rates)</th>
<th>Third quarters ended September 30</th>
<th>Nine-month periods ended September 30</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2019</td>
<td>2018</td>
</tr>
<tr>
<td>Income tax computed at applicable statutory rates</td>
<td>157</td>
<td>157</td>
</tr>
<tr>
<td>Revaluation of deferred income tax liability to reflect future income tax rates</td>
<td>(2)</td>
<td>—</td>
</tr>
<tr>
<td>Adjustments recognized in the current period for income taxes of prior periods</td>
<td>(14)</td>
<td>(4)</td>
</tr>
<tr>
<td>Other</td>
<td>3</td>
<td>(19)</td>
</tr>
<tr>
<td><strong>Income taxes</strong></td>
<td>144</td>
<td>134</td>
</tr>
<tr>
<td>Income taxes computed at applicable statutory rates (%)</td>
<td>26.9</td>
<td>27.0</td>
</tr>
<tr>
<td>Revaluation of deferred income tax liability to reflect future income tax rates (%)</td>
<td>(0.3)</td>
<td>—</td>
</tr>
<tr>
<td>Adjustments recognized in the current period for income taxes of prior periods (%)</td>
<td>(2.4)</td>
<td>(0.7)</td>
</tr>
<tr>
<td>Other (%)</td>
<td>0.5</td>
<td>(3.2)</td>
</tr>
<tr>
<td><strong>Effective tax rate (%)</strong></td>
<td>24.7</td>
<td>23.1</td>
</tr>
</tbody>
</table>

Total income tax expense increased by $10 million in the third quarter of 2019 and decreased by $98 million in the first nine months of 2019. The effective tax rate increased from 23.1% to 24.7% in the third quarter of 2019 largely resulting from the lower capital gain rate on the TELUS Garden sale in the third quarter of 2018. The effective tax rate decreased from 25.5% to 19.2% in the first nine months of 2019, predominantly attributed to the revaluation of the deferred income tax liability for the multi-year reduction in the Alberta provincial corporate tax rate that was substantively enacted in the second quarter of 2019.

### Comprehensive income

<table>
<thead>
<tr>
<th>($ in millions)</th>
<th>Third quarters ended September 30</th>
<th>Nine-month periods ended September 30</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2019</td>
<td>2018</td>
</tr>
<tr>
<td>Net income</td>
<td>440</td>
<td>447</td>
</tr>
<tr>
<td>Other comprehensive income (net of income taxes):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Items that may be subsequently reclassified to income</td>
<td>115</td>
<td>9</td>
</tr>
<tr>
<td>Items never subsequently reclassified to income</td>
<td>2</td>
<td>(10)</td>
</tr>
<tr>
<td><strong>Comprehensive income</strong></td>
<td>557</td>
<td>446</td>
</tr>
</tbody>
</table>

Comprehensive income increased by $111 million in the third quarter of 2019, primarily from changes in unrealized fair value of derivatives designated as cash flow hedges. Comprehensive income increased by $257 million in the first nine months of 2019, primarily from increases in Net income as well as changes in unrealized fair value of derivatives designated as cash flow hedges. Items that may subsequently be reclassified to income are composed of changes in the unrealized fair value of derivatives designated as cash flow hedges and foreign currency translation adjustments arising from translating financial statements of foreign operations. Items never subsequently reclassified to income are composed of employee defined benefit plans re-measurement amounts.
5.4 Wireless segment

Wireless trends and seasonality
The historical trend over the last eight quarters in wireless network revenue reflects growth in our subscriber base, as well as higher-value smartphones in the sales mix of gross additions and retention units. There has been a general year-over-year increase in equipment revenues from higher-value smartphones in the sales mix and a higher volume of new contracts, however, this trend is moderating with heightened competitor aggression. The general trend of year-over-year increases in mobile phone subscriber net additions resulted from: the success of our promotions; the effects of market growth arising from a growing population, changing population demographics and an increasing number of customers with multiple devices; and continuous improvements in the speed and quality of our network, combined with our low churn rate, which reflect our focus on customers first initiatives. Our expenditures on network improvements increase capacity and coverage, allowing us to grow revenue through net additions of wireless subscribers. Although there have historically been significant third and fourth quarter seasonal effects that result in increased loading, competitive intensity in both the consumer and business markets, launches of new devices, rate plans, device financing programs, and the strategic decision to focus on margin-accrative loading as contrasted to low or negative-margin tablet loading and non-accrative prepaid-to-postpaid migrations, may impact subscriber addition results and trends for future periods.

Mobile phone ABPU growth has been moderating, primarily due to: (i) carriers offering larger allotments of data and rate plans, which includes plans with bonus data and unlimited data plans, data sharing and international roaming features, and (ii) consumer behavioural response to more frequent customer data usage notifications and offloading of data traffic to increasingly available Wi-Fi hotspots; partly offset by (iii) an increased mix of higher-priced rate plans, in addition to more higher-value smartphones in the sales mix, including impacts from customers financing more of the cost of these devices on our TELUS Easy Payment program and an increased proportion of higher-rate customers in the subscriber mix. As a result of changing industry dynamics, customers have been able to gain access to higher network speeds and larger allotments of data included for a given price point, further limiting mobile phone ABPU expansion. The economic environment, consumer behaviour, the regulatory environment, device selection and other factors also impact mobile phone ABPU, and as a consequence, there can be no assurance that mobile phone ABPU will return to growth in the coming quarters.

The trend of our comparatively low mobile phone blended churn rate reflects our customers first efforts, retention programs and focus on building, maintaining and enhancing our high-quality network. We may experience pressure on our mobile phone blended churn rate if the level of competitive intensity increases (in part due to increased promotional activity), if there is an increase in customers on expired or no contracts (compared to current experience), or due to regulatory changes. Accordingly, our wireless segment historical operating results and trends may not be reflective of results and trends for future periods.

Our connected device subscriber base has been increasing through a combination of our expanded Internet of Things (IoT) offerings and our strategic decision to load less low or negative-margin tablets. IoT technologies are expected to continue their growth and IoT customers, along with other connected device subscribers, will be able to realize greater benefits that are dependent upon 5G deployment.

The trends in wireless EBITDA-based operating metrics have been impacted by our adoption of IFRS 16 effective January 1, 2019, as discussed further in Note 2 of the interim consolidated financial statements.
## Wireless operating indicators

<table>
<thead>
<tr>
<th>Subscribers(^1,2) (000s):</th>
<th>2019</th>
<th>2018</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mobile phones</td>
<td>8,663</td>
<td>8,405</td>
<td>3.1%</td>
</tr>
<tr>
<td>Mobile connected devices</td>
<td>1,420</td>
<td>1,152</td>
<td>23.3%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>10,083</td>
<td>9,557</td>
<td>5.5%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Coverage</th>
<th>2019</th>
<th>2018</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSPA+ population coverage(^3) (millions)</td>
<td>37.0</td>
<td>37.0</td>
<td>—%</td>
</tr>
<tr>
<td>LTE population coverage(^4) (millions)</td>
<td>36.9</td>
<td>36.9</td>
<td>—%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Third quarters ended September 30</th>
<th>2019</th>
<th>2018</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mobile phones gross additions(^5) (000s):</td>
<td>388</td>
<td>366</td>
<td>6.0%</td>
</tr>
<tr>
<td>Mobile phones ABPU, per month(^6,7) ($)</td>
<td>75.06</td>
<td>74.71</td>
<td>0.5%</td>
</tr>
<tr>
<td>Mobile phones ARPU, per month(^6,7) ($)</td>
<td>61.64</td>
<td>62.34</td>
<td>(1.1)%</td>
</tr>
<tr>
<td>Mobile phones churn, per month(^6,7) (%)</td>
<td>1.09</td>
<td>1.03</td>
<td>0.06 pts.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Nine-month periods ended September 30</th>
<th>2019</th>
<th>2018</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mobile phones gross additions(^5) (000s):</td>
<td>993</td>
<td>939</td>
<td>5.8%</td>
</tr>
<tr>
<td>Mobile phones ABPU, per month(^6,7) ($)</td>
<td>73.57</td>
<td>73.31</td>
<td>0.4%</td>
</tr>
<tr>
<td>Mobile phones ARPU, per month(^6,7) ($)</td>
<td>60.43</td>
<td>61.22</td>
<td>(1.3)%</td>
</tr>
<tr>
<td>Mobile phones churn, per month(^6,7) (%)</td>
<td>1.04</td>
<td>1.04</td>
<td>— pts.</td>
</tr>
</tbody>
</table>

1 Fourth quarter 2018 opening mobile phone subscriber connections have been adjusted to exclude an estimated 23,000 subscribers impacted by the CRTC’s final pro-rating ruling in June 2018, which was effective October 1, 2018.

2 Effective for the first quarter of 2019, with retrospective application, we revised our definition of a wireless subscriber and now report mobile phones and mobile connected devices (e.g. tablets, Internet keys, IoT, wearables, connected automobile systems) as separate subscriber bases so as to be consistent with the way we manage our business and to align with global peers. As a result of the change, total subscribers and associated operating statistics (gross additions, net additions, churn, ABPU and ARPU) were adjusted to reflect (i) the movement of certain subscribers from the mobile phones subscriber base to the newly created mobile connected devices subscriber base, and (ii) the inclusion of previously undisclosed IoT and mobile health subscribers in our mobile connected devices subscriber base. For additional information on our subscriber definitions, see Section 11.2 Operating indicators.

3 Including network access agreements with other Canadian carriers.

4 See Section 11.2 Operating indicators. These are industry measures useful in assessing operating performance of a wireless company, but are not measures defined under IFRS-IASB.

## Operating revenues – Wireless segment

<table>
<thead>
<tr>
<th>($ in millions)</th>
<th>Third quarters ended September 30</th>
<th>Nine-month periods ended September 30</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2019</td>
<td>2018</td>
</tr>
<tr>
<td>Network revenue</td>
<td>1,578</td>
<td>1,547</td>
</tr>
<tr>
<td>Equipment and other service revenues</td>
<td>504</td>
<td>512</td>
</tr>
<tr>
<td>Revenues arising from contracts with customers</td>
<td>2,082</td>
<td>2,059</td>
</tr>
<tr>
<td>Other operating income(^1)</td>
<td>4</td>
<td>90</td>
</tr>
<tr>
<td>External operating revenues(^1)</td>
<td>2,086</td>
<td>2,149</td>
</tr>
<tr>
<td>Intersegment revenues</td>
<td>13</td>
<td>12</td>
</tr>
<tr>
<td>Wireless operating revenues(^1)</td>
<td>2,099</td>
<td>2,161</td>
</tr>
</tbody>
</table>

1 Includes equity income related to real estate joint ventures allocated to the wireless segment of $85 million (50% of the total of $171 million) arising from the sale of TELUS Garden recorded in the third quarter of 2018. Excluding the effect of this third quarter equity income, wireless operating revenues increased by 1.1% in the third quarter of 2019 and 1.9% in the first nine months of 2019.

Total wireless operating revenues decreased by $62 million in the third quarter of 2019 and increased by $30 million in the first nine months of 2019. Excluding the effect of the non-recurring third quarter 2018 equity income related to real estate joint ventures arising from the sale of TELUS Garden allocated to the wireless segment of $85 million (50% of the total of $171 million), wireless operating revenues increased by $23 million in the third quarter of 2019 and $115 million in the first nine months of 2019.

**Network revenue** increased by $31 million or 2.0% in the third quarter of 2019 and $77 million or 1.7% in the first nine months of 2019, reflecting 5.5% growth in the subscriber base over the last 12 months, partly offset by declining mobile phone ARPU as discussed below. **Mobile phone ABPU** was $75.06 in the third quarter of 2019 and $73.57 in the first nine months of 2019, reflecting increases of $0.35 or 0.5% in the third quarter and $0.26 or 0.4% for the nine-month period. The increases reflect growth from the introduction of our combined TELUS Easy Payment device financing, Peace of Mind endless data plans and TELUS Family Discounts offerings, with customers selecting plans with endless data or larger data buckets and higher-value smartphones in the sales mix, which were partly offset by declines in chargeable data usage and the impact of the competitive environment putting pressure on base rate plan prices in the
current and prior periods. **Mobile phone ARPU** was $61.64 in the third quarter of 2019 and $60.43 in the first nine months of 2019, reflecting decreases of $0.70 or 1.1% for the quarter and $0.79 or 1.3% for the nine-month period, as the declines in chargeable data usage and competitive pressures on base rate plan prices more than offset the increased number of customers selecting plans with endless or larger data buckets.

- **Mobile phone gross additions** were 388,000 in the third quarter of 2019 and 993,000 for the first nine months of 2019, reflecting increases of 22,000 for the quarter and 54,000 for the nine-month period, driven by growth in high-value customer additions, growth in the Canadian population, successful promotions and expanded channels.

- **Our mobile phone churn rate** was 1.09% in the third quarter of 2019 and 1.04% in the first nine months of 2019, as compared to 1.03% in the third quarter of 2018 and 1.04% in the first nine months of 2018. The increase in our mobile phone churn rate during the third quarter of 2019 reflects heightened competitive intensity during the seasonal promotional period and TELUS not matching uneconomic market offers by instead utilizing our innovative TELUS Easy Payment device financing program, Peace of Mind endless data plans, Bring-It-Back™ and TELUS Family Discounts offerings. The increase in the mobile phone churn rate was partially mitigated by our focus on executing customers first initiatives and retention programs, as well as our leading network quality.

- **Net subscriber additions** were 193,000 in the third quarter of 2019 and 407,000 in the first nine months of 2019, compared to 171,000 and 315,000, respectively, in the comparable periods of 2018. Mobile phone net additions decreased by 10,000 in the third quarter of 2019, as higher mobile phone gross additions were offset by higher mobile phone churn, as described above. Mobile phone net additions increased by 17,000 in the first nine months of 2019, driven by higher mobile phone gross additions. We continue to focus on margin accretion growth with the focus away from lower economic loading. Mobile connected device net additions improved by 32,000 in the third quarter of 2019 and 75,000 in the first nine months of 2019, driven by growth in our IoT offerings, including the connected device growth arising from our subscribers expanding their IoT services to their growing customer bases, partly offset by less low or negative-margin tablet loading.

**Equipment and other service revenues** decreased by $8 million in the third quarter of 2019, due to lower contracted volumes, as customers adapt to the industry introduction of device financing programs which provides transparency into full device costs resulting in customers deferring device upgrade purchases. In the first nine months of 2019, equipment and other service revenues increased by $39 million, due to greater volumes of higher-value smartphones in the sales mix.

**Other operating income** decreased by $86 million in the third quarter of 2019 and $91 million in the first nine months of 2019, largely resulting from non-recurrence of equity income related to real estate joint ventures arising from the sale of TELUS Garden in the third quarter of 2018, of which 50% of the total $171 million was allocated to each of the wireless and wireline segments. Excluding the effect of this equity income, Other operating income was relatively flat in the third quarter of 2019 and decreased by $6 million in the first nine months of 2019 driven by lower net gains from the sale of property, plant and equipment.

**Intersegment revenues** represent network services eliminated upon consolidation along with the associated wireline expenses.

### Operating expenses – Wireless segment

<table>
<thead>
<tr>
<th>($ in millions)</th>
<th>Third quarters ended September 30</th>
<th>Nine-month periods ended September 30</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2019</td>
<td>2018</td>
</tr>
<tr>
<td>Goods and services purchased:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Equipment sales expenses</td>
<td>481</td>
<td>483</td>
</tr>
<tr>
<td>Network operating expenses</td>
<td>205</td>
<td>217</td>
</tr>
<tr>
<td>Marketing expenses</td>
<td>103</td>
<td>103</td>
</tr>
<tr>
<td>Other(^1,2)</td>
<td>176</td>
<td>261</td>
</tr>
<tr>
<td>Employee benefits expense(^1)</td>
<td>164</td>
<td>176</td>
</tr>
<tr>
<td>Wireless operating expenses(^2)</td>
<td>1,129</td>
<td>1,240</td>
</tr>
</tbody>
</table>

1. Includes restructuring and other costs. See Section 11.1 Non-GAAP and other financial measures.
2. Includes a donation to the TELUS Friendly Future Foundation allocated to the wireless segment of $59 million (50% of the total of $118 million) recorded in other costs in the third quarter of 2018. Excluding the effect of this donation, wireless operating expenses decreased by 4.4% in the third quarter of 2019 and 3.2% in the first nine months of 2019.
Wireless operating expenses decreased by $111 million in the third quarter of 2019 and $166 million in the first nine months of 2019. Excluding the effect of the non-recurring third quarter 2018 donation to the TELUS Friendly Future Foundation allocated to the wireless segment of $59 million (50% of the total of $118 million), wireless operating expenses decreased by $52 million in the third quarter of 2019 and $107 million in the first nine months of 2019.

**Equipment sales expenses** decreased by $2 million in the third quarter of 2019, due to lower volumes, and increased by $22 million in the first nine months of 2019, reflecting higher-value smartphones in the sales mix.

**Network operating expenses** decreased by $12 million in the third quarter of 2019 and $37 million in the first nine months of 2019, mainly due to the application of IFRS 16.

**Marketing expenses** were flat in the third quarter of 2019 and increased by $8 million in the first nine months of 2019, primarily due to higher commissions expense.

**Other goods and services purchased** decreased by $85 million in the third quarter of 2019 and $131 million in the first nine months of 2019, mainly due to the non-recurrence of a donation to the TELUS Friendly Future Foundation in the third quarter of 2018, of which 50% of the total of $118 million was allocated to each of the wireless and wireline segments. Excluding the effect of the donation, Other goods and services purchased decreased by $26 million in the third quarter of 2019 and $72 million in the first nine months of 2019, primarily driven by the application of IFRS 16, cost efficiency programs, and the non-recurrence of higher costs associated with a fourth quarter 2017 aggressive holiday rate plan offer that stimulated significant traffic in the prior year, partly offset by higher external labour.

**Employee benefits expense** decreased by $12 million in the third quarter of 2019 and $28 million in the first nine months of 2019, primarily due to higher capitalized labour costs and lower labour-related restructuring and other costs, partly offset by higher internal labour costs from compensation increases.

### EBITDA – Wireless segment

<table>
<thead>
<tr>
<th>($) in millions, except margins</th>
<th>Third quarters ended September 30</th>
<th>Nine-month periods ended September 30</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2019</td>
<td>2018</td>
</tr>
<tr>
<td>EBITDA</td>
<td>970</td>
<td>921</td>
</tr>
<tr>
<td>Add restructuring and other costs included in EBITDA</td>
<td>6</td>
<td>76</td>
</tr>
<tr>
<td>Deduct non-recurring gains and equity income related to real estate joint ventures</td>
<td>—</td>
<td>(85)</td>
</tr>
<tr>
<td>Adjusted EBITDA</td>
<td>976</td>
<td>912</td>
</tr>
<tr>
<td>EBITDA margin (%)</td>
<td>46.2</td>
<td>42.6</td>
</tr>
<tr>
<td>Adjusted EBITDA margin (%)</td>
<td>46.5</td>
<td>43.9</td>
</tr>
</tbody>
</table>

1. Excluding the third quarter 2018 equity income described in footnote 3 and the third quarter 2018 donation described in footnote 2, EBITDA increased by 8.4% in the third quarter of 2019 and 8.6% in the first nine months of 2019.
2. Includes a donation to the TELUS Friendly Future Foundation allocated to the wireless segment of $59 million (50% of the total of $118 million) recorded in other costs in the third quarter of 2018.
3. Includes equity income related to real estate joint ventures allocated to the wireless segment of $85 million (50% of the total of $171 million) arising from the sale of TELUS Garden recorded in the third quarter of 2018.
4. See description under **EBITDA** in Section 11.1 Non-GAAP and other financial measures.
5. Adjusted EBITDA margin is Adjusted EBITDA divided by Operating revenues, where the calculation of Operating revenues excludes non-recurring gains and equity income related to real estate joint ventures.

Wireless EBITDA increased by $49 million or 5.3% in the third quarter of 2019 and $196 million or 7.5% in the first nine months of 2019. Excluding the effects of the non-recurring third quarter 2018 equity income related to real estate joint ventures arising from the sale of TELUS Garden allocated to the wireless segment of $85 million (50% of the total of $171 million) and the donation to the TELUS Friendly Future Foundation allocated to the wireless segment of $59 million (50% of the total of $118 million), wireless EBITDA increased by $75 million or 8.4% in the third quarter of 2019 and $222 million or 8.6% in the first nine months of 2019. Wireless Adjusted EBITDA increased by $64 million or 7.0% in the third quarter of 2019, reflecting higher network revenue growth driven by a larger subscriber base, savings from cost efficiency programs and the implementation of IFRS 16. Wireless Adjusted EBITDA increased by $208 million or 8.0% in the first nine months of 2019, reflecting higher network revenue growth driven by a larger subscriber base, lower employee benefits expense, savings from cost efficiency programs, higher equipment margins and the implementation of IFRS 16.

Applying a retrospective IFRS 16 simulation to fiscal 2018 results (see **Section 5.3**), pro forma wireless Adjusted EBITDA growth was approximately 4.0% in the third quarter of 2019 and 4.7% in the first nine months of 2019.
5.5 Wireline segment

Wireline trends

The trend over the last eight quarters of increases in wireline service revenue reflects growth in Internet and third wave data services, CCBS revenues, TV revenues, health revenues, and home and business smart technology (including security) revenues, and is partly offset by declining wireline legacy voice and legacy data revenues. As well, increased wireline data service revenue also includes revenues from business acquisitions. The increases in Internet and TV service revenues are being generated by subscriber growth and higher Internet revenue per customer resulting from upgrades to faster speeds, larger data usage rate plans and expansion of our fibre footprint. We expect continued Internet subscriber base growth as the economy grows and as we continue our investments in expanding our fibre-optic infrastructure, including our pre-positioning for 5G. The total number of TV subscribers has increased as a result of higher net additions from diverse product offerings, fibre expansion and bundled product offerings, combined with our low customer churn rate. Residential voice subscriber losses continue to reflect the ongoing trend of substitution to wireless and Internet-based services, but have been partly mitigated by the success of our bundled service offerings and lower-priced offerings. The trend of declining legacy wireline voice revenues is due to technological substitution, greater use of inclusive long distance coupled with lower long distance minutes used, and intensification of competition in the small and medium-sized business market. The migration of business products and services offerings to IP services and the introduction of new competitors yield inherently lower margins compared to some legacy business products and service offerings.

The trends in wireline EBITDA-based operating metrics have been impacted by our adoption of IFRS 16 effective January 1, 2019, as discussed further in Note 2 of the interim consolidated financial statements.

<table>
<thead>
<tr>
<th>Wireline operating indicators</th>
<th>2019</th>
<th>2018</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Subscribers connections:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Internet¹</td>
<td>1,953</td>
<td>1,830</td>
<td>6.7%</td>
</tr>
<tr>
<td>TV</td>
<td>1,145</td>
<td>1,069</td>
<td>7.1%</td>
</tr>
<tr>
<td>Residential voice</td>
<td>1,216</td>
<td>1,260</td>
<td>(3.5%)</td>
</tr>
<tr>
<td>Security²</td>
<td>103</td>
<td>68</td>
<td>51.5%</td>
</tr>
<tr>
<td>**Total Wireline subscriber connections¹ /²</td>
<td>4,417</td>
<td>4,227</td>
<td>4.5%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>(000s)</th>
<th>Third quarters ended September 30</th>
<th>Nine-month periods ended September 30</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2019</td>
<td>2018</td>
</tr>
<tr>
<td><strong>Subscriber connection net additions (losses):</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Internet</td>
<td>32</td>
<td>36</td>
</tr>
<tr>
<td>TV</td>
<td>19</td>
<td>18</td>
</tr>
<tr>
<td>Residential voice</td>
<td>(12)</td>
<td>(12)</td>
</tr>
<tr>
<td>Security²</td>
<td>14</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total Wireline subscriber connection net additions</strong></td>
<td>53</td>
<td>44</td>
</tr>
</tbody>
</table>

1. During the first quarter of 2019, we adjusted cumulative subscriber connections to add approximately 16,000 subscribers from acquisitions undertaken during the quarter.
2. Effective for the third quarter of 2019, with retrospective application to the launch of TELUS-branded security services at the beginning of the third quarter of 2018, we have added security subscriber connections to our total wireline subscriber connections.

Operating revenues – Wireline segment

<table>
<thead>
<tr>
<th>($ in millions)</th>
<th>Third quarters ended September 30</th>
<th>Nine-month periods ended September 30</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2019</td>
<td>2018</td>
</tr>
<tr>
<td>Data services</td>
<td>1,266</td>
<td>1,168</td>
</tr>
<tr>
<td>Voice services</td>
<td>244</td>
<td>267</td>
</tr>
<tr>
<td>Other services and equipment</td>
<td>95</td>
<td>97</td>
</tr>
<tr>
<td>Revenues arising from contracts with customers</td>
<td>1,605</td>
<td>1,532</td>
</tr>
<tr>
<td>Other operating income¹</td>
<td>6</td>
<td>93</td>
</tr>
<tr>
<td>External operating revenues¹</td>
<td>1,611</td>
<td>1,625</td>
</tr>
<tr>
<td>Intersegment revenues</td>
<td>177</td>
<td>167</td>
</tr>
<tr>
<td>Wireline operating revenues¹</td>
<td>1,678</td>
<td>1,677</td>
</tr>
</tbody>
</table>

1. Includes equity income related to real estate joint ventures allocated to the wireline segment of $86 million (50% of the total of $171 million) arising from the sale of TELUS Garden recorded in the third quarter of 2018. Excluding the effect of this third quarter equity income, wireline operating revenues increased by 5.5% in the third quarter of 2019 and 6.1% in the first nine months of 2019.
Total wireline operating revenues increased by $1 million in the third quarter of 2019 and $200 million in the first nine months of 2019. Excluding the effect of the non-recurring third quarter 2018 equity income related to real estate joint ventures arising from the sale of TELUS Garden allocated to the wireline segment of $86 million (50% of the total of $171 million), wireline operating revenues increased by $87 million in the third quarter of 2019 and $286 million in the first nine months of 2019.

- **Data services** revenues increased by $98 million in the third quarter of 2019 and $362 million in the first nine months of 2019. The increases were driven by: (i) growth in CCBS revenues primarily due to growth in business volumes resulting from expanded services for existing customers as well as customer growth; (ii) increased Internet and third wave data service revenues, reflecting higher revenue per customer as a result of upgrades to faster Internet speeds, larger data usage Internet rate plans and certain rate changes, as well as a 6.7% increase in our Internet subscribers over the last 12 months; (iii) increased health revenues, driven by both business acquisitions and expanded services for existing customers; (iv) revenues from our home and business smart technology (including security) lines of business; and (v) increased TV revenues, reflecting subscriber growth of 7.1% over the last 12 months. This growth was partly offset by the ongoing decline in legacy data service revenues.

- **Voice services** revenues decreased by $23 million in the third quarter of 2019 and $79 million in the first nine months of 2019, reflecting the ongoing decline in legacy voice revenues from technological substitution, greater use of inclusive long distance plans and price plan changes. We experienced a 3.5% decline in residential voice subscribers over the last 12 months, as compared to a 4.0% decline in residential voice subscribers for the 12-month period ended September 30, 2018.

- **Other services and equipment** revenues decreased by $2 million in the third quarter of 2019 and $18 million in the first nine months of 2019, mainly due to lower data and voice equipment sales.

- **Wireline subscriber connection net additions** were 53,000 in the third quarter of 2019 and 130,000 in the first nine months of 2019, reflecting increases of 9,000 and 40,000, respectively, compared to the net additions in the same periods of 2018.

  - **Internet net additions** were 32,000 in the third quarter of 2019 and 79,000 in the first nine months of 2019, reflecting decreases of 4,000 for the quarter and 8,000 the nine-month period, compared to the net additions in the respective periods in 2018, as continued net new demand from consumers and businesses, partly due to the launch of our unlimited home Internet data program, was offset by heightened competitive intensity. Our continued focus on connecting more homes and businesses directly to fibre (with TELUS PureFibre available to approximately 67% of our broadband footprint at the end of the third quarter of 2019), expanding and enhancing our addressable high-speed Internet and Optik TV footprint, and bundling these services together contributed to combined Internet and TV subscriber growth of 199,000 over the last 12 months.

  - **TV net additions** were 19,000 in the third quarter of 2019 and 52,000 in the first nine months of 2019, reflecting increases of 1,000 for the quarter and 13,000 for the nine-month period compared to the net additions in the respective periods in 2018. The increase for the quarter reflects higher gross additions as a result of our diverse product offerings, partly offset by heightened competitive intensity. The increase for the nine-month period was mainly due to a lower customer churn rate from stronger retention efforts.

  - **Residential voice net losses** were limited to 12,000 in the third quarter of 2019 and 32,000 in the first nine months of 2019, as compared to residential voice net losses of 12,000 and 38,000, respectively, in the same periods in 2018. The residential voice subscriber losses continue to reflect the trend of substitution to wireless and Internet-based services, partially mitigated by our expanding fibre footprint and bundled product offerings, and the success of our stronger retention efforts, including lower-priced offerings.

  - **Security net additions** were 14,000 in the third quarter of 2019 and 31,000 in the first nine months of 2019, reflecting an increase of 12,000 for the quarter. With the launch of our SmartHome Security and Secure Business lines of business in July 2018, we were able to combine security products and services with enhanced bundling opportunities, which positively impacted security net additions in the third quarter of 2019, and any comparison prior to July 2018 would not be consistent.

**Other operating income** decreased by $87 million in the third quarter of 2019 and $94 million in the first nine months of 2019, mainly due to the non-recurrence of third quarter 2018 equity income related to real estate joint ventures arising from the sale of TELUS Garden. Excluding the effect of equity income related to real estate joint ventures arising from the sale of TELUS Garden, Other operating income was relatively flat in the third quarter of 2019 and decreased by $8 million in the first nine months of 2019 due to the non-recurrence of first quarter 2018 gains on the sale of certain assets.

**Intersegment revenues** represent services provided to the wireless segment, including those from CCBS. Such revenue is eliminated upon consolidation together with the associated expenses in wireless.
Operating expenses – Wireline segment

<table>
<thead>
<tr>
<th>($ in millions)</th>
<th>Third quarters ended September 30</th>
<th>Nine-month periods ended September 30</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2019</td>
<td>2018</td>
</tr>
<tr>
<td><strong>Goods and services purchased</strong></td>
<td>617</td>
<td>685</td>
</tr>
<tr>
<td><strong>Employee benefits expense</strong></td>
<td>597</td>
<td>564</td>
</tr>
<tr>
<td><strong>Wireline operating expenses</strong></td>
<td>1,214</td>
<td>1,249</td>
</tr>
<tr>
<td><strong>Change</strong></td>
<td>$23</td>
<td>$26</td>
</tr>
</tbody>
</table>

1 Includes restructuring and other costs. See Section 11.1 Non-GAAP and other financial measures.
2 Includes a donation to the TELUS Friendly Future Foundation allocated to the wireline segment of $59 million (50% of the total of $118 million) recorded in other costs in the third quarter of 2018. Excluding the effect of this donation, wireline operating expenses increased by 2.0% in the third quarter of 2019 and 4.0% in the first nine months of 2019.

Total wireline operating expenses decreased by $35 million in the third quarter of 2019 and increased by $79 million in the first nine months of 2019. Excluding the effect of the non-recurring third quarter 2018 donation to the TELUS Friendly Future Foundation allocated to the wireline segment of $59 million (50% of the total of $118 million), wireline operating expenses increased by $24 million in the third quarter of 2019 and $138 million in the first nine months of 2019.

**Goods and services purchased** decreased by $68 million in the third quarter of 2019 and $23 million in the first nine months of 2019, mainly due to the non-recurrence of a donation to the TELUS Friendly Future Foundation in the third quarter of 2018. Excluding the effect of the donation, Goods and services purchased decreased by $9 million in the third quarter of 2019 mainly due to the application of IFRS 16, partly offset by higher external labour and other administrative costs supporting CCBS revenue growth and related to business acquisitions, higher TV content costs largely driven by our growing TV content rates and TV subscriber base, as well as higher product costs associated with growth in health services. In the first nine months of 2019, excluding the effect of the donation, Goods and services increased by $36 million due to higher product costs associated with growth in health services, higher external labour and other administrative costs supporting CCBS revenue growth and related to business acquisitions, increases in non-labour-related restructuring and other costs related to efficiency initiatives, and higher TV content costs mainly driven by our growing TV content rates and TV subscriber base. In the first nine months of 2019, the increase in Goods and services purchased was partly offset by the application of IFRS 16.

**Employee benefits expense** increased by $33 million in the third quarter of 2019 and $102 million in the first nine months of 2019, primarily due to increases in compensation and benefit costs resulting from an increase in the number of employees supporting CCBS revenue growth, business acquisitions, and higher internal labour costs from compensation increases, partly offset by a decrease in the number of domestic FTEs, excluding business acquisitions, lower share-based compensation and lower labour-related restructuring and other costs.

**EBITDA – Wireline segment**

<table>
<thead>
<tr>
<th>($ in millions, except margins)</th>
<th>Third quarters ended September 30</th>
<th>Nine-month periods ended September 30</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2019</td>
<td>2018</td>
</tr>
<tr>
<td><strong>EBITDA</strong></td>
<td>464</td>
<td>428</td>
</tr>
<tr>
<td>Add restructuring and other costs included in EBITDA</td>
<td>23</td>
<td>97</td>
</tr>
<tr>
<td>Deduct non-recurring gains and equity income related to real estate joint ventures</td>
<td>—</td>
<td>(86)</td>
</tr>
<tr>
<td><strong>Adjusted EBITDA</strong></td>
<td>487</td>
<td>439</td>
</tr>
<tr>
<td><strong>EBITDA margin (%)</strong></td>
<td>27.6</td>
<td>25.6</td>
</tr>
<tr>
<td><strong>Adjusted EBITDA margin (%)</strong></td>
<td>29.0</td>
<td>27.6</td>
</tr>
</tbody>
</table>

1 Excluding the third quarter 2018 equity income described in footnote 3 and the third quarter 2018 donation described in footnote 2. EBITDA increased by 15.7% in the third quarter of 2019 and 11.9% in the first nine months of 2019.
2 Includes a donation to the TELUS Friendly Future Foundation allocated to the wireline segment of $59 million (50% of the total of $118 million) recorded in other costs in the third quarter of 2018.
3 Includes equity income related to real estate joint ventures allocated to the wireline segment of $86 million (50% of the total of $171 million) arising from the sale of TELUS Garden recorded in the third quarter of 2018.
4 See description under EBITDA in Section 11.1 Non-GAAP and other financial measures.
5 Adjusted EBITDA margin is Adjusted EBITDA divided by Operating revenues, where the calculation of Operating revenues excludes non-recurring gains and equity income related to real estate joint ventures.

Wireline EBITDA increased by $36 million or 8.4% in the third quarter of 2019 and $121 million or 9.5% in the first nine months of 2019 and wireline EBITDA includes our estimated impact of the CRTC’s decision on wholesale Internet service rates recorded in the third quarter of 2019. Excluding the effects of the non-recurring third quarter 2018 equity income related to real estate joint ventures arising from the sale of TELUS Garden allocated to the wireline segment of $86 million (50% of the total of $171 million) and the donation to the TELUS Friendly Future Foundation allocated to the
wireline segment of $59 million (50% of the total of $118 million), wireline EBITDA increased by $63 million or 15.7% in the third quarter of 2019 and $148 million or 11.9% in the first nine months of 2019. Wireline Adjusted EBITDA increased by $48 million or 10.9% in the third quarter of 2019 and $132 million and 9.9% in the first nine months of 2019. This reflects an increased contribution from our CCBS business from expanded services for existing customers, higher Internet margins and higher health margins mainly from expanded services for existing customers and operational efficiencies, contribution from our security business lines, and the implementation of IFRS 16, partly offset by the continued declines in legacy voice and legacy data services, higher employee benefits expense and other costs related to business acquisitions, and a decline in the EBITDA contribution from our legacy business services.

Applying a retrospective IFRS 16 simulation to fiscal 2018 results (see Section 5.3), pro forma wireline Adjusted EBITDA growth was approximately 4.3% in the third quarter of 2019 and 3.7% in the first nine months of 2019.

### 6. Changes in financial position

<table>
<thead>
<tr>
<th>Financial position at:</th>
<th>Sept. 30</th>
<th>Dec. 31</th>
<th>Change</th>
<th>Change includes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>($ millions)</td>
<td>2019</td>
<td>2018</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Current assets</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cash and temporary investments, net</td>
<td>370</td>
<td>414</td>
<td>(44)</td>
<td>See Section 7 Liquidity and capital resources</td>
</tr>
<tr>
<td>Accounts receivable</td>
<td>1,835</td>
<td>1,600</td>
<td>235</td>
<td>Increases due to the timing of wireless wholesale customer receipts and introduction of the TELUS Easy Payment device financing program in the third quarter of 2019</td>
</tr>
<tr>
<td>Income and other taxes receivable</td>
<td>123</td>
<td>3</td>
<td>120</td>
<td>Instalments to date are greater than the expense</td>
</tr>
<tr>
<td>Inventories</td>
<td>367</td>
<td>376</td>
<td>(9)</td>
<td>A decrease in the volume of handsets, partly offset by a higher cost mix of smartphones</td>
</tr>
<tr>
<td>Contract assets</td>
<td>795</td>
<td>860</td>
<td>(65)</td>
<td>Refer to description in non-current contract assets</td>
</tr>
<tr>
<td>Prepaid expenses</td>
<td>618</td>
<td>539</td>
<td>79</td>
<td>Increased due to the annual prepayment of statutory employee benefits, maintenance contracts, property taxes and wireless spectrum licence fees, net of amortization</td>
</tr>
<tr>
<td>Current derivative assets</td>
<td>7</td>
<td>49</td>
<td>(42)</td>
<td>A decrease in the spread between the hedging rate and the actual rate at the balance sheet date.</td>
</tr>
<tr>
<td><strong>Current liabilities</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Short-term borrowings</td>
<td>101</td>
<td>100</td>
<td>1</td>
<td>See Section 7.7 Sale of trade receivables</td>
</tr>
<tr>
<td>Accounts payable and accrued liabilities</td>
<td>2,844</td>
<td>2,570</td>
<td>274</td>
<td>Increase in payables associated with the timing of wireless wholesale payments and the timing of accounts payable. See Note 23 of the interim consolidated financial statements</td>
</tr>
<tr>
<td>Income and other taxes payable</td>
<td>53</td>
<td>218</td>
<td>(165)</td>
<td>Decrease due to final instalment payments for the previous year partially offset by current income tax expense in excess of instalments for the current year</td>
</tr>
<tr>
<td>Dividends payable</td>
<td>338</td>
<td>326</td>
<td>12</td>
<td>Effects of increases in the dividend rate as well as the number of shares outstanding</td>
</tr>
<tr>
<td>Advance billings and customer deposits</td>
<td>649</td>
<td>656</td>
<td>(7)</td>
<td>A decrease in wireline advance billings during the period. See Note 24 of the interim consolidated financial statements</td>
</tr>
<tr>
<td>Provisions</td>
<td>93</td>
<td>129</td>
<td>(36)</td>
<td>Restructuring disbursements exceeded new restructuring provisions. See Note 25 of the interim consolidated financial statements</td>
</tr>
<tr>
<td>Current maturities of long-term debt</td>
<td>1,056</td>
<td>836</td>
<td>220</td>
<td>An increase due to the initial recognition of lease liabilities resulting from the implementation of IFRS 16, partially offset by a decrease in outstanding commercial paper</td>
</tr>
<tr>
<td>Current derivative liabilities</td>
<td>2</td>
<td>9</td>
<td>(7)</td>
<td>Maturations of the interest rate swap associated with the refinancing of debt maturing.</td>
</tr>
<tr>
<td><strong>Working capital</strong></td>
<td></td>
<td></td>
<td></td>
<td>TELUS normally has a negative working capital position. See Financing and capital structure management plans in Section 4.3 and the Liquidity risk discussion in Section 7.9.</td>
</tr>
</tbody>
</table>

(Continued from the previous page)
Financial position at:

<table>
<thead>
<tr>
<th>Sept. 30</th>
<th>Dec. 31</th>
<th>Change</th>
<th>Change includes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>($ millions)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Non-current assets</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Property, plant and equipment, net</td>
<td>13,767</td>
<td>12,091</td>
<td>1,676</td>
</tr>
<tr>
<td>Intangible assets, net</td>
<td>12,417</td>
<td>10,934</td>
<td>1,483</td>
</tr>
<tr>
<td>Goodwill, net</td>
<td>4,947</td>
<td>4,747</td>
<td>200</td>
</tr>
<tr>
<td>Contract assets</td>
<td>350</td>
<td>458</td>
<td>(108)</td>
</tr>
<tr>
<td>Other long-term assets</td>
<td>1,131</td>
<td>986</td>
<td>145</td>
</tr>
<tr>
<td><strong>Non-current liabilities</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Provisions</td>
<td>712</td>
<td>728</td>
<td>(16)</td>
</tr>
<tr>
<td>Long-term debt</td>
<td>16,140</td>
<td>13,265</td>
<td>2,875</td>
</tr>
<tr>
<td>Other long-term liabilities</td>
<td>670</td>
<td>731</td>
<td>(61)</td>
</tr>
<tr>
<td>Deferred income taxes</td>
<td>3,214</td>
<td>3,148</td>
<td>66</td>
</tr>
<tr>
<td><strong>Owners’ equity</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Common equity</td>
<td>10,754</td>
<td>10,259</td>
<td>495</td>
</tr>
<tr>
<td>Non-controlling interests</td>
<td>101</td>
<td>82</td>
<td>19</td>
</tr>
</tbody>
</table>

7. Liquidity and capital resources

This section contains forward-looking statements, including those with respect to our dividend payout ratio and net debt to EBITDA – excluding restructuring and other costs ratio. See Caution regarding forward-looking statements at the beginning of this MD&A.

7.1 Overview

Our capital structure financial policies and financing and capital structure management plans are described in Section 4.3.

<table>
<thead>
<tr>
<th>Cash flows</th>
<th>Third quarters ended September 30</th>
<th>Nine-month periods ended September 30</th>
</tr>
</thead>
<tbody>
<tr>
<td>($ millions)</td>
<td>2019</td>
<td>2018</td>
</tr>
<tr>
<td>Cash provided by operating activities</td>
<td>1,148</td>
<td>1,066</td>
</tr>
<tr>
<td>Cash used by investing activities</td>
<td>(871)</td>
<td>(621)</td>
</tr>
<tr>
<td>Cash (used) provided by financing activities</td>
<td>(124)</td>
<td>(695)</td>
</tr>
<tr>
<td>Increase (decrease) in Cash and temporary investments, net</td>
<td>153</td>
<td>(250)</td>
</tr>
<tr>
<td>Cash and temporary investments, net, beginning of period</td>
<td>217</td>
<td>683</td>
</tr>
<tr>
<td>Cash and temporary investments, net, end of period</td>
<td>370</td>
<td>433</td>
</tr>
</tbody>
</table>
7.2 Cash provided by operating activities

Analysis of changes in cash provided by operating activities

<table>
<thead>
<tr>
<th>($ millions)</th>
<th>Third quarters ended September 30</th>
<th>Nine-month periods ended September 30</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2019</td>
<td>2018</td>
</tr>
<tr>
<td>EBITDA (see Section 5.4 and Section 5.5)</td>
<td>1,434</td>
<td>1,349</td>
</tr>
<tr>
<td>Restructuring and other costs, net of disbursements</td>
<td>(3)</td>
<td>142</td>
</tr>
<tr>
<td>Employee defined benefit plans expense, net of employer contributions</td>
<td>9</td>
<td>15</td>
</tr>
<tr>
<td>Share-based compensation expense, net of payments</td>
<td>14</td>
<td>34</td>
</tr>
<tr>
<td>Interest paid, net of interest received</td>
<td>(206)</td>
<td>(196)</td>
</tr>
<tr>
<td>Income taxes paid, net of recoveries received</td>
<td>(97)</td>
<td>(49)</td>
</tr>
<tr>
<td>Other operating working capital changes</td>
<td>(3)</td>
<td>99</td>
</tr>
<tr>
<td>Cash provided by operating activities</td>
<td>1,148</td>
<td>1,066</td>
</tr>
</tbody>
</table>

- Restructuring and other costs, net of disbursements, represented a net change of $145 million in the third quarter of 2019 and $180 million in the first nine months of 2019. These changes were largely attributed to the non-recurring donation to the TELUS Friendly Future Foundation in the third quarter of 2018.

- Interest paid, net of interest received, increased by $10 million in the third quarter of 2019 and $56 million in the first nine months of 2019, largely due to interest paid on lease liabilities, and an increase in the average long-term debt balance which was partly offset by a lower weighted-average interest rate on long-term debt.

- Income taxes paid, net of recoveries received, increased by $48 million in the third quarter of 2019 and $413 million in the first nine months of 2019, primarily due to higher required instalment payments, and in the first nine months of 2019, a higher final income tax payment of $270 million, in the first quarter of 2019, for the 2018 income tax year.

- For a discussion of Other operating working capital changes, see Section 6 Changes in financial position and Note 31(a) of the interim consolidated financial statements.

- Cash provided by operating activities was impacted by the implementation of IFRS 16, as the repayments of lease liabilities, where the principal component of leases that were previously accounted for as operating leases and previously classified within Cash provided by operating activities is reflected as Cash used by financing activities under the new accounting standard. These repayments were $38 million in the third quarter of 2019 and $165 million in the first nine months of 2019.

7.3 Cash used by investing activities

Analysis of changes in cash used by investing activities

<table>
<thead>
<tr>
<th>($ millions)</th>
<th>Third quarters ended September 30</th>
<th>Nine-month periods ended September 30</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2019</td>
<td>2018</td>
</tr>
<tr>
<td>Cash payments for capital assets, excluding spectrum licences</td>
<td>(694)</td>
<td>(759)</td>
</tr>
<tr>
<td>Cash payments for spectrum licences</td>
<td>(11)</td>
<td>(1)</td>
</tr>
<tr>
<td>Cash payments for acquisitions, net</td>
<td>(160)</td>
<td>(34)</td>
</tr>
<tr>
<td>Real estate joint ventures (advances, net of receipts) receipts, net of advances</td>
<td>(9)</td>
<td>175</td>
</tr>
<tr>
<td>Proceeds on dispositions and Other</td>
<td>3</td>
<td>(2)</td>
</tr>
<tr>
<td>Cash used by investing activities</td>
<td>(871)</td>
<td>(621)</td>
</tr>
</tbody>
</table>

- The decrease in Cash payments for capital assets, excluding spectrum licences for both the third quarter of 2019 and the first nine months of 2019, was composed of:
  - A decrease in capital expenditures of $14 million in the third quarter of 2019 and $39 million in the first nine months of 2019 (see Capital expenditure measures table and discussion below).
  - Lower capital expenditure payments with respect to payment timing differences, as the change in associated Accounts payable and accrued liabilities increased by $51 million in the third quarter of 2019 and $61 million in the first nine months of 2019.
  - Cash payments for spectrum licences in the first nine months of 2019 includes the 600 MHz spectrum auction.
In the third quarter of 2019, we made cash payments for business acquisitions, including a smart data solutions business and other individually immaterial acquisitions complementary to our existing lines of business. In the first nine months of 2019, we also made cash payments for business acquisitions that include a telecommunications business and other individually immaterial acquisitions complementary to our existing lines of business. This is compared to business acquisition activity in the first nine months of 2018 that included Medisys Health Group Inc., certain assets of AlarmForce Industries Inc., Xavient Information Systems and other individually immaterial acquisitions complementary to our existing lines of business.

### Capital expenditure measures

<table>
<thead>
<tr>
<th>($ millions, except capital intensity)</th>
<th>Third quarters ended September 30</th>
<th>Nine-month periods ended September 30</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2019</td>
<td>2018</td>
</tr>
<tr>
<td>Capital expenditures¹</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wireless segment</td>
<td>251</td>
<td>218</td>
</tr>
<tr>
<td>Wireline segment</td>
<td>497</td>
<td>544</td>
</tr>
<tr>
<td>Consolidated</td>
<td>748</td>
<td>762</td>
</tr>
<tr>
<td>Wireless segment capital intensity (%)</td>
<td>12</td>
<td>10</td>
</tr>
<tr>
<td>Wireline segment capital intensity (%)</td>
<td>30</td>
<td>32</td>
</tr>
<tr>
<td>Consolidated capital intensity² (%)</td>
<td>20</td>
<td>20</td>
</tr>
</tbody>
</table>

1 Capital expenditures include assets purchased, excluding right-of-use lease assets, but not yet paid for, and therefore differ from Cash payments for capital assets, excluding spectrum licences, as reported in the condensed interim consolidated statements of cash flows. Refer to Note 31 of the interim consolidated financial statements for further information.

2 See Section 11.1 Non-GAAP and other financial measures.

**Consolidated capital expenditures** decreased by $14 million in the third quarter of 2019 and $39 million in the first nine months of 2019 primarily due to the timing of our fibre build activities, partially offset by increased 5G investments which began in the fourth quarter of 2018. For the first nine months of 2019, we reduced our incremental investments in 4G technology as our 5G investments were expanding. Additionally, we incurred investments in systems development to support our Easy Payment and Peace of Mind rate plan offerings. With our ongoing investments, we are advancing wireless speeds and coverage, including pre-positioning for 5G, continuing to connect additional homes and businesses directly to our fibre-optic technology, and supporting systems reliability and operational efficiency and effectiveness efforts. These investments also support our Internet and TV subscriber growth and our customers’ demand for faster Internet speeds, and extend the reach and functionality of our business and healthcare solutions. At September 30, 2019, we made TELUS PureFibre available to approximately 67% of our broadband footprint.

### 7.4 Cash (used) provided by financing activities

<table>
<thead>
<tr>
<th>($ millions)</th>
<th>Third quarters ended September 30</th>
<th>Nine-month periods ended September 30</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2019</td>
<td>2018</td>
</tr>
<tr>
<td>Dividends paid to holders of Common Shares</td>
<td>(316)</td>
<td>(293)</td>
</tr>
<tr>
<td>Treasury shares acquired</td>
<td>—</td>
<td>(130)</td>
</tr>
<tr>
<td>Issue (repayment) of short-term borrowings, net Long-term debt issued, net of redemptions and repayment</td>
<td>1</td>
<td>(62)</td>
</tr>
<tr>
<td>Issue of shares by subsidiary to non-controlling interests</td>
<td>197</td>
<td>(241)</td>
</tr>
<tr>
<td>Other</td>
<td>—</td>
<td>(6)</td>
</tr>
<tr>
<td>Cash (used) provided by financing activities</td>
<td>(124)</td>
<td>(695)</td>
</tr>
</tbody>
</table>

**Dividends paid to holders of Common Shares**

For the third quarter of 2019 and the first nine months of 2019, cash dividends paid to the holders of Common Shares increased by $23 million and $76 million, respectively, which reflects higher dividend rates under our dividend growth program (see Section 4.3), as well as an increase in the number of shares outstanding. In connection with dividends declared during the three-month and nine-month periods ended September 30, 2019, the dividend reinvestment and share purchase (DRISP) plan trustee purchased shares from Treasury for the DRISP plan instead of acquiring Common Shares in the stock market, for $23 million and $68 million, respectively, with no discount applicable. Effective with the dividends paid October 1, 2019, we offered Common Shares from Treasury at a discount of 2%.

In October 2019, we paid dividends of $224 million to the holders of Common Shares and the Trustee purchased dividend reinvestment Common Shares from Treasury for $114 million, totalling $338 million.
Treasury shares acquired
In the third quarter of 2018, our initial donation of $100 million to the TELUS Friendly Future Foundation was made in TELUS Common Shares acquired in the market.

Issue (repayment) of short-term borrowings, net
In connection with our third quarter 2018 acquisition of Medisys Health Group Inc., we repaid short-term borrowings of $62 million.

Long-term debt issues and repayments
For the third quarter of 2019, long-term debt issues net of repayments were $197 million, resulting in a change of $438 million, compared to long-term debt repayments net of issues of $241 million for the third quarter of 2018, primarily composed of:

- A net increase in commercial paper outstanding, including foreign exchange effects, of $467 million to a balance of $760 million (US$574 million) at September 30, 2019, from a balance of $293 million (US$224 million) at June 30, 2019. Our commercial paper program, when utilized, provides low-cost funds and is fully backstopped by the five-year committed credit facility (see Section 7.6 Credit facilities).
- An increase in net draws on the TELUS International (Cda) Inc. credit facility, including foreign exchange effects, of $3 million. As at September 30, 2019, net draws were US$305 million. As at June 30, 2019, net draws were US$307 million. The credit facility is non-recourse to TELUS Corporation.
- The July 2, 2019, issue of $800 million of senior unsecured 2.75% Notes, Series CZ, due July 8, 2026.
- On May 31, 2019, we exercised our right to early redeem, on July 23, 2019, $650 million of our 5.05% Notes, Series CH. On July 3, 2019, we exercised our right to early redeem, on August 7, 2019, the remaining $350 million not called for redemption on May 31, 2019. The long-term debt prepayment premium for the entire $1 billion Series CH notes redemption recorded in the three-month period ended September 30, 2019 was $28 million before income taxes.
- Repayments of lease liabilities of $38 million, largely related to the implementation of IFRS 16, where the principal component of leases that were previously accounted for as operating leases and previously classified within Cash provided by operating activities is reflected as Cash used by financing activities under the new accounting standard.

For the first nine months of 2019, long-term debt issues net of repayments were $1,251 million, resulting in a change of $1,094 million, compared to long-term debt issues net of repayments of $157 million for the first nine months of 2018. In addition to some activity from the third quarter of 2019, the change in balance for the first nine months of 2019 was primarily composed of:

- A net decrease in commercial paper outstanding, including foreign exchange effects, of $14 million from a balance of $774 million (US$569 million) at December 31, 2018.
- A decrease in net draws on the TELUS International (Cda) Inc. credit facility, including foreign exchange effects, of $20 million. As at December 31, 2018, net draws were US$313 million.
- The April 3, 2019, issue of $1.0 billion senior unsecured 3.30% Notes, Series CY due May 2, 2029.
- The May 28, 2019, issue of US$500 million of senior unsecured 4.30% 30-year Notes due June 15, 2049. We have fully hedged the principal and interest obligations of the notes by entering into a foreign exchange derivative (a cross currency interest rate exchange agreement), which effectively converted the principal payments and interest obligations to Canadian dollar obligations with a fixed interest rate of 4.27% and an issued and outstanding amount of $672 million (reflecting a fixed exchange rate of $1.3435).
- Repayments of lease liabilities of $165 million, largely related to the implementation of IFRS 16.

In comparison, for the third quarter of 2018, long-term debt repayments net of issues were $241 million and were primarily composed of:

- A net increase in commercial paper outstanding, including foreign exchange effects, of $766 million to a balance of $769 million (US$594 million) at September 30, 2018, from a balance of $3 million (US$2 million) at June 30, 2018.
- A decrease in the outstanding amount of revolving component and term loan of the TELUS International (Cda) Inc. credit facility, including foreign exchange effects, of $18 million. As at September 30, 2018, net draws were US$325 million. As at June 30, 2018, net draws were US$334 million.
• The August 1, 2018, early full redemption of $1 billion 5.05% Notes, Series CG. The long-term debt prepayment premium recorded in the three-month period ended September 30, 2018 was $34 million before income taxes.

Long-term debt issues net of repayments for the first nine months of 2018 were $157 million. In addition to some activity from the third quarter of 2018, the change in balance for the first nine months of 2018 was primarily composed of:

• A net reduction in commercial paper, including foreign exchange effects, of $371 million in the first nine months of 2018 from a balance of $1,140 million (US$908 million) at December 31, 2017.

• An increase in net draws on the TELUS International (Cda) Inc. credit facility, including foreign exchange effects, of $75 million. As at December 31, 2017, net draws were US$276 million.

• The March 1, 2018 issues of $600 million of senior unsecured 3.625% Notes, Series CX due March 1, 2028, and $150 million through the re-opening of 4.70% Notes, Series CW due March 6, 2048.

• The March 2018 repayment of $250 million of 1.50% Notes, Series CS.

• The June 2018 issue of US$750 million of senior unsecured 4.60% Notes due November 16, 2048.

The average term to maturity of our long-term debt (excluding commercial paper, the revolving component of the TELUS International (Cda) Inc. credit facility, lease liabilities and other long-term debt) was approximately 12.7 years as at September 30, 2019, increasing from approximately 12.2 years as at December 31, 2018, and approximately 12.5 years as at September 30, 2018. Additionally, our weighted average cost of long-term debt (excluding commercial paper, the revolving component of the TELUS International (Cda) Inc. credit facility, lease liabilities and other long-term debt) was 3.98% as at September 30, 2019, as compared to 4.18% as at both December 31, 2018 and September 30, 2018.

**Issue of shares by subsidiary to non-controlling interests**

In connection with our February 2018 acquisition of Xavient, our TELUS International (Cda) Inc. subsidiary issued shares to non-controlling interests. There was no comparable activity in the third quarter of 2019 or first nine months of 2019.

**7.5 Liquidity and capital resource measures**

**Net debt** was $17.0 billion at September 30, 2019, an increase of $3.3 billion when compared to one year earlier, resulting mainly from the $1.6 billion recognition of lease liabilities upon the application of IFRS 16, the issuances of the $1.0 billion of Series CY notes, US$500 million of senior unsecured 4.30% Notes and $800 million of Series CZ notes as described in Section 7.4, and lower Cash and temporary investments. These factors were partially offset by the early redemption of Series CH notes as described in Section 7.4 and a decrease in commercial paper.

**Fixed-rate debt as a proportion of total indebtedness** excludes lease liabilities and was 93% as at September 30, 2019, up from 92% one year earlier, mainly due to the issuances of Series CY notes, US$500 million notes and Series CZ notes, partly offset by the early redemption of Series CH notes, all as described in Section 7.4. In addition, there was a decrease in the amounts drawn on the TELUS International (Cda) Inc. credit facility, which is non-recourse to TELUS Corporation and a net decrease in commercial paper outstanding, which emulates floating-rate debt.

**Net debt to EBITDA – excluding restructuring and other costs** ratio was 3.05 times, as measured at September 30, 2019, up from 2.54 times one year earlier, largely attributed to the $1.6 billion recognition of lease liabilities upon the application of IFRS 16 as we did not retrospectively adjust amounts reported for periods prior to fiscal 2019 (see Note 2(a) of the interim consolidated financial statements). Our long-term objective for this measure is within a range of 2.00 to 2.50 times, which we believe is consistent with maintaining investment grade credit ratings in the range of BBB+, or the equivalent, and providing reasonable access to capital. As at September 30, 2019, this ratio remains outside of the long-term objective range due to prior issuances of incremental debt, primarily due to the acquisition of spectrum licences and business acquisitions, partially offset by growth in EBITDA – excluding restructuring and other costs (including that the transition method for IFRS 16 has currently only included nine months’ effect on the trailing EBITDA). As at September 30, 2019, the acquisition of spectrum licences increased the ratio by approximately 0.22; the implementation of IFRS 16 had the combined effect of increasing the ratio by approximately 0.17; and business acquisitions over the last 12 months increased the ratio by approximately 0.06. Our acquired spectrum licences have more than doubled our national spectrum holdings and represent an investment to extend our network capacity to support continuing data consumption growth, as well as growth in our wireless subscriber base. Given the cash demands of the recent 2019 and upcoming spectrum auctions, the assessment of the guideline and return to the objective range remains to be determined; however, it is our intent to return to this ratio below 2.50 times in the medium term (following upcoming spectrum auctions), consistent with our long-term strategy. While this ratio exceeds our long-term objective range, we are well in compliance with the leverage ratio covenant in our credit facilities, which states that we may not permit our net debt to operating cash flow ratio to exceed 4.00:1.00 (see Section 7.6 Credit facilities).
**Liquidity and capital resource measures**

<table>
<thead>
<tr>
<th></th>
<th>As at, or 12-month periods ended, September 30</th>
<th>2019</th>
<th>2018</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Components of debt and coverage ratios</strong> ($ millions)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Net debt</td>
<td>17,029</td>
<td>13,698</td>
<td></td>
<td>3,331</td>
</tr>
<tr>
<td>EBITDA – excluding restructuring and other costs</td>
<td>5,590</td>
<td>5,388</td>
<td></td>
<td>202</td>
</tr>
<tr>
<td>Net interest cost</td>
<td>723</td>
<td>633</td>
<td></td>
<td>90</td>
</tr>
<tr>
<td><strong>Debt ratios</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fixed-rate debt as a proportion of total indebtedness (excluding lease liabilities) (%)</td>
<td>93</td>
<td>92</td>
<td></td>
<td>1 pt.</td>
</tr>
<tr>
<td>Average term to maturity of long-term debt (excluding commercial paper, the revolving component of the TELUS International (Cda) Inc. credit facility, lease liabilities and other long-term debt) (years)</td>
<td>12.7</td>
<td>12.5</td>
<td></td>
<td>0.2</td>
</tr>
<tr>
<td>Weighted average interest rate on long-term debt (excluding commercial paper, the revolving component of the TELUS International (Cda) Inc. credit facility, lease liabilities and other long-term debt) (%)</td>
<td>3.98</td>
<td>4.18</td>
<td></td>
<td>(0.20 pts.)</td>
</tr>
<tr>
<td>Net debt to EBITDA – excluding restructuring and other costs(^1) (times)</td>
<td>3.05</td>
<td>2.54</td>
<td></td>
<td>0.51</td>
</tr>
<tr>
<td><strong>Coverage ratios</strong> (times)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Earnings coverage</td>
<td>4.1</td>
<td>4.5</td>
<td></td>
<td>(0.4)</td>
</tr>
<tr>
<td>EBITDA – excluding restructuring and other costs interest coverage</td>
<td>7.7</td>
<td>8.5</td>
<td></td>
<td>(0.8)</td>
</tr>
<tr>
<td><strong>Other measures</strong> (%)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dividend payout ratio</td>
<td>77</td>
<td>77</td>
<td></td>
<td>— pts.</td>
</tr>
<tr>
<td>Dividend payout ratio of adjusted net earnings</td>
<td>84</td>
<td>79</td>
<td></td>
<td>5 pts.</td>
</tr>
</tbody>
</table>

1 See Section 11.1 Non-GAAP and other financial measures.

**Earnings coverage** ratio for the 12-month period ended September 30, 2019 was 4.1 times, down from 4.5 times one year earlier. An increase in income before borrowing costs and income taxes increased the ratio by 0.1, while an increase in borrowing costs, including the recognition of interest (currently only for the nine-month period ended September 30, 2019) on lease liabilities upon the application of IFRS 16, reduced the ratio by 0.5.

**EBITDA – excluding restructuring and other costs interest coverage** ratio for the 12-month period ended September 30, 2019 was 7.7 times, down from 8.5 times one year earlier. Growth in EBITDA – excluding restructuring and other costs increased the ratio by 0.3, while an increase in net interest costs, including the recognition of interest (currently only for the nine-month period ended September 30, 2019) on lease liabilities upon the application of IFRS 16, reduced the ratio by 1.1.

**Dividend payout ratios:** Actual dividend payout decisions will continue to be subject to our Board’s assessment and the determination of our financial position and outlook, as well as our dividend payout objective range of 65 to 75% of prospective net earnings per share for 2019. The disclosed basic and adjusted dividend payout ratios are historical measures utilizing the last four quarters of dividends declared and earnings per share. So as to be consistent with the way we manage our business, we have revised our target guideline, effective January 1, 2020, to be calculated as 60 to 75% of free cash flow on a prospective basis. The historical measures for the 12-month period ended September 30, 2019, are presented for illustrative purposes in evaluating our target guideline, with the adjusted dividend payout ratio exceeding the objective range.

### 7.6 Credit facilities

At September 30, 2019, we had available liquidity of approximately $1.5 billion from the TELUS revolving credit facility and approximately $203 million of available liquidity from the TELUS International (Cda) Inc. credit facility. In addition, we had $400 million available under our trade receivables securitization program (see Section 7.7 Sale of trade receivables). We are well within our objective of generally maintaining at least $1.0 billion of available liquidity.

**TELUS revolving credit facility**

We have a $2.25 billion (or U.S. dollar equivalent) unsecured revolving credit facility with a syndicate of financial institutions, expiring May 31, 2023. The revolving credit facility is used for general corporate purposes, including the backstop of commercial paper, as required.
Our revolving credit facility contains customary covenants, including a requirement that we not permit our consolidated leverage ratio to exceed 4.00 to 1.00 and that we not permit our consolidated coverage ratio to be less than 2.00 to 1.00 at the end of any financial quarter. As at September 30, 2019, our consolidated leverage ratio was approximately 3.05 to 1.00 and our consolidated coverage ratio was approximately 7.73 to 1.00. These ratios are expected to remain well within the covenants. There are certain minor differences in the calculation of the leverage ratio and coverage ratio under the revolving credit facility, as compared with the calculation of Net debt to EBITDA – excluding restructuring and other costs and EBITDA – excluding restructuring and other costs interest coverage. Historically, the calculations have not been materially different. The covenants are not impacted by revaluation, if any, of Property, plant and equipment, Intangible assets or Goodwill for accounting purposes. Continued access to our credit facilities is not contingent on maintaining a specific credit rating.

**Commercial paper**

TELUS Corporation has an unsecured commercial paper program, which is backstopped by our revolving credit facility, enabling us to issue commercial paper up to a maximum aggregate amount at any one time of $1.4 billion as at September 30, 2019. Foreign currency forward contracts are used to manage currency risk arising from issuing commercial paper denominated in U.S. dollars. The commercial paper program is to be used for general corporate purposes, including, but not limited to, capital expenditures and investments. Our ability to reasonably access the commercial paper market in Canada and the U.S. is dependent on our credit ratings (see Section 7.8 Credit ratings).

**TELUS International (Cda) Inc. credit facility**

As at September 30, 2019, TELUS International (Cda) Inc. had a bank credit facility, secured by its assets, expiring on December 20, 2022, with a syndicate of financial institutions. The credit facility is composed of a US$350 million revolving component and an amortizing US$120 million term loan component. The credit facility is non-recourse to TELUS Corporation. The outstanding revolving component had a weighted average interest rate of 3.49% as at September 30, 2019.

**Other letter of credit facilities**

At September 30, 2019, we had $182 million of letters of credit outstanding (December 31, 2018 – $184 million) issued under various uncommitted facilities; such letter of credit facilities are in addition to the ability to provide letters of credit pursuant to our committed bank credit facility. Available liquidity under various uncommitted letters of credit facilities was $133 million at September 30, 2019. We had arranged $880 million of incremental letters of credit to allow us to participate in Innovation, Science and Economic Development Canada’s 600 MHz wireless spectrum auction that was held from March to April 2019, as discussed further in Note 18(a) of the interim consolidated financial statements. Concurrent with funding the purchase of the spectrum licences these incremental letters of credit were extinguished.

**Other long-term debt**

Other long-term debt liabilities bear interest at 3.29%, are secured by the associated AWS-4 spectrum licences, and are subject to an amortization schedule that results in the principal being repaid over the period to maturity, March 31, 2035.

**Other short-term borrowings**

At September 30, 2019, TELUS Corporation has received a commitment letter for $750 million unsecured, single drawdown, non-revolving credit facility, maturing one year from the completion of documentation, which is to be used for general corporate purposes. The facility will be available upon completion of documentation and satisfaction of conditions precedent; once available, we will have 60 days to draw upon the facility after which time the undrawn committed amount will be cancelled. As at November 7, 2019, documentation had not been completed. The credit facility will bear interest at prime rate or bankers’ acceptance rate (all such terms as used or defined in the credit facility), plus applicable margins; representations, warranties and covenants generally will not differ from those of the TELUS revolving credit facility.

### TELUS revolving credit facility at September 30, 2019

<table>
<thead>
<tr>
<th>($ millions)</th>
<th>Expiry</th>
<th>Size</th>
<th>Drawn</th>
<th>Outstanding undrawn letters of credit</th>
<th>Backstop for commercial paper program</th>
<th>Available liquidity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Five-year revolving facility</td>
<td>May 31, 2023</td>
<td>2,250</td>
<td>—</td>
<td>—</td>
<td>(760)</td>
<td>1,490</td>
</tr>
</tbody>
</table>

1 Canadian dollars or U.S. dollar equivalent.
7.7 Sale of trade receivables

TELUS Communications Inc., a wholly owned subsidiary of TELUS, is a party to an agreement with an arm’s-length securitization trust associated with a major Schedule I Canadian bank, under which it is able to sell an interest in certain trade receivables for an amount up to a maximum of $500 million. The agreement is in effect until December 31, 2021, and available liquidity was $400 million as at September 30, 2019. (See Note 22 of the interim consolidated financial statements.) Sales of trade receivables in securitization transactions are recognized as collateralized Short-term borrowings and thus do not result in our de-recognition of the trade receivables sold.

TELUS Communications Inc. is required to maintain at least a BB credit rating by DBRS Ltd. or the securitization trust may require the sale program to be wound down prior to the end of the term. The minimum credit rating was exceeded as of November 7, 2019.

7.8 Credit ratings

There were no changes to our investment grade credit ratings as of November 7, 2019.

7.9 Financial instruments, commitments and contingent liabilities

Financial instruments

Our financial instruments and the nature of certain risks that they may be subject to were described in Section 7.9 of our 2018 annual MD&A.

Liquidity risk

As a component of our capital structure financial policies, discussed in Section 4.3 Liquidity and capital resources, we manage liquidity risk by: maintaining a daily cash pooling process that enables us to manage our available liquidity and our liquidity requirements according to our actual needs; maintaining an agreement to sell trade receivables to an arm’s-length securitization trust; maintaining bilateral bank facilities and syndicated credit facilities; maintaining a commercial paper program; maintaining an in-effect shelf prospectus; continuously monitoring forecast and actual cash flows; and managing maturity profiles of financial assets and financial liabilities.

As at September 30, 2019, we could offer $3.0 billion of debt or equity securities pursuant to a shelf prospectus that is in effect until August 2022.

As at September 30, 2019, we had approximately $1.5 billion of available liquidity from the TELUS revolving credit facility and approximately $203 million of available liquidity from the TELUS International (Cda) Inc. credit facility (see Section 7.6 Credit facilities), as well as $400 million available under our trade receivables securitization program (see Section 7.7 Sale of trade receivables). This adheres to our objective of generally maintaining at least $1 billion of available liquidity. We believe that our investment grade credit ratings contribute to reasonable access to capital markets.

Commitments and contingent liabilities

Purchase obligations

As at September 30, 2019, our contractual commitments related to the acquisition of property, plant and equipment were $123 million through to December 31, 2020, as compared to $148 million over a period ending December 31, 2022 reported as at December 31, 2018. The decrease was primarily attributed to projects completed prior to September 30, 2019.

Claims and lawsuits

A number of claims and lawsuits (including class actions and intellectual property infringement claims) seeking damages and other relief are pending against us and, in some cases, other wireless carriers and telecommunications service providers. As well, we have received notice of, or are aware of, certain possible claims (including intellectual property infringement claims) against us and, in some cases, other wireless carriers and telecommunications service providers.

It is not currently possible for us to predict the outcome of such claims, possible claims and lawsuits due to various factors, including: the preliminary nature of some claims; uncertain damage theories and demands; an incomplete factual record; uncertainty concerning legal theories and procedures and their resolution by the courts, at both the trial and the appeal levels; and the unpredictable nature of opposing parties and their demands.

However, subject to the foregoing limitations, management is of the opinion, based upon legal assessments and information presently available, that it is unlikely that any liability, to the extent not provided for through insurance or otherwise, would have a material effect on our financial position and the results of our operations, including cash flows, with the exception of the items disclosed in Note 29 of the interim consolidated financial statements.

Indemnification obligations

As at September 30, 2019, we had no liability recorded in respect of our indemnification obligations.
7.10 Outstanding share information

<table>
<thead>
<tr>
<th>Common Shares (millions)</th>
<th>September 30, 2019</th>
<th>October 31, 2019</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>602</td>
<td>604</td>
</tr>
</tbody>
</table>

7.11 Transactions between related parties

Transactions with key management personnel
Our key management personnel have authority and responsibility for overseeing, planning, directing and controlling our activities and consist of our Board of Directors and our Executive Leadership Team. Total compensation expense for key management personnel was $6 million and $33 million in the third quarter of 2019 and first nine months of 2019, respectively, as compared to $20 million and $54 million in the comparable periods in 2018. The decrease in compensation expense for key management personnel was due to greater share-based compensation in the respective periods in 2018 primarily arising from metrics affecting performance condition-based restricted stock units. See Note 30(a) of the interim consolidated financial statements for additional details.

Transactions with defined benefit pension plans
We provided management and administrative services to our defined benefit pension plans. Charges for these services were on a cost recovery basis and were immaterial.

Transactions with real estate joint ventures
In the third quarter of 2019, we had transactions with real estate joint ventures, which are related parties to us, as set out in Note 21 of the interim consolidated financial statements.

For the TELUS Sky real estate joint venture, commitments and contingent liabilities include construction-related contractual commitments through to 2020 (approximately $19 million at September 30, 2019) and construction financing ($342 million with three Canadian financial institutions as 66-2/3% lender and TELUS as 33-1/3% lender) under a credit agreement maturing October 31, 2019 (an extension from August 31, 2019). Subsequent to September 30, 2019, the credit agreement was extended to August 31, 2021. We have entered into a lease agreement with the TELUS Sky real estate joint venture; for lease accounting purposes, the lease commenced during the three-month period ended March 31, 2019.

8. Accounting matters

8.1 Critical accounting estimates and judgments
Our significant accounting policies are described in Note 1 of the Consolidated financial statements for the year ended December 31, 2018. The preparation of financial statements in conformity with generally accepted accounting principles (GAAP) requires management to make estimates, assumptions and judgments that affect: the reported amounts of assets and liabilities at the date of the financial statements; the disclosure of contingent assets and liabilities at the date of the financial statements; and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates. Our critical accounting estimates and significant judgments are discussed with our Audit Committee each quarter and are described in Section 8.1 of our 2018 annual MD&A, which is hereby incorporated by reference.

8.2 Accounting policy developments
Our accounting policy developments were discussed in Section 8.2 Accounting policy developments of our 2018 annual MD&A. See Note 2 of the interim consolidated financial statements for additional details.

9. Update to general trends, outlook and assumptions, and regulatory developments and proceedings
This section contains forward-looking statements, which should be read together with the Caution regarding forward-looking statements at the beginning of this MD&A.

The assumptions for our 2019 outlook, as described in Section 9 General trends, outlook and assumptions, and regulatory developments and proceedings of our 2018 annual MD&A, remain the same, except for the following updates:

- Our revised estimate for 2019 GDP growth in Canada is 1.6% (2.0% as reported in our 2018 annual MD&A); in B.C. is 1.9% as updated our first quarter 2019 MD&A (2.3% as reported in our 2018 annual MD&A), and in Alberta is 0.7% (2.1% as reported in our 2018 annual MD&A).
Our revised estimate for the 2019 annual unemployment rate in Canada is 5.7% (5.8% as reported in our 2018 annual MD&A), in B.C. is 4.6% (4.9% as reported in our 2018 annual MD&A), and in Alberta is 6.8% as updated in our first quarter 2019 MD&A (6.2% as reported in our 2018 annual MD&A).

Our revised estimate for the 2019 annual rate of housing starts on an unadjusted basis in Canada is 207,000 units (196,000 units as reported in our 2018 annual MD&A).

The extent to which these economic growth estimates affect us and the timing of their impact will depend upon the actual experience of specific sectors of the Canadian economy.

9.1 Communications industry regulatory developments and proceedings

Our telecommunications, broadcasting and radiocommunication services are regulated under federal laws by various authorities, including the Canadian Radio-television and Telecommunications Commission (CRTC), Innovation, Science and Economic Development Canada (ISED), Canadian Heritage and the Competition Bureau.

The following is a summary of certain significant regulatory developments and proceedings relevant to our business and our industry. This summary is not intended to be a comprehensive legal analysis or description of all of the specific issues described. Although we have indicated where we do not currently expect the outcome of a development or proceeding to be material to us, there can be no assurance that the expected outcome will occur or that our current assessment of its likely impact on us will be accurate. See Section 10.2 Regulatory matters of our 2018 annual MD&A.

Radiocommunication licences and spectrum-related matters

ISED regulates, among other matters, the allocation and use of radio spectrum in Canada and licences radio apparatus, frequency bands and/or radio channels within various frequency bands to service providers and private users. The department also establishes the terms and conditions attaching to such radio authorizations, including restrictions on licence transfers, coverage obligations, research and development obligations, annual reporting, and obligations concerning mandated roaming and antenna site sharing with competitors.

Repurposing the 3500 MHz spectrum to support 5G

On June 6, 2018, ISED released its Consultation on Revisions to the 3500 MHz Band to Accommodate Flexible Use and Preliminary Consultation on Changes to the 3800 MHz Band, proposing to claw back 56 to 66% of the band from fixed wireless incumbents (predominantly Inukshuk, which is a joint venture owned by Bell and Rogers, and Xplornet) and to auction the amount clawed back in 2020. On June 5, 2019, ISED released its Decision on Revisions to the 3500 MHz Band to Accommodate Flexible Use and Preliminary Decisions on Changes to the 3800 MHz Band and its Consultation on a Policy and Licensing Framework for Spectrum in the 3500 MHz Band to define a licensing framework (i.e. auction rules and conditions of licence) for the 3500 MHz band. Although the transition decision, by way of a clawback, ensures a portion on the band is available for auction in all markets, there is a risk that the auction rules will favour certain carriers over us and impact our ability to acquire 3500 MHz band spectrum.

Repurposing mmWave spectrum to support 5G

On June 5, 2017, ISED issued a Consultation on Releasing Millimetre Wave Spectrum to Support 5G, proposing to release 3.25 GHz of millimetre wave (mmWave) spectrum for licensed use and 7 GHz for licence-exempt use largely in line with recent U.S. mmWave developments. On June 6, 2018, ISED released an Addendum to the Consultation on Releasing Millimetre Wave Spectrum to Support 5G, proposing to release an additional 1 GHz of spectrum in the 26.5 – 27.5 GHz range. On June 5, 2019, ISED released its Decision on Releasing Millimetre Wave Spectrum to Support 5G, repurposing several tranches of mmWave spectrum for mobile use. ISED will consult on a licensing framework (i.e. auction rules and conditions of licence) for these mmWave bands in the future and targets auctioning this spectrum in 2021. There is a risk that the auction rules will favour certain carriers over us and impact our ability to acquire an adequate quantity of mmWave band spectrum.

Regulatory and federal government reviews

The CRTC and the federal government have initiated public proceedings to review various matters. They are discussed below.

Review of mobile wireless services

On February 28, 2019, the CRTC released its anticipated consultation to review the regulatory framework for wireless services. The review will examine three major issues – the level of competition in the retail market, the current wholesale mobile wireless service regulatory framework, with a focus on wholesale mobile virtual network operator (MVNO) access, and the future of mobile wireless services in Canada, with a focus on reducing barriers to infrastructure deployment. The CRTC also provided a preliminary view that there should be more opportunity for MVNOs. We have intervened in this proceeding and filed evidence to demonstrate the high performance of Canadian wireless services on dimensions including network coverage, network quality, availability of service and pricing. We will participate in all stages of this
proceeding, which will take place over the remainder of 2019 and into 2020. The impact of this proceeding on us will not be known until a decision is issued by the CRTC. That decision is not expected until mid-2020, at the earliest.

**Wireline wholesale services follow-up**

On July 22, 2015, the CRTC released *Review of wholesale wireline services and associated policies, Telecom Regulatory Policy CRTC 2015-326* (TRP 2015-326). The major component of this decision was that the CRTC ordered the introduction of a disaggregated wholesale high-speed Internet access service for Internet service provider (ISP) competitors. This includes access to fibre-to-the-premises (FTTP) facilities. This requirement is being phased in geographically beginning in the largest markets in Ontario and Quebec (i.e. in the serving territories of Bell, Cogeco, Rogers and Videotron). The CRTC initiated a follow-up proceeding to determine the technical configurations, appropriate costs and wholesale cost-based rates in those regions. The FTTP follow-up activities directed in TRP 2015-326 remain ongoing. For the second phase, which involves FTTP wholesale services for the rest of Canada (including our serving territories), a proceeding on technical configurations for disaggregated wholesale services commenced in 2017 and the associated cost study and tariff review will follow.

The timing of the implementation of disaggregated wholesale services may also be affected by an application to the CRTC filed by the Canadian Network Operators Consortium Inc. (CNOC) to review and vary TRP 2015-326 and to seek, among other things, interim relief removing a speed cap pursuant to which the existing aggregated wholesale access regime will not apply to speeds in excess of 100 Mbps pending the introduction of disaggregated service; and permanent relief granting wholesale access to FTTP facilities on an aggregated basis. On March 20, 2019, the CRTC granted CNOC’s application for interim relief. We have been granted leave to appeal that decision to the Federal Court of Appeal, with a decision expected in 2020. The CRTC’s decision with respect to the permanent relief sought by CNOC, remains under reserve. We anticipate no material adverse impact in the short term with respect to CNOC’s application for interim relief. Given the phased implementation of the mandated provision of wholesale access to our FTTP network, it is too early to determine what impact *Telecom Regulatory Policy 2015-326* will have on us in the longer term.

On August 15, 2019, the CRTC released Telecom Order 2019-288, which finalized rates for aggregated wholesale Internet services of the incumbent local exchange carriers (ILEC) and incumbent cable companies. The final rates were considerably lower than the interim rates and the CRTC ordered the rates to apply retroactively to October 6, 2016. The financial impact of this decision was not material to us given the volume of wholesale Internet customers we currently serve. On September 13, 2019, Bell Canada and affiliated companies and a collection of cable companies filed separate applications with the Federal Court of Appeal to seek leave to appeal Telecom Order 2019-288. The cable companies also sought a stay of Telecom Order 2019-288. We do not expect the outcome of these applications to have a material impact on us.

**Follow-up proceedings further to the CRTC report on sales practices of large telecommunications carriers**

On February 20, 2019, the CRTC released its *Report on Aggressive or Misleading Communications Retail Sales Practices*. The CRTC published this report further to a proceeding it commenced, at the direction of the Governor in Council, to examine claims of aggressive or misleading sales practices concerning telecommunications services, the prevalence and impact on consumers, and potential solutions. While the report itself is not a legally binding direction or order, it does note that the CRTC may commence certain follow-up proceedings and activities, including, but not limited to, a new secret shopper program, enhanced consumer information tools and complaints disclosure, and a proceeding to determine whether mandatory compliance measures and enhanced public reporting measures should be imposed on providers that fall below a threshold of acceptable behaviour. Until the CRTC releases greater details on its follow-up activities, we are unable to determine any new potential impacts on us.

**Phase-out of the local service subsidy regime**

On June 26, 2018, the CRTC issued *Phase-out of the local service subsidy regime, Telecom Regulatory Policy CRTC 2018-213*. In this decision, the CRTC determined that it would phase out the existing local service subsidy over three years, from January 1, 2019 to December 31, 2021. In September 2018, the Independent Telecommunications Providers Association (ITPA), which represents small ILECs, brought an application to the CRTC to review and vary this decision. In its application, the ITPA seeks to keep the existing local service subsidy regime in place. The record of this proceeding is now closed with a decision anticipated later this year. If upheld, the impact of this decision is not expected to be material.

**Review of the price cap and local forbearance regimes**

Simultaneously with the release of the *Phase-out of the local service subsidy regime* decision noted above, the CRTC issued *Review of the price cap and local forbearance regimes, Telecom Notice of Consultation CRTC 2018-214*. In this proceeding, the CRTC is reviewing, among other things: pricing constraints for residential local exchange services; whether compensation to ILECs is required given that the local service subsidy is being eliminated further to the *Phase-out of the local service subsidy regime* decision; whether there is still a need for an exogenous factor mechanism in the
price cap regimes; and whether changes are necessary to test for local forbearance. Final submissions were filed on March 22, 2019, with a decision anticipated later this year. The impact of this decision is unknown at this time.

**Potential for new security legislation**
In the federal budget released March 19, 2019, the government announced its intention to propose new legislation and make necessary amendments to existing federal legislation in order to introduce a new critical cyber systems framework. The degree, if any, to which this could affect us is unknown at this point and it is too early to conclusively determine any potential impact on us.

**U.S. security developments**
On May 16, 2019, U.S. President Donald Trump signed an executive order permitting the Secretary of Commerce to block certain technology transactions deemed to constitute national security risks. Additionally, the Bureau of Industry and Security of the United States Department of Commerce (the BIS) amended the U.S. Export Administration Regulations to add Huawei Technologies Co. Ltd. and its non-U.S. affiliates (collectively, Huawei) to the BIS’ Entity List, which resulted in the imposition of additional licence requirements (the Restrictions) on the export, re-export and transfer of goods, services and technology to Huawei by persons subject to the Restrictions. Subsequently, on May 20, 2019, the BIS adopted a final rule creating a 90-day temporary general licence partially restoring the BIS’ former licensing requirements for exports, re-exports and transfer to Huawei in connection with certain transactions, including in connection with the continued operation of existing networks and equipment and the provision of support to existing handsets. Given the range of potential government or regulatory actions by the U.S. government with respect to Huawei, the impact on ourselves, and on Canadian wireless service providers generally, cannot currently be predicted.

The U.S. government has decided to extend the temporary general licence through November 18, 2019. In order to implement this decision, this final rule revises the temporary general licence to remove the expiration date of August 19, 2019, and substitutes the date of November 18, 2019. This final rule also makes certain clarifying changes to the authorized transactions under the temporary general licence to improve public understanding. Lastly, this final rule revises the temporary general licence by changing which party to the transaction is required to create the certification statement by requiring that the exporter, re-exporter, or transferor obtain a certification statement from the pertinent Huawei-listed entity prior to using the temporary general license.

**CRTC proceeding regarding device financing**
On August 30, 2019, the CRTC commenced a proceeding to inquire into device financing plans for wireless handsets and asked certain parties, including ourselves, to show cause why their device financing plans are permitted under the Wireless Code. This proceeding follows on the introduction of device financing plans by ourselves, Rogers and Bell in July 2019, including, for Rogers and ourselves, plans with terms longer than 36 months. Under these plans, customers who cancel wireless services contracts are required to repay immediately the outstanding financing balance in full. On August 2, 2019, the CRTC issued a letter stating that wireless service providers were to stop offering device financing plans beyond 24 months so it could review the practice. Among other issues, the CRTC will examine the effects on consumers of financing plans beyond 24 months and how the provisions of the Wireless Code apply to device financing. We have intervened to inform the CRTC that: device financing is desired by customers; customers benefit from longer financing periods because upfront device costs are lower and the cost of devices can be spread over a longer period thereby reducing the monthly cost; the objective of the Wireless Code should be to benefit customers; and longer device financing periods further the federal government’s affordability agenda for wireless services. Until the CRTC issues a decision on its intended treatment of financing plans, it is too early to determine the impact of this proceeding on us.

**October 2019 federal election**
Affordability of wireless was a campaign topic during the October 2019 federal election. If the newly elected government introduces any new and related measures, we would assess for any potential impact at that time.

**Broadcasting-related issues**

**Broadcasting licences held by TELUS**
Our regional licences to operate broadcasting distribution undertakings in B.C. and Alberta were granted renewals in Broadcasting Decision CRTC 2018-267, which extend the licence terms to August 31, 2023. Our licence to operate a regional broadcasting distribution undertaking in areas of Quebec was renewed on June 28, 2019 in Broadcasting Decision CRTC 2019-230, extending its licence terms to August 31, 2024. Our licence to operate a national video-on-demand service was renewed to August 31, 2023, as part of Broadcasting Decision CRTC 2018-20.

**Review of the Telecommunications Act, the Radiocommunication Act and the Broadcasting Act**
On June 5, 2018, the federal government announced a joint review of Canada’s telecommunications and broadcasting legislation to be conducted by a panel of seven experts, which will have until January 31, 2020 to provide its final recommendations. Written submissions in response to the panel’s call for comments were filed on January 11, 2019. On
June 26, 2019, the panel released an interim What We Heard Report, which provided a summary of the input it has received from industry and other stakeholders. The interim report did not include any formal recommendations from the panel, which will be provided in the panel’s final report. At this time, we do not know the impact of the review and any resulting legislative amendments.

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**Review of the Copyright Act and Copyright Board reforms**

The Copyright Act’s statutorily mandated five-year review was due in 2017 and a process for conducting the review via parliamentary committee was announced in December 2017. The Standing Committee on Industry, Science and Technology (INDU Committee), with the assistance of the Standing Committee on Canadian Heritage, completed the review early in 2019, and both committees presented reports to the House of Commons in May/June of 2019. Although the INDU committee had requested a comprehensive government response be tabled by September 1, 2019, the government did not respond. Following the October 2019 federal election, the time line for potential changes to the Copyright Act is therefore uncertain. The policy approach for copyright has traditionally been based on a balance of interests of creators and consumers, and as a result, any changes to the Copyright Act are not expected to have a negative material impact on us.

10. **Risks and risk management**

The principal risks and uncertainties that could affect our future business results and associated risk mitigation activities were described in our 2018 annual MD&A and have not materially changed since December 31, 2018. Reference is made as well to the summary of risks and uncertainties in the *Caution regarding forward-looking statements* at the beginning of this MD&A.

11. **Definitions and reconciliations**

**11.1 Non-GAAP and other financial measures**

We have issued guidance on and report certain non-GAAP measures that are used to evaluate the performance of TELUS, as well as to determine compliance with debt covenants and to manage our capital structure. As non-GAAP measures generally do not have a standardized meaning, they may not be comparable to similar measures presented by other issuers. Securities regulations require such measures to be clearly defined, qualified and reconciled with their nearest GAAP measure.

**Adjusted Net income and adjusted basic earnings per share:** These measures are used to evaluate performance at a consolidated level and exclude items that may obscure the underlying trends in business performance. These measures should not be considered alternatives to Net income and basic earnings per share in measuring TELUS’ performance. Items that may, in management’s view, obscure the underlying trends in business performance include significant gains or losses associated with real estate development partnerships, gains on exchange of wireless spectrum licences, restructuring and other costs, long-term debt prepayment premiums (when applicable), income tax-related adjustments, asset retirements related to restructuring activities and gains arising from business combinations. (See *Reconciliation of adjusted Net income* and *Reconciliation of adjusted basic EPS* in Section 1.3.)

**Capital intensity:** This measure is calculated as capital expenditures (excluding spectrum licences) divided by total operating revenues. This measure provides a basis for comparing the level of capital expenditures to those of other companies of varying size within the same industry.

**Dividend payout ratio:** This is a historical measure calculated as the sum of the last four quarterly dividends declared per Common Share, as reported in the financial statements, divided by the sum of basic earnings per share for the most recent four quarters for interim reporting periods. For fiscal years, the denominator is annual basic earnings per share. Our objective range for the annual dividend payout ratio is on a prospective basis, rather than on a trailing basis. (See *Section 7.5 Liquidity and capital resource measures*.)
Calculation of Dividend payout ratio

<table>
<thead>
<tr>
<th>12-month periods ended September 30 ($)</th>
<th>2019</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Numerator – Sum of the last four quarterly dividends declared per Common Share</td>
<td>2.2150</td>
<td>2.06</td>
</tr>
<tr>
<td>Denominator – Net income per Common Share</td>
<td>2.88</td>
<td>2.68</td>
</tr>
<tr>
<td>Ratio (%)</td>
<td>77</td>
<td>77</td>
</tr>
</tbody>
</table>

Dividend payout ratio of adjusted net earnings: This ratio is a historical measure calculated as the sum of the last four quarterly dividends declared per Common Share, as reported in the financial statements, divided by adjusted net earnings per share. Adjusted net earnings per share is basic earnings per share, as used in the Dividend payout ratio, adjusted to exclude the gain on the exchange of wireless spectrum licences, gains and equity income related to real estate joint ventures, provisions related to business combinations, long-term debt prepayment premium (when applicable) and income tax-related adjustments.

Calculation of Dividend payout ratio of adjusted net earnings

<table>
<thead>
<tr>
<th>12-month periods ended September 30 ($)</th>
<th>2019</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Numerator – Sum of the last four quarterly dividends declared per Common Share</td>
<td>2.2150</td>
<td>2.06</td>
</tr>
<tr>
<td>Adjusted net earnings ($ millions):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Net income attributable to Common Shares</td>
<td>1,735</td>
<td>1,596</td>
</tr>
<tr>
<td>Deduct non-recurring gains and equity income related to real estate joint ventures, after income taxes</td>
<td>—</td>
<td>(149)</td>
</tr>
<tr>
<td>Provisions related to business combinations, after income taxes</td>
<td>(17)</td>
<td>(22)</td>
</tr>
<tr>
<td>(Deduct net favourable) add net unfavourable income tax-related adjustments</td>
<td>(143)</td>
<td>20</td>
</tr>
<tr>
<td>Add long-term debt prepayment premium, after income taxes</td>
<td>20</td>
<td>25</td>
</tr>
<tr>
<td>Add initial and committed donation to TELUS Friendly Future Foundation, after income taxes</td>
<td>—</td>
<td>90</td>
</tr>
<tr>
<td></td>
<td>1,595</td>
<td>1,560</td>
</tr>
<tr>
<td>Denominator – Adjusted net earnings per Common Share</td>
<td>2.65</td>
<td>2.62</td>
</tr>
<tr>
<td>Adjusted ratio (%)</td>
<td>84</td>
<td>79</td>
</tr>
</tbody>
</table>

Earnings coverage: This measure is defined in the Canadian Securities Administrators’ National Instrument 41-101 and related instruments, and is calculated as follows:

Calculation of Earnings coverage

<table>
<thead>
<tr>
<th>12-month periods ended September 30 ($ millions, except ratio)</th>
<th>2019</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Net income attributable to Common Shares</td>
<td>1,735</td>
<td>1,596</td>
</tr>
<tr>
<td>Income taxes (attributable to Common Shares)</td>
<td>443</td>
<td>580</td>
</tr>
<tr>
<td>Borrowing costs (attributable to Common Shares)</td>
<td>697</td>
<td>624</td>
</tr>
<tr>
<td>Numerator</td>
<td>2,875</td>
<td>2,800</td>
</tr>
<tr>
<td>Denominator – Borrowing costs</td>
<td>697</td>
<td>624</td>
</tr>
<tr>
<td>Ratio (times)</td>
<td>4.1</td>
<td>4.5</td>
</tr>
</tbody>
</table>

1 Interest on Long-term debt plus Interest on short-term borrowings and other plus long-term debt prepayment premium, adding back capitalized interest and deducting borrowing costs attributable to non-controlling interests.

EBITDA (earnings before interest, income taxes, depreciation and amortization): We have issued guidance on and report EBITDA because it is a key measure used to evaluate performance at a consolidated level. EBITDA is commonly reported and widely used by investors and lending institutions as an indicator of a company’s operating performance and ability to incur and service debt, and as a valuation metric. EBITDA should not be considered an alternative to Net income in measuring TELUS’ performance, nor should it be used as a measure of cash flow. EBITDA as calculated by TELUS is equivalent to Operating revenues less the total of Goods and services purchased expense and Employee benefits expense.

We calculate EBITDA – excluding restructuring and other costs, as it is a component of the EBITDA – excluding restructuring and other costs interest coverage ratio and the Net debt to EBITDA – excluding restructuring and other costs ratio.

We also calculate Adjusted EBITDA to exclude items of an unusual nature that do not reflect our ongoing operations and should not, in our opinion, be considered in a long-term valuation metric or should not be included in an assessment of our ability to service or incur debt.
### EBITDA reconciliation

<table>
<thead>
<tr>
<th>($ millions)</th>
<th>Third quarters ended September 30</th>
<th>Nine-month periods ended September 30</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2019</td>
<td>2018</td>
</tr>
<tr>
<td><strong>Net income</strong></td>
<td>440</td>
<td>447</td>
</tr>
<tr>
<td><strong>Financing costs</strong></td>
<td>201</td>
<td>196</td>
</tr>
<tr>
<td><strong>Income taxes</strong></td>
<td>144</td>
<td>134</td>
</tr>
<tr>
<td><strong>Depreciation</strong></td>
<td>489</td>
<td>419</td>
</tr>
<tr>
<td><strong>Amortization of intangible assets</strong></td>
<td>160</td>
<td>153</td>
</tr>
<tr>
<td><strong>EBITDA</strong></td>
<td>1,434</td>
<td>1,349</td>
</tr>
<tr>
<td><strong>Add restructuring and other costs included in EBITDA</strong></td>
<td>29</td>
<td>173</td>
</tr>
<tr>
<td><strong>EBITDA – excluding restructuring and other costs</strong></td>
<td>1,463</td>
<td>1,522</td>
</tr>
<tr>
<td><strong>Deduct non-recurring gains and equity income related to real estate joint ventures</strong></td>
<td>—</td>
<td>(171)</td>
</tr>
<tr>
<td><strong>Adjusted EBITDA</strong></td>
<td>1,463</td>
<td>1,351</td>
</tr>
</tbody>
</table>

---

### EBITDA – excluding restructuring and other costs interest coverage:

This measure is defined as EBITDA – excluding restructuring and other costs, divided by Net interest cost, calculated on a 12-month trailing basis. This measure is similar to the coverage ratio covenant in our credit facilities, as described in Section 7.6 Credit facilities.

### Free cash flow:

We report this measure as a supplementary indicator of our operating performance. It should not be considered an alternative to the measures in the condensed interim consolidated statements of cash flows. Free cash flow excludes certain working capital changes (such as trade receivables and trade payables), proceeds from divested assets and other sources and uses of cash, as found in the condensed interim consolidated statements of cash flows. It provides an indication of how much cash generated by operations is available after capital expenditures (excluding purchases of spectrum licences) that may be used to, among other things, pay dividends, repay debt, purchase shares or make other investments. We exclude impacts of accounting changes that do not impact cash, such as IFRS 15 and IFRS 16. Free cash flow may be supplemented from time to time by proceeds from divested assets or financing activities.

### Free cash flow calculation

<table>
<thead>
<tr>
<th>($ millions)</th>
<th>Third quarters ended September 30</th>
<th>Nine-month periods ended September 30</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2019</td>
<td>2018</td>
</tr>
<tr>
<td><strong>EBITDA</strong></td>
<td>1,434</td>
<td>1,349</td>
</tr>
<tr>
<td><strong>Deduct non-cash gains from the sale of property, plant and equipment</strong></td>
<td>(3)</td>
<td>(3)</td>
</tr>
<tr>
<td><strong>Restructuring and other costs, net of disbursements</strong></td>
<td>(3)</td>
<td>42</td>
</tr>
<tr>
<td><strong>Effects of contract asset, acquisition and fulfilment (IFRS 15 impact) and TELUS Easy Payment device financing</strong></td>
<td>(31)</td>
<td>(56)</td>
</tr>
<tr>
<td><strong>Effects of lease principal (IFRS 16 impact)</strong></td>
<td>(62)</td>
<td>—</td>
</tr>
<tr>
<td><strong>Leases formerly accounted for as finance leases (IFRS 16 impact)</strong></td>
<td>13</td>
<td>—</td>
</tr>
<tr>
<td><strong>Deduct non-recurring gains and equity income related to real estate joint ventures</strong></td>
<td>—</td>
<td>(171)</td>
</tr>
<tr>
<td><strong>Donation to TELUS Friendly Future Foundation in TELUS Common Shares</strong></td>
<td>—</td>
<td>100</td>
</tr>
<tr>
<td><strong>Items from the condensed interim consolidated statements of cash flows:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Share-based compensation, net</strong></td>
<td>14</td>
<td>34</td>
</tr>
<tr>
<td><strong>Net employee defined benefit plans expense</strong></td>
<td>20</td>
<td>24</td>
</tr>
<tr>
<td><strong>Employer contributions to employee defined benefit plans</strong></td>
<td>(11)</td>
<td>(9)</td>
</tr>
<tr>
<td><strong>Interest paid</strong></td>
<td>(208)</td>
<td>(198)</td>
</tr>
<tr>
<td><strong>Interest received</strong></td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td><strong>Capital expenditures (excluding spectrum licences)</strong></td>
<td>(748)</td>
<td>(762)</td>
</tr>
<tr>
<td><strong>Free cash flow before income taxes</strong></td>
<td>417</td>
<td>352</td>
</tr>
<tr>
<td><strong>Income taxes paid, net of refunds</strong></td>
<td>(97)</td>
<td>(49)</td>
</tr>
<tr>
<td><strong>Free cash flow</strong></td>
<td>320</td>
<td>303</td>
</tr>
</tbody>
</table>

---

1 Includes $17 million interest paid on lease liabilities in the third quarter ended September 30, 2019, and $48 million interest paid on lease liabilities in the nine-month period ended September 30, 2019.

2 Refer to Note 31 of the interim consolidated financial statements for further information.
The following reconciles our definition of free cash flow with cash provided by operating activities.

<table>
<thead>
<tr>
<th>Free cash flow reconciliation with Cash provided by operating activities</th>
<th>Third quarters ended September 30</th>
<th>Nine-month periods ended September 30</th>
</tr>
</thead>
<tbody>
<tr>
<td>($ millions)</td>
<td>2019</td>
<td>2018</td>
</tr>
<tr>
<td>Free cash flow</td>
<td>320</td>
<td>303</td>
</tr>
<tr>
<td>Add (deduct):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Capital expenditures (excluding spectrum licences)</td>
<td>774</td>
<td>762</td>
</tr>
<tr>
<td>Adjustments to reconcile to Cash provided by operating activities</td>
<td>80</td>
<td>1</td>
</tr>
<tr>
<td>Cash provided by operating activities</td>
<td>1,148</td>
<td>1,066</td>
</tr>
</tbody>
</table>

**Net debt**: We believe that net debt is a useful measure because it represents the amount of Short-term borrowings and long-term debt obligations that are not covered by available Cash and temporary investments. The nearest IFRS measure to net debt is Long-term debt, including Current maturities of Long-term debt. Net debt is a component of the Net debt to EBITDA – excluding restructuring and other costs ratio.

**Calculation of Net debt**

<table>
<thead>
<tr>
<th>As at September 30 ($ millions)</th>
<th>2019</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Long-term debt including current maturities</td>
<td>17,196</td>
<td>13,883</td>
</tr>
<tr>
<td>Debt issuance costs netted against long-term debt</td>
<td>108</td>
<td>92</td>
</tr>
<tr>
<td>Derivative liabilities, net</td>
<td>(98)</td>
<td>95</td>
</tr>
<tr>
<td>Accumulated other comprehensive income amounts arising from financial instruments used to manage interest rate and currency risks associated with U.S. dollar-denominated long-term debt (excluding tax effects)</td>
<td>92</td>
<td>(51)</td>
</tr>
<tr>
<td>Cash and temporary investments, net</td>
<td>(370)</td>
<td>(433)</td>
</tr>
<tr>
<td>Short-term borrowings</td>
<td>101</td>
<td>112</td>
</tr>
<tr>
<td><strong>Net debt</strong></td>
<td>17,029</td>
<td>13,698</td>
</tr>
</tbody>
</table>

**Net debt to EBITDA – excluding restructuring and other costs**: This measure is defined as net debt at the end of the period divided by 12-month trailing EBITDA – excluding restructuring and other costs. (See discussion in Section 7.5 Liquidty and capital resource measures.) This measure is similar to the leverage ratio covenant in our credit facilities, as described in Section 7.6 Credit facilities.

**Net interest cost**: This measure is the denominator in the calculation of EBITDA – excluding restructuring and other costs interest coverage. Net interest cost is defined as financing costs, excluding capitalized long-term debt interest, employee defined benefit plans net interest and recoveries on redemption and repayment of debt, calculated on a 12-month trailing basis. Expenses recorded for the long-term debt prepayment premium, if any, are included in net interest cost. Net interest cost was $723 million in the 12-month period ended September 30, 2019, and $633 million in the 12-month period ended September 30, 2018; currently, this reflects interest on lease liabilities only for the nine-month period ended September 30, 2019, due to the IFRS 16 transition methodology.

**Restructuring and other costs**: With the objective of reducing ongoing costs, we incur associated incremental, non-recurring restructuring costs. We may also incur atypical charges, which are included in other costs, when undertaking major or transformational changes to our business or operating models or post-acquisition business integration. In other costs, we include incremental atypical external costs incurred in connection with business acquisition or disposition activity, as well as significant litigation costs, in the context of losses or settlements, and adverse retrospective regulatory decisions.

<table>
<thead>
<tr>
<th>Components of restructuring and other costs</th>
<th>Third quarters ended September 30</th>
<th>Nine-month periods ended September 30</th>
</tr>
</thead>
<tbody>
<tr>
<td>($ millions)</td>
<td>2019</td>
<td>2018</td>
</tr>
<tr>
<td>Goods and services purchased</td>
<td>17</td>
<td>141</td>
</tr>
<tr>
<td>Employee benefits expense</td>
<td>12</td>
<td>32</td>
</tr>
<tr>
<td><strong>Restructuring and other costs included in EBITDA</strong></td>
<td>29</td>
<td>173</td>
</tr>
</tbody>
</table>
11.2 Operating indicators

As a result of our subscriber definition changes effective the first quarter 2019, certain subscribers were moved from the mobile phones subscriber base to the newly created mobile connected devices subscriber base. Specifically, data-centric devices intended for limited or no cellular voice capabilities (such as tablets, Internet keys, connected cars and wearables) were moved to the mobile connected devices subscriber base in alignment with the revised definitions. Our newly created mobile connected devices subscriber base combines these data-centric devices moved from mobile phone subscribers with previously undisclosed Internet of Things and mobile health subscribers.

The following measures are industry metrics that are useful in assessing the operating performance of a wireless and wireline telecommunications entity, but do not have a standardized meaning under IFRS-IASB.

Mobile phone average billing per subscriber per month (ABPU) is calculated as network revenue derived from monthly service plan, roaming and usage charges, as well as monthly re-payments of the outstanding device balance owing from customers on contract; divided by the average number of mobile phone subscribers on the network during the period and is expressed as a rate per month.

Mobile phone average revenue per subscriber per month (ARPU) is calculated as network revenue derived from monthly service plan, roaming and usage charges; divided by the average number of mobile phone subscribers on the network during the period and is expressed as a rate per month.

Churn is calculated as the number of subscribers deactivated during a given period divided by the average number of subscribers on the network during the period, and is expressed as a rate per month. Mobile phone churn refers to the aggregate average of both prepaid and postpaid mobile phone churn. A TELUS, Koodo or Public Mobile brand prepaid mobile phone subscriber is deactivated when the subscriber has no usage for 90 days following expiry of the prepaid credits.

Mobile connected device subscriber means a TELUS subscriber on an active service plan with a recurring revenue-generating portable unit (e.g. tablets, Internet keys, Internet of Things, wearables, connected cars) that is connected to the TELUS network and is intended for limited or no cellular voice capability.

Mobile phone subscriber means a TELUS subscriber on an active service plan with a recurring revenue-generating portable unit (e.g. feature phones, smartphones) that is connected to the TELUS network and provides voice, text and/or data connectivity.

Internet subscriber means a TELUS subscriber on an active Internet plan with a recurring revenue-generating fixed unit that is connected to the TELUS network and provides Internet connectivity.

Residential Voice subscriber means a TELUS subscriber on an active phone plan with a recurring revenue-generating fixed unit that is connected to the TELUS network and provides voice service.

Security subscriber means a TELUS subscriber on an active security plan with a recurring revenue-generating fixed unit that is connected to the TELUS security and automation platform.

TV subscriber means a TELUS subscriber on an active TV plan with a recurring revenue-generating fixed unit subscription for video services from a TELUS TV platform (e.g. Optik TV, Pik TV).
<table>
<thead>
<tr>
<th>Periods ended September 30 (millions except per share amounts)</th>
<th>Note</th>
<th>2019</th>
<th>2018</th>
<th>2019</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>OPERATING REVENUES</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Service</td>
<td></td>
<td>$3,138</td>
<td>$3,029</td>
<td>$9,244</td>
<td>$8,868</td>
</tr>
<tr>
<td>Equipment</td>
<td></td>
<td>549</td>
<td>562</td>
<td>1,519</td>
<td>1,514</td>
</tr>
<tr>
<td>Revenues arising from contracts with customers</td>
<td></td>
<td>3,687</td>
<td>3,591</td>
<td>10,763</td>
<td>10,382</td>
</tr>
<tr>
<td>Other operating income</td>
<td></td>
<td>10</td>
<td>183</td>
<td>37</td>
<td>222</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3,697</td>
<td>3,774</td>
<td>10,800</td>
<td>10,604</td>
</tr>
<tr>
<td><strong>OPERATING EXPENSES</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Goods and services purchased</td>
<td></td>
<td>1,502</td>
<td>1,685</td>
<td>4,389</td>
<td>4,584</td>
</tr>
<tr>
<td>Employee benefits expense</td>
<td></td>
<td>761</td>
<td>740</td>
<td>2,225</td>
<td>2,151</td>
</tr>
<tr>
<td>Depreciation</td>
<td></td>
<td>489</td>
<td>419</td>
<td>1,429</td>
<td>1,241</td>
</tr>
<tr>
<td>Amortization of intangible assets</td>
<td></td>
<td>160</td>
<td>153</td>
<td>470</td>
<td>440</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2,912</td>
<td>2,997</td>
<td>8,513</td>
<td>8,416</td>
</tr>
<tr>
<td><strong>OPERATING INCOME</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Financing costs</td>
<td></td>
<td>785</td>
<td>777</td>
<td>2,287</td>
<td>2,188</td>
</tr>
<tr>
<td></td>
<td></td>
<td>201</td>
<td>196</td>
<td>558</td>
<td>502</td>
</tr>
<tr>
<td><strong>INCOME BEFORE INCOME TAXES</strong></td>
<td></td>
<td>584</td>
<td>581</td>
<td>1,729</td>
<td>1,666</td>
</tr>
<tr>
<td>Income taxes</td>
<td></td>
<td>144</td>
<td>134</td>
<td>332</td>
<td>430</td>
</tr>
<tr>
<td></td>
<td></td>
<td>440</td>
<td>447</td>
<td>1,397</td>
<td>1,256</td>
</tr>
<tr>
<td><strong>NET INCOME</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>OTHER COMPREHENSIVE INCOME</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Items that may subsequently be reclassified to income</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Change in unrealized fair value of derivatives designated as</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>cash flow hedges</td>
<td></td>
<td>110</td>
<td>2</td>
<td>71</td>
<td>(27)</td>
</tr>
<tr>
<td>Foreign currency translation adjustment arising from translating</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>financial statements of foreign operations</td>
<td></td>
<td>5</td>
<td>7</td>
<td>22</td>
<td>(14)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>115</td>
<td>9</td>
<td>93</td>
<td>(41)</td>
</tr>
<tr>
<td>Items never subsequently reclassified to income</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Change in measurement of investment financial assets</td>
<td></td>
<td>4</td>
<td>(1)</td>
<td>4</td>
<td>(1)</td>
</tr>
<tr>
<td>Employee defined benefit plan re-measurements</td>
<td></td>
<td>(2)</td>
<td>(9)</td>
<td>30</td>
<td>53</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2</td>
<td>(10)</td>
<td>34</td>
<td>52</td>
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<tr>
<td></td>
<td></td>
<td>117</td>
<td>(1)</td>
<td>127</td>
<td>11</td>
</tr>
<tr>
<td><strong>COMPREHENSIVE INCOME</strong></td>
<td></td>
<td>$557</td>
<td>$446</td>
<td>$1,524</td>
<td>$1,267</td>
</tr>
<tr>
<td><strong>NET INCOME ATTRIBUTABLE TO:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Common Shares</td>
<td></td>
<td>$433</td>
<td>$443</td>
<td>$1,378</td>
<td>$1,243</td>
</tr>
<tr>
<td>Non-controlling interests</td>
<td></td>
<td>7</td>
<td>4</td>
<td>19</td>
<td>13</td>
</tr>
<tr>
<td></td>
<td></td>
<td>$440</td>
<td>$447</td>
<td>$1,397</td>
<td>$1,256</td>
</tr>
<tr>
<td><strong>COMPREHENSIVE INCOME ATTRIBUTABLE TO:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Common Shares</td>
<td></td>
<td>$548</td>
<td>$438</td>
<td>$1,497</td>
<td>$1,259</td>
</tr>
<tr>
<td>Non-controlling interests</td>
<td></td>
<td>9</td>
<td>8</td>
<td>27</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td></td>
<td>$557</td>
<td>$446</td>
<td>$1,524</td>
<td>$1,267</td>
</tr>
<tr>
<td><strong>NET INCOME PER COMMON SHARE</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Basic</td>
<td></td>
<td>$0.72</td>
<td>$0.74</td>
<td>$2.29</td>
<td>$2.09</td>
</tr>
<tr>
<td>Diluted</td>
<td></td>
<td>$0.72</td>
<td>$0.74</td>
<td>$2.29</td>
<td>$2.08</td>
</tr>
<tr>
<td><strong>TOTAL WEIGHTED AVERAGE COMMON SHARES OUTSTANDING</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Basic</td>
<td></td>
<td>602</td>
<td>597</td>
<td>601</td>
<td>596</td>
</tr>
<tr>
<td>Diluted</td>
<td></td>
<td>602</td>
<td>598</td>
<td>601</td>
<td>596</td>
</tr>
</tbody>
</table>

The accompanying notes are an integral part of these condensed interim consolidated financial statements.
## condense interim consolidated statements of financial position (unaudited)

<table>
<thead>
<tr>
<th>As at (millions)</th>
<th>Note</th>
<th>September 30, 2019</th>
<th>December 31, 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ASSETS</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Current assets</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cash and temporary investments, net</td>
<td></td>
<td>$ 370</td>
<td>$ 414</td>
</tr>
<tr>
<td>Accounts receivable</td>
<td>6(b)</td>
<td>1,835</td>
<td>1,600</td>
</tr>
<tr>
<td>Income and other taxes receivable</td>
<td></td>
<td>123</td>
<td>3</td>
</tr>
<tr>
<td>Inventories</td>
<td>1(b)</td>
<td>367</td>
<td>376</td>
</tr>
<tr>
<td>Contract assets</td>
<td>6(c)</td>
<td>795</td>
<td>860</td>
</tr>
<tr>
<td>Prepaid expenses</td>
<td>20</td>
<td>618</td>
<td>539</td>
</tr>
<tr>
<td>Current derivative assets</td>
<td>4(d)</td>
<td>7</td>
<td>49</td>
</tr>
<tr>
<td><strong>Non-current assets</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Property, plant and equipment, net</td>
<td>17</td>
<td>13,767</td>
<td>12,091</td>
</tr>
<tr>
<td>Intangible assets, net</td>
<td>18</td>
<td>12,417</td>
<td>10,934</td>
</tr>
<tr>
<td>Goodwill, net</td>
<td>18</td>
<td>4,947</td>
<td>4,747</td>
</tr>
<tr>
<td>Contract assets</td>
<td>6(c)</td>
<td>350</td>
<td>458</td>
</tr>
<tr>
<td>Other long-term assets</td>
<td>20</td>
<td>1,131</td>
<td>986</td>
</tr>
<tr>
<td><strong>Total assets</strong></td>
<td></td>
<td>4,115</td>
<td>3,841</td>
</tr>
<tr>
<td><strong>LIABILITIES AND OWNERS’ EQUITY</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Current liabilities</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Short-term borrowings</td>
<td>22</td>
<td>$ 101</td>
<td>$ 100</td>
</tr>
<tr>
<td>Accounts payable and accrued liabilities</td>
<td>23</td>
<td>2,844</td>
<td>2,570</td>
</tr>
<tr>
<td>Income and other taxes payable</td>
<td></td>
<td>53</td>
<td>218</td>
</tr>
<tr>
<td>Dividends payable</td>
<td>13</td>
<td>338</td>
<td>326</td>
</tr>
<tr>
<td>Advance billings and customer deposits</td>
<td>24</td>
<td>649</td>
<td>656</td>
</tr>
<tr>
<td>Provisions</td>
<td>25</td>
<td>93</td>
<td>129</td>
</tr>
<tr>
<td>Current maturities of long-term debt</td>
<td>26</td>
<td>1,056</td>
<td>836</td>
</tr>
<tr>
<td>Current derivative liabilities</td>
<td>4(d)</td>
<td>2</td>
<td>9</td>
</tr>
<tr>
<td><strong>Total current liabilities</strong></td>
<td></td>
<td>5,136</td>
<td>4,844</td>
</tr>
<tr>
<td><strong>Non-current liabilities</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Provisions</td>
<td>25</td>
<td>712</td>
<td>728</td>
</tr>
<tr>
<td>Long-term debt</td>
<td>26</td>
<td>16,140</td>
<td>13,265</td>
</tr>
<tr>
<td>Other long-term liabilities</td>
<td>27</td>
<td>670</td>
<td>731</td>
</tr>
<tr>
<td>Deferred income taxes</td>
<td></td>
<td>3,214</td>
<td>3,148</td>
</tr>
<tr>
<td><strong>Total liabilities</strong></td>
<td></td>
<td>20,736</td>
<td>17,872</td>
</tr>
<tr>
<td><strong>Owners’ equity</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Common equity</td>
<td>28</td>
<td>10,754</td>
<td>10,259</td>
</tr>
<tr>
<td>Non-controlling interests</td>
<td></td>
<td>101</td>
<td>82</td>
</tr>
<tr>
<td><strong>Total owners’ equity</strong></td>
<td></td>
<td>10,855</td>
<td>10,341</td>
</tr>
<tr>
<td><strong>Total liabilities and owners’ equity</strong></td>
<td></td>
<td>$ 36,727</td>
<td>$ 33,057</td>
</tr>
</tbody>
</table>

The accompanying notes are an integral part of these condensed interim consolidated financial statements.
<table>
<thead>
<tr>
<th>(millions)</th>
<th>Note</th>
<th>Equity contributed</th>
<th>Common equity</th>
<th>Accumulated other comprehensive income</th>
<th>Non-controlling interests</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Common Shares (Note 28)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Number of shares</td>
<td>Share capital</td>
<td>Contributed surplus</td>
<td>Retained earnings</td>
<td>Total</td>
</tr>
<tr>
<td>Balance as at January 1, 2018</td>
<td></td>
<td>595</td>
<td>$5,205</td>
<td>$370</td>
<td>$3,794</td>
<td>$47</td>
</tr>
<tr>
<td>Net income</td>
<td>2(c)</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>1,243</td>
<td>—</td>
</tr>
<tr>
<td>Other comprehensive income</td>
<td>11</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>53</td>
<td>(37)</td>
</tr>
<tr>
<td>Dividends</td>
<td>13</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>(100)</td>
<td>—</td>
</tr>
<tr>
<td>Dividends reinvested and optional cash payments</td>
<td>13(b), 14(c)</td>
<td>1</td>
<td>64</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Treasury shares acquired</td>
<td>(2)</td>
<td>(100)</td>
<td>—</td>
<td>—</td>
<td>(100)</td>
<td>—</td>
</tr>
<tr>
<td>Shares settled from Treasury</td>
<td>2</td>
<td>100</td>
<td>—</td>
<td>—</td>
<td>100</td>
<td>—</td>
</tr>
<tr>
<td>Share option award net-equity settlement feature</td>
<td>14(d)</td>
<td>—</td>
<td>1</td>
<td>(1)</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Issue of shares in business combination</td>
<td>2</td>
<td>98</td>
<td>—</td>
<td>—</td>
<td>98</td>
<td>—</td>
</tr>
<tr>
<td>Change in ownership interests of subsidiary</td>
<td>31(a)</td>
<td>—</td>
<td>—</td>
<td>14</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Balance as at September 30, 2018</td>
<td></td>
<td>598</td>
<td>$5,368</td>
<td>$383</td>
<td>$4,163</td>
<td>$10</td>
</tr>
<tr>
<td>Balance as at January 1, 2019</td>
<td></td>
<td>599</td>
<td>$5,390</td>
<td>$383</td>
<td>$4,474</td>
<td>$12</td>
</tr>
<tr>
<td>As previously reported</td>
<td></td>
<td>2(c)</td>
<td>—</td>
<td>—</td>
<td>(153)</td>
<td>(1)</td>
</tr>
<tr>
<td>IFRS 16, Leases transitional amount</td>
<td></td>
<td>599</td>
<td>5,390</td>
<td>383</td>
<td>4,321</td>
<td>11</td>
</tr>
<tr>
<td>As adjusted</td>
<td></td>
<td>599</td>
<td>5,390</td>
<td>383</td>
<td>4,321</td>
<td>11</td>
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<tr>
<td>Net income</td>
<td></td>
<td>11</td>
<td>—</td>
<td>—</td>
<td>1,378</td>
<td>—</td>
</tr>
<tr>
<td>Other comprehensive income</td>
<td></td>
<td>13</td>
<td>—</td>
<td>—</td>
<td>(1,006)</td>
<td>—</td>
</tr>
<tr>
<td>Dividends reinvested and optional cash payments</td>
<td>13(b), 14(c)</td>
<td>1</td>
<td>69</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Equity accounted share-based compensation</td>
<td></td>
<td>—</td>
<td>—</td>
<td>17</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Share option award net-equity settlement feature</td>
<td>14(d)</td>
<td>—</td>
<td>1</td>
<td>(1)</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Issue of shares in business combination</td>
<td>18(b)</td>
<td>2</td>
<td>72</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Balance as at September 30, 2019</td>
<td></td>
<td>602</td>
<td>$5,532</td>
<td>$399</td>
<td>$4,723</td>
<td>$100</td>
</tr>
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</table>

The accompanying notes are an integral part of these condensed interim consolidated financial statements.
### OPERATING ACTIVITIES

<table>
<thead>
<tr>
<th></th>
<th>Three months</th>
<th>Nine months</th>
</tr>
</thead>
<tbody>
<tr>
<td>Net income</td>
<td>$440</td>
<td>$447</td>
</tr>
<tr>
<td>Adjustments to reconcile net income to cash provided by operating activities:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Depreciation and amortization</td>
<td>649</td>
<td>572</td>
</tr>
<tr>
<td>Deferred income taxes</td>
<td>10</td>
<td>(9)</td>
</tr>
<tr>
<td>Share-based compensation expense, net</td>
<td>14</td>
<td>34</td>
</tr>
<tr>
<td>Net employee defined benefit plans expense</td>
<td>20</td>
<td>24</td>
</tr>
<tr>
<td>Employer contributions to employee defined benefit plans</td>
<td>(11)</td>
<td>(9)</td>
</tr>
<tr>
<td>Non-current contract assets</td>
<td>72</td>
<td>(19)</td>
</tr>
<tr>
<td>Income from equity accounted investments</td>
<td>—</td>
<td>(172)</td>
</tr>
<tr>
<td>Shares settled from Treasury</td>
<td>—</td>
<td>100</td>
</tr>
<tr>
<td>Other</td>
<td>(68)</td>
<td>15</td>
</tr>
<tr>
<td>Net change in non-cash operating working capital</td>
<td>31(a)</td>
<td>(30)</td>
</tr>
<tr>
<td>Cash provided by operating activities</td>
<td>1,148</td>
<td>1,066</td>
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</tbody>
</table>

### INVESTING ACTIVITIES

<table>
<thead>
<tr>
<th></th>
<th>Three months</th>
<th>Nine months</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash payments for capital assets, excluding spectrum licences</td>
<td>31(a)</td>
<td>(694)</td>
</tr>
<tr>
<td>Cash payments for spectrum licences</td>
<td>18(a)</td>
<td>(11)</td>
</tr>
<tr>
<td>Cash payments for acquisitions, net</td>
<td>18(b)</td>
<td>(160)</td>
</tr>
<tr>
<td>Real estate joint ventures advances</td>
<td>21(c)</td>
<td>(10)</td>
</tr>
<tr>
<td>Real estate joint venture receipts</td>
<td>21(c)</td>
<td>1</td>
</tr>
<tr>
<td>Proceeds on dispositions</td>
<td>12</td>
<td>—</td>
</tr>
<tr>
<td>Other</td>
<td>(9)</td>
<td>(2)</td>
</tr>
<tr>
<td>Cash used by investing activities</td>
<td>(871)</td>
<td>(621)</td>
</tr>
</tbody>
</table>

### FINANCING ACTIVITIES

<table>
<thead>
<tr>
<th></th>
<th>Three months</th>
<th>Nine months</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dividends paid to holders of Common Shares</td>
<td>31(b)</td>
<td>(316)</td>
</tr>
<tr>
<td>Treasury shares acquired</td>
<td>—</td>
<td>(100)</td>
</tr>
<tr>
<td>Issue (repayment) of short-term borrowings, net</td>
<td>1</td>
<td>(62)</td>
</tr>
<tr>
<td>Long-term debt issued</td>
<td>26</td>
<td>1,705</td>
</tr>
<tr>
<td>Redemptions and repayment of long-term debt</td>
<td>26</td>
<td>(1,508)</td>
</tr>
<tr>
<td>Issue of shares by subsidiary to non-controlling interests</td>
<td>31(a)</td>
<td>—</td>
</tr>
<tr>
<td>Other</td>
<td>(6)</td>
<td>1</td>
</tr>
<tr>
<td>Cash (used) provided by financing activities</td>
<td>(124)</td>
<td>(695)</td>
</tr>
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### CASH POSITION

<table>
<thead>
<tr>
<th></th>
<th>Three months</th>
<th>Nine months</th>
</tr>
</thead>
<tbody>
<tr>
<td>Increase (decrease) in cash and temporary investments, net</td>
<td>153</td>
<td>(250)</td>
</tr>
<tr>
<td>Cash and temporary investments, net, beginning of period</td>
<td>217</td>
<td>683</td>
</tr>
<tr>
<td>Cash and temporary investments, net, end of period</td>
<td>$370</td>
<td>$433</td>
</tr>
</tbody>
</table>

### SUPPLEMENTAL DISCLOSURE OF OPERATING CASH FLOWS

<table>
<thead>
<tr>
<th></th>
<th>Three months</th>
<th>Nine months</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interest paid</td>
<td>$ (208)</td>
<td>$ (198)</td>
</tr>
<tr>
<td>Interest received</td>
<td>$ 2</td>
<td>$ 2</td>
</tr>
<tr>
<td>Income taxes paid, net</td>
<td></td>
<td></td>
</tr>
<tr>
<td>In respect of comprehensive income</td>
<td>$ (97)</td>
<td>$ (49)</td>
</tr>
<tr>
<td>In respect of business acquisitions</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td></td>
<td>$ (97)</td>
<td>$ (49)</td>
</tr>
</tbody>
</table>

The accompanying notes are an integral part of these condensed interim consolidated financial statements.
TELUS Corporation is one of Canada’s largest telecommunications companies, providing a wide range of telecommunications services and products, including wireless and wireline voice and data. Data services include: Internet protocol; television; hosting, managed information technology and cloud-based services; healthcare solutions; customer care and business services; and home and business smart technology (including security).

TELUS Corporation was incorporated under the Company Act (British Columbia) on October 26, 1998, under the name BCT.TELUS Communications Inc. (BCT). On January 31, 1999, pursuant to a court-approved plan of arrangement under the Canada Business Corporations Act among BCT, BC TELECOM Inc. and the former Alberta-based TELUS Corporation (TC), BCT acquired all of the shares of BC TELECOM Inc. and TC in exchange for Common Shares and Non-Voting Shares of BCT, and BC TELECOM Inc. was dissolved. On May 3, 2000, BCT changed its name to TELUS Corporation and in February 2005, TELUS Corporation transitioned under the Business Corporations Act (British Columbia), successor to the Company Act (British Columbia). TELUS Corporation maintains its registered office at Floor 7, 510 West Georgia Street, Vancouver, British Columbia, V6B 0M3.

The terms “TELUS”, “we”, “us”, “our” or “ourselves” are used to refer to TELUS Corporation and, where the context of the narrative permits or requires, its subsidiaries.
1 condensed interim consolidated financial statements

(a) Basis of presentation
The notes presented in our condensed interim consolidated financial statements include only significant events and transactions and are not fully inclusive of all matters normally disclosed in our annual audited financial statements; thus, our interim consolidated financial statements are referred to as condensed. Our condensed interim consolidated financial statements should be read in conjunction with our audited consolidated financial statements for the year ended December 31, 2018.

Our condensed interim consolidated financial statements are expressed in Canadian dollars and follow the same accounting policies and methods of their application as set out in our consolidated financial statements for the year ended December 31, 2018, other than as set out in Note 2. The generally accepted accounting principles that we use are International Financial Reporting Standards as issued by the International Accounting Standards Board (IFRS-IASB) and Canadian generally accepted accounting principles. Our condensed interim consolidated financial statements comply with International Accounting Standard 34, Interim Financial Reporting and reflect all adjustments (which are of a normal recurring nature) that are, in our opinion, necessary for a fair statement of the results for the interim periods presented.

Our condensed interim consolidated financial statements for the three-month and nine-month periods ended September 30, 2019, were authorized by our Board of Directors for issue on November 7, 2019.

(b) Inventories
Our inventories primarily consist of wireless handsets, parts and accessories totalling $301 million at September 30, 2019 (December 31, 2018 – $320 million), and communications equipment held for resale. Costs of goods sold for the three-month and nine-month periods ended September 30, 2019, totalled $519 million (2018 – $526 million) and $1,462 million (2018 – $1,462 million), respectively.

2 accounting policy developments

(a) Initial application of standards, interpretations and amendments to standards and interpretations in the reporting period
• In January 2016, the International Accounting Standards Board released IFRS 16, Leases, which is required to be applied for years beginning on or after January 1, 2019, and which supersedes IAS 17, Leases. The International Accounting Standards Board and the Financial Accounting Standards Board of the United States worked together to modify the accounting for leases, generally by eliminating lessees’ classification of leases as either operating leases or finance leases and, for IFRS-IASB, introducing a single lessee accounting model.

The most significant effect of the new standard is the lessee’s recognition of the initial present value of unavoidable future lease payments as right-of-use lease assets and lease liabilities on the statement of financial position, including those for most leases that would previously have been accounted for as operating leases. Both leases with durations of 12 months or less and leases for low-value assets may be exempted.

The measurement of the total lease expense over the term of a lease will be unaffected by the new standard. However, the new standard will result in an acceleration of the timing of lease expense recognition for leases that would previously have been accounted for as operating leases; the International Accounting Standards Board expects that this effect may be muted by a lessee having a portfolio of leases with varying maturities and lengths of term, and we expect that we will be similarly affected. The presentation on the statement of income and other comprehensive income required by the new standard will result in the presentation of most non-executory lease expenses as depreciation of right-of-use lease assets and financing costs arising from lease liabilities, rather than as a part of goods and services purchased (executory lease expenses will remain a part of goods and services purchased); reported operating income would thus be higher under the new standard.

Relative to the results of applying the previous standard, although actual cash flows will be unaffected, the lessee’s statement of cash flows will reflect increases in cash flows from operating activities offset equally by decreases in cash flows from financing activities. This is the result of the presentation of the payments of the “principal” component of leases, which were previously accounted for as operating leases, as a cash flow use within financing activities under the new standard.
We have applied the standard retrospectively, with the cumulative effect of the initial application of the new standard recognized at the date of initial application, January 1, 2019, subject to permitted and elected practical expedients; such method of application does not result in the retrospective adjustment of amounts reported for periods prior to fiscal 2019. The nature of the transition method selected is such that the lease population as at January 1, 2019, and the discount rates determined contemporaneously, is the basis for the cumulative effects recorded as of that date.

**Implementation**

As a transitional practical expedient permitted by the new standard, we have not reassessed whether contracts are, or contained, leases as at January 1, 2019, applying the criteria of the new standard; as at January 1, 2019, only contracts that were previously identified as leases applying IAS 17, *Leases*, and IFRIC 4, *Determining whether an Arrangement contains a Lease*, are a part of the transition to the new standard. Only contracts entered into (or changed) after December 31, 2018, will be assessed for being, or containing, leases applying the criteria of the new standard.

The weighted average discount rate reflected in the lease liability recognized on transition was 4.16%. The difference between the total of the minimum lease payments set out in Note 19 of our audited consolidated financial statements for the year ended December 31, 2018, and the additions to long-term debt set out in (c) following arises because of the effect of discounting the minimum lease payments (approximately two-thirds of the difference) and because the minimum lease payments set out in Note 19 of our audited consolidated financial statements for the year ended December 31, 2018, include payments for leases that have commencement dates subsequent to December 31, 2018 (approximately one-third of the difference).

The new standard requires a number of incremental recurring disclosures, as well as setting out how those disclosures are to be made; we have made these disclosures, or incorporated them by cross-reference from other notes to the financial statements, in Note 19.

(b) **Standards, interpretations and amendments to standards not yet effective and not yet applied**

- In October 2018, the International Accounting Standards Board amended IFRS 3, *Business Combinations*, seeking to clarify whether an acquisition transaction results in the acquisition of an asset or the acquisition of a business. The amendments are effective for acquisition transactions on or after January 1, 2020, although earlier application is permitted. The amended standard has a narrower definition of a business, which could result in the recognition of fewer business combinations than under the current standard; the implication of this is that amounts which may have been recognized as goodwill in a business combination under the current standard may now be recognized as allocations to net identifiable assets acquired under the amended standard (with an associated effect in an entity’s results of operations that would differ from the effect of goodwill having been recognized). We are currently assessing the impacts and transition provisions of the amended standard; however, we expect that we will apply the standard prospectively from January 1, 2020. The effects, if any, of the amended standard on our financial performance and disclosure will be dependent on the facts and circumstances of any future acquisition transactions.
(c) Impacts of application of new standard in fiscal 2019
IFRS 16, Leases, affected our Consolidated statement of income and other comprehensive income as follows:

Periods ended September 30, 2019 (millions except per share amounts)

<table>
<thead>
<tr>
<th></th>
<th>Nine months</th>
<th>Three months</th>
<th>Excluding effects of IFRS 16</th>
<th>IFRS 16 effects</th>
<th>As currently reported</th>
<th>Excluding effects of IFRS 16</th>
<th>IFRS 16 effects</th>
<th>As currently reported</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating revenues</td>
<td>$10,798</td>
<td>$3,697</td>
<td>$6,101</td>
<td>(213)</td>
<td>4,389</td>
<td>$10,798</td>
<td>$2</td>
<td>$10,800</td>
</tr>
<tr>
<td>Operating expenses</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Goods and services purchased</td>
<td>2,934</td>
<td>(22)</td>
<td>2,912</td>
<td>(77)</td>
<td>8,513</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Depreciation</td>
<td>1,293</td>
<td>136</td>
<td>1,429</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td>Amortization of intangible assets</td>
<td>160</td>
<td>—</td>
<td>470</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating income</td>
<td>2,208</td>
<td>79</td>
<td>2,287</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Income before income taxes</td>
<td>1,698</td>
<td>31</td>
<td>1,729</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Income taxes</td>
<td>324</td>
<td>8</td>
<td>332</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Net income</td>
<td>1,374</td>
<td>23</td>
<td>1,397</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other comprehensive income</td>
<td>18</td>
<td>4</td>
<td>22</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cumulative foreign currency translation adjustment</td>
<td>5</td>
<td>—</td>
<td>5</td>
<td>—</td>
<td>105</td>
<td>—</td>
<td>105</td>
<td></td>
</tr>
</tbody>
</table>

Net income attributable to:
| Common Shares | $1,497 | $27 | $1,524 |
| Non-controlling interests | $1,354 | $24 | $1,378 |

Comprehensive income attributable to:
| Common Shares | $1,471 | $26 | $1,497 |
| Non-controlling interests | $1,397 | $23 | $1,397 |

Net income per Common Share
| Basic | $0.71 | $0.01 | $0.72 | $2.25 | $0.04 | $2.29 |
| Diluted | $0.71 | $0.01 | $0.72 | $2.25 | $0.04 | $2.29 |

IFRS 16, Leases, affected our opening January 1, 2019, Consolidated statement of financial position as follows:

As at January 1, 2019 (millions)  

<table>
<thead>
<tr>
<th>Note</th>
<th>Current assets</th>
<th>Excluding effects of IFRS 16</th>
<th>IFRS 16 effects</th>
<th>As currently reported</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Prepaid expense</td>
<td>$539</td>
<td>$12</td>
<td>$551</td>
</tr>
<tr>
<td></td>
<td>Property, plant and equipment, net</td>
<td>$12,091</td>
<td>$1,041</td>
<td>$13,132</td>
</tr>
</tbody>
</table>

Current liabilities
| Note | Accounts payable and accrued liabilities | $2,570 | $6 (8) | $2,564 |
|      | Provisions | $129 | $9 | $120 |
|      | Current maturities of long-term debt | $836 | $180 | $1,016 |

Non-current liabilities
| Note | Provisions | $728 | $48 | $680 |
|      | Long-term debt | $13,285 | $1,201 | $14,486 |
|      | Other long-term liabilities | $731 | $50 | $681 |
|      | Deferred income taxes | $3,148 | $53 | $3,095 |

Owners’ equity
| Note | Retained earnings | $4,474 | $153 | $4,321 |
|      | Accumulated other comprehensive income – cumulative foreign currency translation adjustment | $12 | $(1) | $11 |
|      | Non-controlling interests | $82 | $(8) | $74 |

September 30, 2019 | 9
3 capital structure financial policies

General
Our objective when managing capital is to maintain a flexible capital structure that optimizes the cost and availability of capital at acceptable risk.

In the management of capital and in its definition, we include common equity (excluding accumulated other comprehensive income), long-term debt (including long-term credit facilities, commercial paper backedstop by long-term credit facilities and any hedging assets or liabilities associated with long-term debt items, net of amounts recognized in accumulated other comprehensive income), cash and temporary investments, and short-term borrowings arising from securitized trade receivables.

We manage our capital structure and make adjustments to it in light of changes in economic conditions and the risk characteristics of our business. In order to maintain or adjust our capital structure, we may adjust the amount of dividends paid to holders of Common Shares, purchase Common Shares for cancellation pursuant to normal course issuer bids, issue new shares, issue new debt, issue new debt to replace existing debt with different characteristics and/or increase or decrease the amount of trade receivables sold to an arm’s-length securitization trust.

During 2019, our financial objectives, which are reviewed annually, were unchanged from 2018. We believe that our financial objectives are supportive of our long-term strategy.

We monitor capital utilizing a number of measures, including: net debt to earnings before interest, income taxes, depreciation and amortization (EBITDA) – excluding restructuring and other costs ratio; coverage ratios; and dividend payout ratios.

Debt and coverage ratios
Net debt to EBITDA – excluding restructuring and other costs is calculated as net debt at the end of the period, divided by 12-month trailing EBITDA – excluding restructuring and other costs. This measure, historically, is substantially similar to the leverage ratio covenant in our credit facilities. Net debt and EBITDA – excluding restructuring and other costs are measures that do not have any standardized meanings prescribed by IFRS-IASB and are therefore unlikely to be comparable to similar measures presented by other companies. The calculation of these measures is set out in the following table. Net debt is one component of a ratio used to determine compliance with debt covenants.

* EBITDA does not have any standardized meaning prescribed by IFRS-IASB and is therefore unlikely to be comparable to similar measures presented by other issuers; we define EBITDA as operating revenues less goods and services purchased and employee benefits expense. We have issued guidance on, and report, EBITDA because it is a key measure that management uses to evaluate the performance of our business, and it is also utilized in measuring compliance with certain debt covenants.
notes to condensed interim consolidated financial statements
(unaudited)

<table>
<thead>
<tr>
<th>Components of debt and coverage ratios</th>
<th>Objective</th>
<th>2019</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Net debt ¹</td>
<td>$17,029</td>
<td>$13,698</td>
<td></td>
</tr>
<tr>
<td>EBITDA – excluding restructuring and other costs ²</td>
<td>$5,590</td>
<td>$5,388</td>
<td></td>
</tr>
<tr>
<td>Net interest cost ³</td>
<td>$723</td>
<td>$633</td>
<td></td>
</tr>
<tr>
<td>Debt ratio</td>
<td>Net debt to EBITDA – excluding restructuring and other costs</td>
<td>2.00 – 2.50⁴</td>
<td>3.05</td>
</tr>
</tbody>
</table>

**Coverage ratios**
- Earnings coverage ⁵: 4.1, 4.5
- EBITDA – excluding restructuring and other costs interest coverage ⁶: 7.7, 8.5

1 Net debt is calculated as follows:

<table>
<thead>
<tr>
<th>As at September 30</th>
<th>Note</th>
<th>2019</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Long-term debt</td>
<td>26</td>
<td>$17,196</td>
<td>$13,883</td>
</tr>
<tr>
<td>Debt issuance costs netted against long-term debt</td>
<td></td>
<td>108</td>
<td>92</td>
</tr>
<tr>
<td>Derivative (assets) liabilities, net</td>
<td></td>
<td>(98)</td>
<td>95</td>
</tr>
<tr>
<td>Accumulated other comprehensive income amounts arising from financial instruments used to manage interest rate and currency risks associated with U.S. dollar-denominated long-term debt – excluding tax effects</td>
<td></td>
<td>92</td>
<td>(51)</td>
</tr>
<tr>
<td>Cash and temporary investments, net</td>
<td></td>
<td>(370)</td>
<td>(433)</td>
</tr>
<tr>
<td>Short-term borrowings</td>
<td>22</td>
<td>101</td>
<td>112</td>
</tr>
<tr>
<td>Net debt</td>
<td></td>
<td>$17,029</td>
<td>$13,698</td>
</tr>
</tbody>
</table>

2 EBITDA – excluding restructuring and other costs is calculated as follows:

<table>
<thead>
<tr>
<th>Add</th>
<th>EBITDA ( \text{(Note}\ 5) )</th>
<th>Restructuring and other costs ( \text{(Note}\ 16) )</th>
<th>EBITDA – excluding restructuring and other costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nine-month period ended September 30, 2019</td>
<td>$4,186</td>
<td>$94</td>
<td>$4,280</td>
</tr>
<tr>
<td>Year ended December 31, 2018</td>
<td>5,104</td>
<td>317</td>
<td>5,421</td>
</tr>
<tr>
<td>Deduct</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nine-month period ended September 30, 2018</td>
<td>(3,869)</td>
<td>(242)</td>
<td>(4,111)</td>
</tr>
<tr>
<td>EBITDA – excluding restructuring and other costs</td>
<td>$5,421</td>
<td>$169</td>
<td>$5,590</td>
</tr>
</tbody>
</table>

3 Net interest cost is defined as financing costs, excluding employee defined benefit plans net interest, recoveries on long-term debt prepayment premium and repayment of debt, calculated on a 12-month trailing basis (expenses recorded for long-term debt prepayment premium, if any, are included in net interest cost).

4 Our long-term objective range for this ratio is 2.00 – 2.50 times. The ratio as at September 30, 2019, is outside the long-term objective range. We may permit, and have permitted, this ratio to go outside the objective range (for long-term investment opportunities), but we will endeavour to return this ratio to within the objective range in the medium term (following upcoming spectrum auctions), as we believe that this range is supportive of our long-term strategy. We are in compliance with the leverage ratio covenant in our credit facilities, which states that we may not permit our net debt to operating cash flow ratio to exceed 4.00:1.00 (see Note 26(d)); the calculation of the debt ratio is substantially similar to the calculation of the leverage ratio covenant in our credit facilities.

5 Earnings coverage is defined as net income before borrowing costs and income tax expense, divided by borrowing costs (interest on long-term debt; interest on short-term borrowings and other; long-term debt prepayment premium), and adding back capitalized interest.

6 EBITDA – excluding restructuring and other costs interest coverage is defined as EBITDA – excluding restructuring and other costs, divided by net interest cost. This measure is substantially similar to the coverage ratio covenant in our credit facilities.

Net debt to EBITDA – excluding restructuring and other costs was 3.05 times as at September 30, 2019, up from 2.54 times one year earlier. The effect of the increase in net debt, largely attributed to the recognition of lease liabilities upon the application of IFRS 16 effective January 1, 2019 (see Note 2(a)), was exceeded by the effect of growth in EBITDA – excluding restructuring and other costs (including that the transition method for IFRS 16 has currently only included nine months’ effect on the trailing EBITDA); the implementation of IFRS 16 had the combined effect of increasing the ratio by approximately 0.17 as at September 30, 2019. The earnings coverage ratio for the twelve-month period ended September 30, 2019, was 4.1 times, down from 4.5 times one year earlier. Higher borrowing costs, including the recognition of interest (currently only for the nine-month period ended September 30, 2019) on lease liabilities upon the application of IFRS 16, reduced the ratio by 0.5 and an increase in income before borrowing costs and income taxes increased the ratio by 0.1. The EBITDA – excluding restructuring and other costs interest coverage ratio for the twelve-month period ended September 30, 2019, was 7.7 times, down from 8.5 times one year earlier. Growth in EBITDA – excluding restructuring and other costs increased the ratio by 0.3, while an increase in net interest costs, including the recognition of interest (currently only for the nine-month period ended September 30, 2019) on lease liabilities upon the application of IFRS 16, reduced the ratio by 1.1.

**Dividend payout ratio**

The dividend payout ratio presented is a historical measure calculated as the sum of the last four quarterly dividends declared per Common Share, as recorded in the financial statements, divided by the sum of basic earnings per share for...
the most recent four quarters for interim reporting periods (divided by annual basic earnings per share if the reported amount is in respect of a fiscal year). The dividend payout ratio of adjusted net earnings presented, also a historical measure, differs in that it excludes the gain on exchange of wireless spectrum licences, net gains and equity income from real estate joint ventures, provisions related to business combinations, long-term debt prepayment premium and income tax-related adjustments.

For the 12-month periods ended September 30 ($ in millions)  

<table>
<thead>
<tr>
<th></th>
<th>Objective</th>
<th>2019</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dividend payout ratio</td>
<td>65%–75% ¹</td>
<td>77%</td>
<td>77%</td>
</tr>
<tr>
<td>Dividend payout ratio of adjusted net earnings</td>
<td>84%</td>
<td>79%</td>
<td></td>
</tr>
</tbody>
</table>

¹ Our objective range for the dividend payout ratio is 65%–75% of sustainable earnings on a prospective basis through 2019. So as to be consistent with the way we manage our business, we have revised our target guideline, effective January 1, 2020, to be calculated as 60% to 75% of free cash flow on a prospective basis (free cash flow does not have any standardized meaning prescribed by IFRS-IASB and is therefore unlikely to be comparable to similar measures presented by other issuers). Adjusted net earnings (adjusted net earnings does not have any standardized meaning prescribed by IFRS-IASB and is therefore unlikely to be comparable to similar measures presented by other issuers) attributable to Common Shares is calculated as follows:

<table>
<thead>
<tr>
<th>12-month periods ended September 30</th>
<th>2019</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Net income attributable to Common Shares</td>
<td>$1,735</td>
<td>$1,596</td>
</tr>
<tr>
<td>Gain and net equity income related to real estate redevelopment project, after income taxes</td>
<td>—</td>
<td>$(149)</td>
</tr>
<tr>
<td>Business combination-related provisions, after income taxes</td>
<td>$(17)</td>
<td>$(22)</td>
</tr>
<tr>
<td>Income tax-related adjustments</td>
<td>$(143)</td>
<td>20</td>
</tr>
<tr>
<td>Long-term debt prepayment premium, after income taxes</td>
<td>20</td>
<td>25</td>
</tr>
<tr>
<td>Initial and committed donation to TELUS Friendly Future Foundation, after income taxes</td>
<td>—</td>
<td>90</td>
</tr>
<tr>
<td>Adjusted net earnings attributable to Common Shares</td>
<td>$1,595</td>
<td>$1,560</td>
</tr>
</tbody>
</table>

4 financial instruments

(a) Credit risk
Excluding credit risk, if any, arising from currency swaps settled on a gross basis, the best representation of our maximum exposure (excluding income tax effects) to credit risk, which is a worst-case scenario and does not reflect results we expect, is set out in the following table:

<table>
<thead>
<tr>
<th>As at (millions)</th>
<th>September 30, 2019</th>
<th>December 31, 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash and temporary investments, net</td>
<td>$3,583</td>
<td>$3,482</td>
</tr>
<tr>
<td>Accounts receivable</td>
<td>1,959</td>
<td>1,647</td>
</tr>
<tr>
<td>Contract assets</td>
<td>1,145</td>
<td>1,318</td>
</tr>
<tr>
<td>Derivative assets</td>
<td>109</td>
<td>103</td>
</tr>
</tbody>
</table>

Cash and temporary investments, net
Credit risk associated with cash and temporary investments is managed by ensuring that these financial assets are placed with: governments; major financial institutions that have been accorded strong investment grade ratings by a primary rating agency; and/or other creditworthy counterparties. An ongoing review evaluates changes in the status of counterparties.

Accounts receivable
Credit risk associated with accounts receivable is inherently managed by the size and diversity of our large customer base, which includes substantially all consumer and business sectors in Canada. We follow a program of credit evaluations of customers and limit the amount of credit extended when deemed necessary.

As at September 30, 2019, the weighted average age of billed current customer accounts receivable was 29 days (December 31, 2018 – 30 days) and the weighted average age of billed current customer accounts receivable that are more than 30 days past the billing date was 60 days (December 31, 2018 – 56 days). Accounts are considered to be past due (in default) when customers have failed to make the contractually required payments when due, which is generally within 30 days of the billing date. Any late payment charges are levied at an industry-based market or negotiated rate on outstanding non-current customer account balances.
We maintain allowances for lifetime expected credit losses related to doubtful accounts. Current economic conditions (including forward-looking macroeconomic data), historical information (including credit agency reports, if available), reasons for the accounts being past due and the line of business from which the customer accounts receivable arise are all considered when determining whether to make allowances for past-due accounts. The same factors are considered when determining whether to write off amounts charged to the allowance for doubtful accounts against the customer accounts receivable; amounts charged to the customer accounts receivable allowance for doubtful accounts that were written off but were still subject to enforcement activity as at September 30, 2019, totalled $436 million (December 31, 2018 – $353 million). The doubtful accounts expense is calculated on a specific-identification basis for customer accounts receivable above a specific balance threshold and on a statistically derived allowance basis for the remainder. No customer accounts receivable are written off directly to the doubtful accounts expense.

The following table presents a summary of the activity related to our allowance for doubtful accounts.

<table>
<thead>
<tr>
<th>Periods ended September 30 (millions)</th>
<th>Three months</th>
<th>Nine months</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2019</td>
<td>2018</td>
</tr>
<tr>
<td>Balance, beginning of period</td>
<td>$42</td>
<td>$46</td>
</tr>
<tr>
<td>Additions (doubtful accounts expense)</td>
<td>11</td>
<td>12</td>
</tr>
<tr>
<td>Accounts written off, net of recoveries</td>
<td>(16)</td>
<td>(13)</td>
</tr>
<tr>
<td>Other</td>
<td>11</td>
<td>1</td>
</tr>
<tr>
<td>Balance, end of period</td>
<td>$48</td>
<td>$46</td>
</tr>
</tbody>
</table>

**Contract assets**

Credit risk associated with contract assets is inherently managed by the size and diversity of our large customer base, which includes substantially all consumer and business sectors in Canada. We follow a program of credit evaluations of customers and limit the amount of credit extended when deemed necessary.

We maintain allowances for lifetime expected credit losses related to contract assets. Current economic conditions, historical information (including credit agency reports, if available), and the line of business from which the contract asset arose are all considered when determining impairment allowances. The same factors are considered when determining whether to write off amounts charged to the impairment allowance for contract assets against contract assets.

**Derivative assets (and derivative liabilities)**

Counterparties to our share-based compensation cash-settled equity forward agreements and foreign exchange derivatives are major financial institutions that have been accorded investment grade ratings by a primary credit rating agency. The total dollar amount of credit exposure under contracts with any one financial institution is limited and
counterparties’ credit ratings are monitored. We do not give or receive collateral on swap agreements and hedging items due to our credit rating and those of our counterparties. While we are exposed to the risk of potential credit losses due to the possible non-performance of our counterparties, we consider this risk remote. Our derivative liabilities do not have credit risk-related contingent features.

(b) Liquidity risk
As a component of our capital structure financial policies, discussed further in Note 3, we manage liquidity risk by:

- maintaining a daily cash pooling process that enables us to manage our available liquidity and our liquidity requirements according to our actual needs;
- maintaining an agreement to sell trade receivables to an arm’s-length securitization trust and bilateral bank facilities (Note 22), a commercial paper program (Note 26(c)) and syndicated credit facilities (Note 26(d), (e));
- maintaining an in-effect shelf prospectus;
- continuously monitoring forecast and actual cash flows; and
- managing maturity profiles of financial assets and financial liabilities.

Our debt maturities in future years are as disclosed in Note 26(h). As at September 30, 2019, we could offer $3.0 billion of debt or equity securities pursuant to a shelf prospectus that is in effect until August 2022 (December 31, 2018 – $2.5 billion pursuant to a shelf prospectus that was in effect until June 2020). We believe that our investment grade credit ratings contribute to reasonable access to capital markets.

We closely match the contractual maturities of our derivative financial liabilities with those of the risk exposures they are being used to manage.

The expected maturities of our undiscounted financial liabilities do not differ significantly from the contractual maturities, other than as noted below. The contractual maturities of our undiscounted financial liabilities, including interest thereon (where applicable), are set out in the following tables:

<table>
<thead>
<tr>
<th>As at September 30, 2019 (millions)</th>
<th>Non-interest bearing financial liabilities</th>
<th>Short-term borrowings</th>
<th>Construction credit facility commitment (Note 21)</th>
<th>Long-term debt, excluding leases (Note 26)</th>
<th>Leases (Notes 2(c), 26)</th>
<th>Currency swap agreement amounts to be exchanged 2</th>
<th>Derivative</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total (Note 26(h))</td>
<td>$ 25,894</td>
<td>$ 2,055</td>
<td>$ 6,443</td>
<td>$ 6,353</td>
<td>$ 5</td>
<td>$ (467)</td>
<td>$ 465</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$ 28,911</td>
</tr>
</tbody>
</table>

1 Cash outflows in respect of interest payments on our short-term borrowings, commercial paper and amounts drawn under our credit facilities (if any) have been calculated based upon the interest rates in effect as at September 30, 2019.

2 The amounts included in undiscounted non-derivative long-term debt in respect of U.S. dollar-denominated long-term debt, and the corresponding amounts in the long-term debt currency swaps receive column, have been determined based upon the currency exchange rates in effect as at September 30, 2019. The hedged U.S. dollar-denominated long-term debt contractual amounts at maturity, in effect, are reflected in the long-term debt currency swaps pay column as gross cash flows are exchanged pursuant to the currency swap agreements.
Cash outflows in respect of interest payments on our short-term borrowings, commercial paper and amounts drawn under our credit facilities (if any) have been calculated based upon the interest rates in effect as at December 31, 2018.

The amounts included in undiscounted non-derivative long-term debt in respect of U.S. dollar-denominated long-term debt, and the corresponding amounts in the long-term debt currency swaps receive column, have been determined based upon the currency exchange rates in effect as at December 31, 2018. The hedged U.S. dollar-denominated long-term debt contractual amounts at maturity, in effect, are reflected in the long-term debt currency swaps pay column as gross cash flows are exchanged pursuant to the currency swap agreements.

(c) Market risks

Net income and other comprehensive income for the nine-month periods ended September 30, 2019 and 2018, could have varied if the Canadian dollar: U.S. dollar exchange rate and our Common Share price varied by reasonably possible amounts from their actual statement of financial position date amounts.

The sensitivity analysis of our exposure to currency risk at the reporting date has been determined based upon a hypothetical change taking place at the relevant statement of financial position date. The U.S. dollar-denominated balances and derivative financial instrument notional amounts as at the statement of financial position dates have been used in the calculations.

The sensitivity analysis of our exposure to other price risk arising from share-based compensation at the reporting date has been determined based upon a hypothetical change taking place at the relevant statement of financial position date. The relevant notional number of Common Shares at the statement of financial position date, which includes those in the cash-settled equity swap agreements, has been used in the calculations.

Income tax expense, which is reflected net in the sensitivity analysis, reflects the applicable statutory income tax rates for the reporting periods.

<table>
<thead>
<tr>
<th>Nine-month periods ended September 30</th>
<th>Net income</th>
<th>Other comprehensive income</th>
<th>Comprehensive income</th>
</tr>
</thead>
<tbody>
<tr>
<td>(increase (decrease) in millions)</td>
<td>2019</td>
<td>2018</td>
<td>2019</td>
</tr>
<tr>
<td>Reasonably possible changes in market risks</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10% change in C$: US$ exchange rate</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Canadian dollar appreciates</td>
<td>$3</td>
<td>$(1)</td>
<td>$(82)</td>
</tr>
<tr>
<td>Canadian dollar depreciates</td>
<td>$(3)</td>
<td>$1</td>
<td>$82</td>
</tr>
<tr>
<td>25 basis point change in interest rates</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Interest rates increase</td>
<td>$1</td>
<td>$(2)</td>
<td>$(2)</td>
</tr>
<tr>
<td>Interest rates decrease</td>
<td>$1</td>
<td>$2</td>
<td>$3</td>
</tr>
<tr>
<td>25% change in Common Share price</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Price increases</td>
<td>$(17)</td>
<td>$(17)</td>
<td>$7</td>
</tr>
<tr>
<td>Price decreases</td>
<td>$24</td>
<td>$28</td>
<td>$(7)</td>
</tr>
</tbody>
</table>

1 These sensitivities are hypothetical and should be used with caution. Changes in net income and/or other comprehensive income generally cannot be extrapolated because the relationship of the change in assumption to the change in net income and/or other comprehensive income may not be linear. In this table, the effect of a variation in a particular assumption on the amount of net income and/or other comprehensive income is calculated without changing any other factors; in reality, changes in one factor may result in changes in another, which might magnify or counteract the sensitivities.

The sensitivity analysis assumes that we would realize the changes in exchange rates; in reality, the competitive marketplace in which we operate would have an effect on this assumption.

No consideration has been made for a difference in the notional number of Common Shares associated with share-based compensation awards made during the reporting period that may have arisen due to a difference in the Common Share price.

2 To facilitate ongoing comparison of sensitivities, a constant variance of approximate magnitude has been used. Reflecting a nine-month data period and calculated on a monthly basis, the volatility of our Common Share price as at September 30, 2019, was 8.7% (2018 – 6.7%).

3 The hypothetical effects of changes in the price of our Common Shares are restricted to those which would arise from our share-based compensation awards that are accounted for as liability instruments and the associated cash-settled equity swap agreements.
(d) Fair values

Derivative
The derivative financial instruments that we measure at fair value on a recurring basis subsequent to initial recognition are set out in the following table.

<table>
<thead>
<tr>
<th>As at (millions)</th>
<th>September 30, 2019</th>
<th></th>
<th></th>
<th></th>
<th>December 31, 2018</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Designation</td>
<td>Maximum maturity date</td>
<td>Notional amount</td>
<td>Fair value and carrying value</td>
<td>Price or rate</td>
<td>Maximum maturity date</td>
<td>Notional amount</td>
<td>Fair value and carrying value</td>
</tr>
<tr>
<td><strong>Current Assets</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Derived instruments used to manage currency risk arising from U.S. dollar-denominated purchases</td>
<td>HFH³</td>
<td>2020</td>
<td>$ 241</td>
<td>$ 2</td>
<td>US$1.00: C$1.31</td>
<td>2019</td>
<td>$ 414</td>
<td>$ 25</td>
</tr>
<tr>
<td>Currency risk arising from U.S. dollar revenues</td>
<td>HFT⁴</td>
<td>2020</td>
<td>$ 53</td>
<td>—</td>
<td>US$1.00: C$1.32</td>
<td>2019</td>
<td>$ 74</td>
<td>1</td>
</tr>
<tr>
<td>Changes in share-based compensation costs (Note 14(b))</td>
<td>HFH³</td>
<td>2019</td>
<td>$ 66</td>
<td>3</td>
<td>$ 45.53</td>
<td>2019</td>
<td>$ 63</td>
<td>2</td>
</tr>
<tr>
<td>Currency risk arising from U.S. dollar-denominated long-term debt (Note 26(b)-(c))</td>
<td>HFH³</td>
<td>2019</td>
<td>$ 483</td>
<td>2</td>
<td>US$1.00: C$1.32</td>
<td>2019</td>
<td>$ 761</td>
<td>21</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td>$ 7</td>
<td></td>
<td></td>
<td></td>
<td>$ 49</td>
<td></td>
</tr>
<tr>
<td><strong>Other Long-Term Assets</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Derived instruments used to manage changes in share-based compensation costs (Note 14(b))</td>
<td>HFH³</td>
<td>2020</td>
<td>$ 67</td>
<td>—</td>
<td>$ 48.71</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Currency risks arising from U.S. dollar-denominated long-term debt (Note 26(b)-(c))</td>
<td>HFH³</td>
<td>2048</td>
<td>$ 3,090</td>
<td>102</td>
<td>US$1.00: C$1.28</td>
<td>2048</td>
<td>$ 3,134</td>
<td>54</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td>$ 102</td>
<td></td>
<td></td>
<td></td>
<td>$ 54</td>
<td></td>
</tr>
<tr>
<td><strong>Current Liabilities</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Derived instruments used to manage currency risk arising from U.S. dollar-denominated purchases</td>
<td>HFH³</td>
<td>2020</td>
<td>$ 171</td>
<td>$ 1</td>
<td>US$1.00: C$1.33</td>
<td>2019</td>
<td>$ 11</td>
<td>$ —</td>
</tr>
<tr>
<td>Currency risk arising from U.S. dollar revenues</td>
<td>HFT⁴</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>2019</td>
<td>$ 18</td>
<td>—</td>
</tr>
<tr>
<td>Changes in share-based compensation costs (Note 14(b))</td>
<td>HFH³</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>2019</td>
<td>$ 2</td>
<td>—</td>
</tr>
<tr>
<td>Currency risk arising from U.S. dollar-denominated long-term debt (Note 26(b)-(c))</td>
<td>HFH³</td>
<td>2019</td>
<td>$ 279</td>
<td>$ 1</td>
<td>US$1.00: C$1.33</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Interest rate risk associated with non-fixed rate credit facility amounts drawn (Note 26(e))</td>
<td>HFH³</td>
<td>2022</td>
<td>$ 8</td>
<td>—</td>
<td>2.64%</td>
<td>2019</td>
<td>$ 8</td>
<td>—</td>
</tr>
<tr>
<td>Interest rate risk associated with refinancing of debt maturing</td>
<td>HFH³</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>2019</td>
<td>$ 250</td>
<td>9</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td>$ 2</td>
<td></td>
<td></td>
<td></td>
<td>$ 9</td>
<td></td>
</tr>
</tbody>
</table>
The following table sets out the gains and losses, excluding income tax effects, for the periods presented.

<table>
<thead>
<tr>
<th>Designation</th>
<th>Maximum maturity date</th>
<th>Notional amount</th>
<th>Fair value ¹ and carrying value</th>
<th>Price or rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Derivatives used to manage currency risk arising from U.S. dollar-denominated long-term debt ¹ (Note 26(b)-(c))</td>
<td>HFH ²</td>
<td>2049</td>
<td>$2,501</td>
<td>6</td>
</tr>
<tr>
<td>Interest rate risk associated with non-fixed rate credit facility amounts drawn (Note 26(b))</td>
<td>HFH ²</td>
<td>2022</td>
<td>$135</td>
<td>5</td>
</tr>
</tbody>
</table>

Notes to condensed interim consolidated financial statements (unaudited)

### Non-derivative

Our long-term debt, which is measured at amortized cost, and the fair value thereof, are set out in the following table.

<table>
<thead>
<tr>
<th>As at (millions)</th>
<th>September 30, 2019</th>
<th>December 31, 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carrying value</td>
<td>Fair value</td>
<td>Carrying value</td>
</tr>
<tr>
<td>Long-term debt, excluding leases (Note 26)</td>
<td>$15,598</td>
<td>$16,833</td>
</tr>
</tbody>
</table>

(e) Recognition of derivative gains and losses

The following table sets out the gains and losses, excluding income tax effects, arising from derivative instruments that are classified as cash flow hedging items and their location within the Consolidated statements of income and other comprehensive income.

Credit risk associated with such derivative instruments, as discussed further in (a), would be the primary source of hedge ineffectiveness. There was no ineffective portion of derivative instruments classified as cash flow hedging items for the periods presented.

<table>
<thead>
<tr>
<th>Periods ended September 30 (millions)</th>
<th>Amount of gain (loss) recognized in other comprehensive income (effective portion) (Note 11)</th>
<th>Gain (loss) reclassified from other comprehensive income to income (effective portion) (Note 11)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Note 2019</td>
<td>2018</td>
</tr>
<tr>
<td>THREE-MONTH</td>
<td>Derivatives used to manage currency risk</td>
<td>$6</td>
</tr>
<tr>
<td>Arising from U.S. dollar-denominated purchases</td>
<td>26(b)-(c)</td>
<td>190</td>
</tr>
<tr>
<td>Arising from changes in share-based compensation costs and other</td>
<td>14(b)</td>
<td>(5)</td>
</tr>
<tr>
<td></td>
<td>$191</td>
<td>$36</td>
</tr>
<tr>
<td>NINE-MONTH</td>
<td>Derivatives used to manage currency risk</td>
<td>$9</td>
</tr>
<tr>
<td>Arising from U.S. dollar-denominated purchases</td>
<td>26(b)-(c)</td>
<td>39</td>
</tr>
<tr>
<td>Arising from changes in share-based compensation costs and other</td>
<td>14(b)</td>
<td>—</td>
</tr>
<tr>
<td></td>
<td>$30</td>
<td>$40</td>
</tr>
</tbody>
</table>

Notes:

1. Amounts recognized in other comprehensive income are net of the change in the foreign currency basis spread (which is used for purposes of assessing hedge ineffectiveness) included in the fair value of the derivative instruments; such amount for the three-month and nine-month periods ended September 30, 2019, were $24 (2018 – $13) and $31 (2018 – $2), respectively.
The following table sets out the gains and losses arising from derivative instruments that are classified as held for trading and that are not designated as being in a hedging relationship, and their location within the Consolidated statements of income and other comprehensive income.

<table>
<thead>
<tr>
<th>Periods ended September 30 (millions)</th>
<th>Location</th>
<th>Gain (loss) recognized in income on derivatives</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Three months</td>
<td>2019</td>
<td>2018</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Nine months</td>
<td>2019</td>
<td>2018</td>
</tr>
<tr>
<td>Derivatives used to manage currency risk</td>
<td>Financing costs</td>
<td>$</td>
<td>(1)</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>$</td>
<td>$ (6)</td>
<td>$ 1</td>
</tr>
</tbody>
</table>

5 segment information

General
Operating segments are components of an entity that engage in business activities from which they earn revenues and incur expenses (including revenues and expenses related to transactions with the other component(s)), the operations of which can be clearly distinguished and for which the operating results are regularly reviewed by a chief operating decision-maker to make resource allocation decisions and to assess performance.

A significant judgment we make is in respect of distinguishing between our wireless and wireline operations and cash flows (and this extends to allocations of both direct and indirect expenses and capital expenditures). The clarity of such distinction has been increasingly affected by the convergence and integration of our wireless and wireline telecommunications infrastructure technology and operations. Less than one-half of the operating expenses included in the segment performance measure reported to our chief operating decision-maker are direct costs; judgment, largely based upon historical experience, is applied in apportioning indirect expenses which are not objectively distinguishable between our wireless and wireline operations. The continued build-out of our technology-agnostic fibre-optic infrastructure, in combination with converged edge network technology, has significantly affected this judgment, as has the commercialization of fixed-wireless telecommunications solutions for customers and the consolidation of our non-customer facing operations. As a result, it has become increasingly difficult and impractical to objectively and clearly distinguish between our wireless and wireline operations and cash flows, and the assets from which those cash flows arise.

As we do not currently aggregate operating segments, our reportable segments as at September 30, 2019, are also wireless and wireline. The wireless segment includes network revenues and equipment sales arising from mobile technologies. The wireline segment includes data revenues (which include Internet protocol; television; hosting, managed information technology and cloud-based services; customer care and business services; certain healthcare solutions; and home and business security), voice and other telecommunications services revenues (excluding wireless arising from mobile technologies), and equipment sales. Segmentation has been based on similarities in technology (mobile versus fixed), the technical expertise required to deliver the services and products, customer characteristics, the distribution channels used and regulatory treatment. Intersegment sales are recorded at the exchange value, which is the amount agreed to by the parties.
The segment information regularly reported to our Chief Executive Officer (our chief operating decision-maker), and the reconciliations thereof to our products and services view of revenues, other revenues and income before income taxes, are set out in the following table.

### Three-month periods ended September 30 (millions)

<table>
<thead>
<tr>
<th>Operating revenues</th>
<th>Wireless</th>
<th>Wireline</th>
<th>Eliminations</th>
<th>Consolidated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Service</td>
<td>$ 1,588</td>
<td>$ 1,555</td>
<td>$ 1,550</td>
<td>$ 1,474</td>
</tr>
<tr>
<td>Equipment</td>
<td>494</td>
<td>504</td>
<td>55</td>
<td>58</td>
</tr>
<tr>
<td>Revenues arising from contracts with customers</td>
<td>2,082</td>
<td>2,059</td>
<td>1,605</td>
<td>1,532</td>
</tr>
<tr>
<td>Other operating income</td>
<td>4</td>
<td>90</td>
<td>6</td>
<td>93</td>
</tr>
<tr>
<td>Intersegment revenues</td>
<td>13</td>
<td>12</td>
<td>67</td>
<td>52</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$ 2,099</strong></td>
<td><strong>$ 2,161</strong></td>
<td><strong>$ 1,678</strong></td>
<td><strong>$ 1,677</strong></td>
</tr>
</tbody>
</table>

**Pro forma EBITDA** reported to chief operating decision-maker

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Service</td>
<td>$ 970</td>
<td>$ 948</td>
<td>$ 464</td>
<td>$ 456</td>
<td>$ —</td>
<td>$ —</td>
<td>$ 1,434</td>
<td>$ 1,404</td>
</tr>
<tr>
<td>Equipment</td>
<td>—</td>
<td>(27)</td>
<td>—</td>
<td>(28)</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>(55)</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$ 970</strong></td>
<td><strong>$ 921</strong></td>
<td><strong>$ 464</strong></td>
<td><strong>$ 428</strong></td>
<td><strong>$ —</strong></td>
<td><strong>$ —</strong></td>
<td><strong>$ 1,434</strong></td>
<td><strong>$ 1,349</strong></td>
</tr>
</tbody>
</table>

CAPEX, excluding spectrum licences

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total</strong></td>
<td><strong>$ 251</strong></td>
<td><strong>$ 218</strong></td>
<td><strong>$ 497</strong></td>
<td><strong>$ 544</strong></td>
<td><strong>$ —</strong></td>
<td><strong>$ —</strong></td>
<td><strong>$ 748</strong></td>
<td><strong>$ 762</strong></td>
</tr>
</tbody>
</table>

### Nine-month periods ended September 30 (millions)

<table>
<thead>
<tr>
<th>Operating revenues</th>
<th>Wireless</th>
<th>Wireline</th>
<th>Eliminations</th>
<th>Consolidated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Service</td>
<td>$ 4,622</td>
<td>$ 4,537</td>
<td>$ 4,622</td>
<td>$ 4,331</td>
</tr>
<tr>
<td>Equipment</td>
<td>1,357</td>
<td>1,326</td>
<td>162</td>
<td>188</td>
</tr>
<tr>
<td>Revenues arising from contracts with customers</td>
<td>5,979</td>
<td>5,863</td>
<td>4,784</td>
<td>4,519</td>
</tr>
<tr>
<td>Other operating income</td>
<td>14</td>
<td>105</td>
<td>23</td>
<td>117</td>
</tr>
<tr>
<td>Intersegment revenues</td>
<td>5,993</td>
<td>5,968</td>
<td>4,807</td>
<td>4,636</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$ 6,033</strong></td>
<td><strong>$ 6,003</strong></td>
<td><strong>$ 4,990</strong></td>
<td><strong>$ 4,790</strong></td>
</tr>
</tbody>
</table>

**Pro forma EBITDA** reported to chief operating decision-maker

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Service</td>
<td>$ 2,797</td>
<td>$ 2,684</td>
<td>$ 1,389</td>
<td>$ 1,347</td>
<td>$ —</td>
<td>$ —</td>
<td>$ 4,186</td>
<td>$ 4,031</td>
</tr>
<tr>
<td>Equipment</td>
<td>—</td>
<td>(83)</td>
<td>—</td>
<td>(79)</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>(162)</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$ 2,797</strong></td>
<td><strong>$ 2,601</strong></td>
<td><strong>$ 1,389</strong></td>
<td><strong>$ 1,268</strong></td>
<td><strong>$ —</strong></td>
<td><strong>$ —</strong></td>
<td><strong>$ 4,186</strong></td>
<td><strong>$ 3,869</strong></td>
</tr>
</tbody>
</table>

CAPEX, excluding spectrum licences

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total</strong></td>
<td><strong>$ 651</strong></td>
<td><strong>$ 643</strong></td>
<td><strong>$ 1,513</strong></td>
<td><strong>$ 1,560</strong></td>
<td><strong>$ —</strong></td>
<td><strong>$ —</strong></td>
<td><strong>$ 2,164</strong></td>
<td><strong>$ 2,203</strong></td>
</tr>
</tbody>
</table>

1 Earnings before interest, income taxes, depreciation and amortization (EBITDA) does not have any standardized meaning prescribed by IFRS-IASB and is therefore unlikely to be comparable to similar measures presented by other issuers; we define EBITDA as operating revenues less goods and services

---

**Notes:**

- EBITDA is calculated as Operating revenues minus Goods and services purchased, Goods and services provided, Depreciation and amortization, and Employee benefits expense.
- The reconciliations of EBITDA to the chief operating decision-maker are consistent with our view of revenues, other revenues and income before income taxes.
- CAPEX, excluding spectrum licences, is calculated as Operating revenues minus Goods and services purchased, Goods and services provided, Depreciation and amortization, Employee benefits expense, and other operating income.
purchased and employee benefits expense. We have issued guidance on, and report, EBITDA because it is a key measure that management uses to evaluate the performance of our business, and it is also utilized in measuring compliance with certain debt covenants.

For purposes of the chief operating decision-maker’s assessment of performance during the 2019 fiscal year relative to the fiscal 2018 year, we have simulated IFRS 16 adjustments to the fiscal 2018 results in calculating pro forma results. The simulated IFRS 16 adjustments are: (i) a cash-based proxy and should not be considered comparable to the results that would have been reported had IFRS 16 been applied retrospectively to each comparative period applying IAS 8, Accounting Policies, Changes in Accounting Estimates and Errors (see Note 2(a)); and (ii) do not have any standardized meaning prescribed by IFRS-IASB and are therefore unlikely to be comparable to similar measures presented by other issuers.

Total capital expenditures (CAPEX); see Note 31(a) for a reconciliation of capital expenditures, excluding spectrum licences to cash payments for capital assets, excluding spectrum licences reported in the Consolidated statements of cash flows.

6 revenue from contracts with customers
(a) Revenues
In the determination of the minimum transaction prices in contracts with customers, amounts are allocated to fulfilling, or completion of fulfilling, future contracted performance obligations. These unfulfilled, or partially unfulfilled, future contracted performance obligations are largely in respect of services to be provided over the duration of the contract. The following table sets out our aggregate estimated minimum transaction prices allocated to remaining unfulfilled, or partially unfulfilled, future contracted performance obligations and the timing of when we might expect to recognize the associated revenues; actual amounts could differ from these estimates due to a variety of factors, including the unpredictable nature of: customer behaviour; industry regulation; the economic environments in which we operate; and competitor behaviour.

<table>
<thead>
<tr>
<th>Estimated minimum transaction price allocated to remaining unfulfilled, or partially unfulfilled, performance obligations to be recognized as revenue in a future period</th>
<th>September 30, 2019</th>
<th>December 31, 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>During the 12-month period ending one year hence</td>
<td>$2,321</td>
<td>$2,306</td>
</tr>
<tr>
<td>During the 12-month period ending two years hence</td>
<td>850</td>
<td>933</td>
</tr>
<tr>
<td>Thereafter</td>
<td>33</td>
<td>24</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$3,204</strong></td>
<td><strong>$3,263</strong></td>
</tr>
</tbody>
</table>

1 Excludes constrained variable consideration amounts, amounts arising from contracts originally expected to have a duration of one year or less and, as a permitted practical expedient, amounts arising from contracts that are not affected by revenue recognition timing differences arising from transaction price allocation or from contracts under which we may recognize and bill revenue in an amount that corresponds directly with our completed performance obligations.

2 IFRS-IASB requires the explanation of when we expect to recognize as revenue the amounts disclosed as the estimated minimum transaction price allocated to remaining unfulfilled, or partially unfulfilled, performance obligations. The estimated amounts disclosed are based upon contractual terms and maturities. Actual minimum transaction price revenues recognized, and the timing thereof, will differ from these estimates primarily due to the frequency with which the actual durations of contracts with customers do not match their contractual maturities.

(b) Accounts receivable

<table>
<thead>
<tr>
<th>As at (millions)</th>
<th>Note</th>
<th>September 30, 2019</th>
<th>December 31, 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Customer accounts receivable</td>
<td></td>
<td>$1,374</td>
<td>$1,263</td>
</tr>
<tr>
<td>Accrued receivables – customer</td>
<td></td>
<td>187</td>
<td>175</td>
</tr>
<tr>
<td>Allowance for doubtful accounts</td>
<td>4(a)</td>
<td>(43)</td>
<td>(53)</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>1,518</strong></td>
<td><strong>1,385</strong></td>
</tr>
<tr>
<td>Accrued receivables – other</td>
<td></td>
<td>317</td>
<td>215</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>$1,835</strong></td>
<td><strong>$1,600</strong></td>
</tr>
</tbody>
</table>
notes to condensed interim consolidated financial statements (unaudited)

(c) **Contract assets**

<table>
<thead>
<tr>
<th>Periods ended September 30 (millions)</th>
<th>Note</th>
<th>Three months</th>
<th>Nine months</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>2019 2018</td>
<td>2019 2018</td>
</tr>
<tr>
<td>Balance, beginning of period</td>
<td></td>
<td>$ 1,441 $ 1,272</td>
<td>$ 1,475 $ 1,303</td>
</tr>
<tr>
<td>Net additions arising from operations</td>
<td></td>
<td>215 376</td>
<td>866 960</td>
</tr>
<tr>
<td>Amounts billed in period and thus reclassified to accounts receivable ¹</td>
<td></td>
<td>(360) (325)</td>
<td>(1,063) (942)</td>
</tr>
<tr>
<td>Change in impairment allowance, net</td>
<td>4</td>
<td>15 (2)</td>
<td>11 (1)</td>
</tr>
<tr>
<td>Other</td>
<td></td>
<td>— 2</td>
<td>2 3</td>
</tr>
<tr>
<td>Balance, end of period</td>
<td></td>
<td>$ 1,311 $ 1,323</td>
<td>$ 1,311 $ 1,323</td>
</tr>
</tbody>
</table>

To be billed and thus reclassified to accounts receivable during:
- The 12-month period ending one year hence $ 961 $ 939
- The 12-month period ending two years hence 334 371
- Thereafter 16 13

Balance, end of period $ 1,311 $ 1,323

Reconciliation of contract assets presented in the Consolidated statements of financial position – current

| Gross contract assets                  |      | $ 961 $ 939 |
| Reclassification to contract liabilities of contracts with contract assets less than contract liabilities | 24   | (6) (5) |
| Reclassification from contract liabilities of contracts with contract liabilities less than contract assets | 24   | (160) (149) |

$ 795 $ 785

¹ For the three-month and nine-month periods ended September 30, 2019, amounts billed for our wireless segment and reclassified to accounts receivable totalled $328 (2018 – $299) and $978 (2018 – $866), respectively.

### 7 other operating income

<table>
<thead>
<tr>
<th>Periods ended September 30 (millions)</th>
<th>Note</th>
<th>Three months</th>
<th>Nine months</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>2019 2018</td>
<td>2019 2018</td>
</tr>
<tr>
<td>Government assistance, including deferral account amortization</td>
<td>4</td>
<td>$ 4 $ 5</td>
<td>$ 16 $ 17</td>
</tr>
<tr>
<td>Investment income, gain (loss) on disposal of assets and other</td>
<td>21</td>
<td>5 177</td>
<td>18 203</td>
</tr>
<tr>
<td>Interest income</td>
<td>21(c)</td>
<td>1 1</td>
<td>3 2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>$ 10 $ 183</td>
<td>$ 37 $ 222</td>
</tr>
</tbody>
</table>

### 8 employee benefits expense

<table>
<thead>
<tr>
<th>Periods ended September 30 (millions)</th>
<th>Note</th>
<th>Three months</th>
<th>Nine months</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>2019 2018</td>
<td>2019 2018</td>
</tr>
<tr>
<td>Employee benefits expense – gross</td>
<td></td>
<td>898 868</td>
<td>2,632 2,536</td>
</tr>
<tr>
<td>Wages and salaries</td>
<td>14</td>
<td>$ 769 $ 715</td>
<td>$ 2,234 $ 2,092</td>
</tr>
<tr>
<td>Share-based compensation</td>
<td></td>
<td>31 39</td>
<td>95 107</td>
</tr>
<tr>
<td>Pensions – defined benefit</td>
<td>15(a)</td>
<td>20 24</td>
<td>59 73</td>
</tr>
<tr>
<td>Pensions – defined contribution</td>
<td>15(b)</td>
<td>24 23</td>
<td>67 67</td>
</tr>
<tr>
<td>Restructuring costs</td>
<td>16(a)</td>
<td>12 29</td>
<td>46 80</td>
</tr>
<tr>
<td>Other</td>
<td></td>
<td>42 38</td>
<td>131 117</td>
</tr>
</tbody>
</table>

Capitalize internal labour costs, net

| Contract acquisition costs | 20   | (14) (15)       | (38) (38)   |
| Capitalized               |      | 13 11          | 36 34       |
| Amortized                 |      | — —           | 2 2         |
| Contract fulfilment costs | 20   | (1) —         | (2) (2)     |
| Capitalized               |      | 2 —           | 3 2         |
| Amortized                 |      | (88) (82)      | (263) (253) |
| Property, plant and equipment |      | (49) (42)    | (143) (128) |
| Intangible assets subject to amortization |      | (137) (128) | (407) (385) |

$ 761 $ 740 $ 2,225 $ 2,151
### 9 financing costs

<table>
<thead>
<tr>
<th>Periods ended September 30 (millions)</th>
<th>Note</th>
<th>Three months</th>
<th>Nine months</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Interest expense</strong></td>
<td></td>
<td>2019</td>
<td>2018</td>
<td>2019</td>
<td>2018</td>
</tr>
<tr>
<td>Interest on long-term debt, excluding lease liabilities – gross</td>
<td></td>
<td>$160</td>
<td>$152</td>
<td>$471</td>
<td>$447</td>
</tr>
<tr>
<td>Interest on long-term debt, excluding lease liabilities - capitalized (^1)</td>
<td>18(a)</td>
<td>(9)</td>
<td>—</td>
<td>(13)</td>
<td>—</td>
</tr>
<tr>
<td>Interest on long-term debt, excluding lease liabilities</td>
<td></td>
<td>151</td>
<td>152</td>
<td>458</td>
<td>447</td>
</tr>
<tr>
<td>Interest on lease liabilities</td>
<td></td>
<td>18</td>
<td>—</td>
<td>50</td>
<td>—</td>
</tr>
<tr>
<td>Interest on short-term borrowings and other</td>
<td></td>
<td>1</td>
<td>4</td>
<td>9</td>
<td>5</td>
</tr>
<tr>
<td>Interest on capital lease obligations</td>
<td>25</td>
<td>6</td>
<td>6</td>
<td>17</td>
<td>16</td>
</tr>
<tr>
<td>Long-term debt prepayment premium</td>
<td>26(a)</td>
<td>28</td>
<td>34</td>
<td>28</td>
<td>34</td>
</tr>
<tr>
<td>Employee defined benefit plans net interest</td>
<td>15</td>
<td>204</td>
<td>196</td>
<td>562</td>
<td>502</td>
</tr>
<tr>
<td>Foreign exchange</td>
<td></td>
<td>(3)</td>
<td>(2)</td>
<td>1</td>
<td>(4)</td>
</tr>
<tr>
<td>Interest income</td>
<td></td>
<td>202</td>
<td>198</td>
<td>564</td>
<td>509</td>
</tr>
</tbody>
</table>

\(^1\) Long-term debt, excluding lease liabilities, interest at a composite rate of 4.33% was capitalized to intangible assets with indefinite lives in the period.

### 10 income taxes

<table>
<thead>
<tr>
<th>Periods ended September 30 (millions)</th>
<th>Three months</th>
<th>Nine months</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Current income tax expense</strong></td>
<td>2019</td>
<td>2018</td>
<td>2019</td>
<td>2018</td>
</tr>
<tr>
<td>For the current reporting period</td>
<td></td>
<td>$148</td>
<td>$141</td>
<td>$345</td>
</tr>
<tr>
<td>Adjustments recognized in the current period for income taxes of prior periods</td>
<td>(66)</td>
<td>2</td>
<td>(67)</td>
<td>(6)</td>
</tr>
<tr>
<td></td>
<td>82</td>
<td>143</td>
<td>278</td>
<td>418</td>
</tr>
<tr>
<td><strong>Deferred income tax expense</strong></td>
<td>2019</td>
<td>2018</td>
<td>2019</td>
<td>2018</td>
</tr>
<tr>
<td>A arising from the origination and reversal of temporary differences</td>
<td>12</td>
<td>(3)</td>
<td>126</td>
<td>10</td>
</tr>
<tr>
<td>Revaluation of deferred income tax liability to reflect future income tax rates</td>
<td>(2)</td>
<td>—</td>
<td>(123)</td>
<td>—</td>
</tr>
<tr>
<td>Adjustments recognized in the current period for income taxes of prior periods</td>
<td>52</td>
<td>(6)</td>
<td>51</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>62</td>
<td>(9)</td>
<td>54</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>$144</td>
<td>$134</td>
<td>$332</td>
<td>$430</td>
</tr>
</tbody>
</table>

Our income tax expense and effective income tax rate differ from those calculated by applying the applicable statutory rates for the following reasons:

#### Three-month periods ended September 30 ($ in millions)

<table>
<thead>
<tr>
<th></th>
<th>2019</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Income taxes computed at applicable statutory rates</td>
<td>$157</td>
<td>26.9%</td>
</tr>
<tr>
<td>Revaluation of deferred income tax liability to reflect future income tax rates</td>
<td>(2)</td>
<td>(0.3)</td>
</tr>
<tr>
<td>Adjustments recognized in the current period for income taxes of prior periods</td>
<td>(14)</td>
<td>(2.4)</td>
</tr>
<tr>
<td>Other</td>
<td>3</td>
<td>0.5</td>
</tr>
<tr>
<td>Income tax expense per Consolidated statements of income and other comprehensive income</td>
<td>$144</td>
<td>24.7%</td>
</tr>
</tbody>
</table>

#### Nine-month periods ended September 30 ($ in millions)

<table>
<thead>
<tr>
<th></th>
<th>2019</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Income taxes computed at applicable statutory rates</td>
<td>$465</td>
<td>26.9%</td>
</tr>
<tr>
<td>Revaluation of deferred income tax liability to reflect future income tax rates</td>
<td>(123)</td>
<td>(7.1)</td>
</tr>
<tr>
<td>Adjustments recognized in the current period for income taxes of prior periods</td>
<td>(16)</td>
<td>(0.9)</td>
</tr>
<tr>
<td>Other</td>
<td>6</td>
<td>0.3</td>
</tr>
<tr>
<td>Income tax expense per Consolidated statements of income and other comprehensive income</td>
<td>$332</td>
<td>19.2%</td>
</tr>
</tbody>
</table>
11 other comprehensive income

<table>
<thead>
<tr>
<th>Periods ended September 30 (millions)</th>
<th>Derivatives used to manage currency risk</th>
<th>Derivatives used to manage other market risks</th>
<th>Cumulative foreign currency translation adjustment</th>
<th>Change in measurement of investment financial assets</th>
<th>Accumulated other comp. income</th>
<th>Employee defined benefit plan re-measurements</th>
<th>Other comp. income</th>
</tr>
</thead>
<tbody>
<tr>
<td>THREE-MONTH</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Accumulated balance as at</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>July 1, 2018</td>
<td>$ (36)</td>
<td></td>
<td>$ 6</td>
<td>$ (30)</td>
<td>$ 32</td>
<td>$ 1</td>
<td>$ 3</td>
</tr>
<tr>
<td>Other comprehensive income (loss)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Amount arising</td>
<td>$ (41)</td>
<td>$ 42</td>
<td>$ 5</td>
<td>$ (4)</td>
<td>1</td>
<td>2</td>
<td>7</td>
</tr>
<tr>
<td>Income taxes</td>
<td>$ (6)</td>
<td>$ 6</td>
<td>$ 2</td>
<td>$ (2)</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Net</td>
<td>.</td>
<td>1</td>
<td>2</td>
<td>7</td>
<td>(1)</td>
<td>8</td>
<td>$ (12)</td>
</tr>
<tr>
<td>Accumulated balance as at</td>
<td></td>
<td>$ 7</td>
<td>$ (28)</td>
<td>$ 39</td>
<td>—</td>
<td>—</td>
<td>$ 11</td>
</tr>
<tr>
<td>September 30, 2018</td>
<td>$ (35)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Accumulated balance as at</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>July 1, 2019</td>
<td>$ (57)</td>
<td></td>
<td>$ (1)</td>
<td>$ (58)</td>
<td>$ 39</td>
<td>—</td>
<td>$ (19)</td>
</tr>
<tr>
<td>Other comprehensive income (loss)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Amount arising</td>
<td>$ 196</td>
<td>$ (42)</td>
<td>$ (5)</td>
<td>$ 2</td>
<td>(3)</td>
<td>151</td>
<td>5</td>
</tr>
<tr>
<td>Income taxes</td>
<td>$ 51</td>
<td>$ (9)</td>
<td>$ (1)</td>
<td>—</td>
<td>(1)</td>
<td>41</td>
<td>—</td>
</tr>
<tr>
<td>Net</td>
<td>112</td>
<td>(2)</td>
<td>110</td>
<td>5</td>
<td>4</td>
<td>119</td>
<td></td>
</tr>
<tr>
<td>Accumulated balance as at</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>September 30, 2019</td>
<td>$ 55</td>
<td>$ (3)</td>
<td>$ 52</td>
<td>$ 44</td>
<td>$ 4</td>
<td>$ 100</td>
<td></td>
</tr>
</tbody>
</table>
## Items that may subsequently be reclassified to income

<table>
<thead>
<tr>
<th>Periods ended September 30 (millions)</th>
<th>Derivatives used to manage currency risk</th>
<th>Derivatives used to manage other market risks</th>
<th>Change in measurement of investment financial assets</th>
<th>Accumulated other comp. income</th>
<th>Employee defined benefit plan re-measurements</th>
<th>Other comp. income</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>NINE-MONTH</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Accumulated balance as at January 1, 2018</td>
<td>$ (9)</td>
<td>$ 8</td>
<td>$ (1)</td>
<td>$ 53</td>
<td>$ 1</td>
<td>$ 53</td>
</tr>
<tr>
<td>Other comprehensive income (loss)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Amount arising</td>
<td>$ 36</td>
<td>$ (72)</td>
<td>$ (36)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Income taxes</td>
<td>$ 4</td>
<td>$ (14)</td>
<td>$ (10)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Net</td>
<td>(26)</td>
<td>(1)</td>
<td>(27)</td>
<td>(14)</td>
<td>(1)</td>
<td>(42)</td>
</tr>
<tr>
<td>Accumulated balance as at September 30, 2018</td>
<td>$ (35)</td>
<td>$ 7</td>
<td>$ (28)</td>
<td>$ 39</td>
<td>$ —</td>
<td>$ 11</td>
</tr>
<tr>
<td>Accumulated balance as at January 1, 2019</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>As previously reported IFRS 16, Leases transitional amount (Note 2(c))</td>
<td>$ (19)</td>
<td>$ —</td>
<td>$ (19)</td>
<td>$ 23</td>
<td>$ —</td>
<td>$ 4</td>
</tr>
<tr>
<td>As adjusted</td>
<td>(19)</td>
<td></td>
<td>(19)</td>
<td>22</td>
<td>—</td>
<td>3</td>
</tr>
<tr>
<td>Other comprehensive income (loss)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Amount arising</td>
<td>$ 30</td>
<td>$ 72</td>
<td>$ 102</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Income taxes</td>
<td>$ 19</td>
<td>$ 9</td>
<td>$ 28</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Net</td>
<td>74</td>
<td></td>
<td>(3)</td>
<td>71</td>
<td>22</td>
<td>4</td>
</tr>
<tr>
<td>Accumulated balance as at September 30, 2019</td>
<td>$ 55</td>
<td></td>
<td>$ (3)</td>
<td>$ 52</td>
<td>$ 44</td>
<td>$ 4</td>
</tr>
</tbody>
</table>

**Attributable to:**

- **Common Shares** $100
- **Non-controlling interests** $100
per share amounts

Basic net income per Common Share is calculated by dividing net income attributable to Common Shares by the total weighted average number of Common Shares outstanding during the period. Diluted net income per Common Share is calculated to give effect to share option awards and restricted share units.

The following table presents reconciliations of the denominators of the basic and diluted per share computations. Net income was equal to diluted net income for all periods presented.

<table>
<thead>
<tr>
<th>Periods ended September 30 (millions)</th>
<th>2019</th>
<th>2018</th>
<th>2019</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic total weighted average number of Common Shares outstanding</td>
<td>602</td>
<td>597</td>
<td>601</td>
<td>596</td>
</tr>
<tr>
<td>Effect of dilutive securities</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Restricted share units</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Share option awards</td>
<td>—</td>
<td>1</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Diluted total weighted average number of Common Shares outstanding</td>
<td>602</td>
<td>598</td>
<td>601</td>
<td>596</td>
</tr>
</tbody>
</table>

For the three-month and nine-month periods ended September 30, 2019, less than one million outstanding equity-settled restricted share unit awards were not included in the computation of diluted income per common share as the associated performance conditions were not satisfied. For the three-month and nine-month periods ended September 30, 2019 and 2018, no outstanding TELUS Corporation share option awards were excluded in the calculation of diluted net income per Common Share; as at September 30, 2019, no TELUS Corporation share option awards were outstanding (see Note 14(d)).

dividends per share

(a) Dividends declared

<table>
<thead>
<tr>
<th>Common Share dividends</th>
<th>2019</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Declared</td>
<td>Paid to shareholders</td>
</tr>
<tr>
<td>Quarter 1 dividend</td>
<td>Mar. 11, 2019</td>
<td>$0.5450</td>
</tr>
<tr>
<td>Quarter 2 dividend</td>
<td>Jun. 10, 2019</td>
<td>0.5625</td>
</tr>
<tr>
<td>Quarter 3 dividend</td>
<td>Sep. 10, 2019</td>
<td>0.5625</td>
</tr>
<tr>
<td></td>
<td>$1.6700</td>
<td>$1,006</td>
</tr>
</tbody>
</table>

On November 6, 2019, the Board of Directors declared a quarterly dividend of $0.5825 per share on our issued and outstanding Common Shares payable on January 2, 2020, to holders of record at the close of business on December 11, 2019. The final amount of the dividend payment depends upon the number of Common Shares issued and outstanding at the close of business on December 11, 2019.

(b) Dividend Reinvestment and Share Purchase Plan

We have a Dividend Reinvestment and Share Purchase Plan under which eligible holders of Common Shares may acquire additional Common Shares by reinvesting dividends and by making additional optional cash payments to the trustee. Under this Plan, we have the option of offering Common Shares from Treasury or having the trustee acquire Common Shares in the stock market. We may, at our discretion, offer Common Shares at a discount of up to 5% from the market price under the Plan. Effective with our dividends paid October 1, 2019, we offered Common Shares from Treasury at a discount of 2%. In respect of Common Shares whose eligible shareholders have elected to participate in the plan, dividends declared during the three-month and nine-month periods ended September 30, 2019, of $106 million (2018 – $13 million) and $134 million (2018 – $40 million), respectively, were to be reinvested in Common Shares.
14 share-based compensation

(a) Details of share-based compensation expense

Reflected in the Consolidated statements of income and other comprehensive income as Employee benefits expense and in the Consolidated statements of cash flows are the following share-based compensation amounts:

<table>
<thead>
<tr>
<th>Periods ended September 30 (millions)</th>
<th>2019</th>
<th></th>
<th>2018</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Note</td>
<td>Employee benefits expense</td>
<td>Associated operating cash outflows</td>
<td>Statement of cash flows adjustment</td>
</tr>
<tr>
<td>--------------------------------------</td>
<td>------</td>
<td>---------------------------</td>
<td>----------------------------------</td>
<td>----------------------------------</td>
</tr>
<tr>
<td>THREE-MONTH</td>
<td></td>
<td>$ 22</td>
<td>$(8)</td>
<td>$ 14</td>
</tr>
<tr>
<td>Restricted share units</td>
<td>(b)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Employee share purchase plan</td>
<td>(c)</td>
<td>9</td>
<td>—</td>
<td>9</td>
</tr>
<tr>
<td>Share option awards</td>
<td>(d)</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td></td>
<td></td>
<td>$ 31</td>
<td>$(17)</td>
<td>$ 14</td>
</tr>
<tr>
<td>NINE-MONTH</td>
<td></td>
<td>$ 67</td>
<td>$(15)</td>
<td>$ 52</td>
</tr>
<tr>
<td>Restricted share units</td>
<td>(b)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Employee share purchase plan</td>
<td>(c)</td>
<td>27</td>
<td>(27)</td>
<td>27</td>
</tr>
<tr>
<td>Share option awards</td>
<td>(d)</td>
<td>1</td>
<td>—</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>$ 95</td>
<td>$(42)</td>
<td>$ 53</td>
</tr>
</tbody>
</table>

For the three-month and nine-month periods ended September 30, 2019, the associated operating cash outflows in respect of restricted share units were net of cash inflows arising from cash-settled equity forward agreements of $2 million (2018 – $2 million) and $5 million (2018 – $6 million), respectively. For the three-month and nine-month periods ended September 30, 2019, the income tax benefit arising from share-based compensation was $8 million (2018 – $12 million) and $25 million (2018 – $30 million), respectively.

(b) Restricted share units

General

We use restricted share units as a form of retention and incentive compensation. Each restricted share unit is nominally equal in value to one equity share and is nominally entitled to the dividends that would arise thereon if it were an issued and outstanding equity share. The notional dividends are recorded as additional issuances of restricted share units during the life of the restricted share unit. Due to the notional dividend mechanism, the grant-date fair value of restricted share units equals the fair market value of the corresponding equity shares at the grant date, other than for the notional subset of our restricted share units affected by the relative total shareholder return performance condition (which have their grant-date fair value determined using a Monte Carlo simulation). The restricted share units generally become payable when vesting is complete and typically vest over a period of 33 months (the requisite service period). The vesting method of restricted share units, which is determined on or before the date of grant, may be either cliff or graded; the majority of restricted share units are cliff vesting. Accounting for restricted share units, as either equity instruments or liability instruments, is based upon their expected manner of settlement when they are granted. Grants of restricted share units prior to fiscal 2019 are accounted for as liabilities as their associated obligation is normally cash-settled.

TELUS Corporation restricted share units

We also award restricted share units that largely have the same features as our general restricted share units, but have a variable payout (0% – 200%) that depends upon the achievement of our total customer connections performance condition (with a weighting of 25%) and the total shareholder return on our Common Shares relative to an international peer group of telecommunications companies (with a weighting of 75%). The grant-date fair value of the notional subset of our restricted share units affected by the total customer connections performance condition equals the fair market value of the corresponding Common Shares at the grant date, and thus the notional subset has been included in the presentation of our restricted share units with only service conditions. The estimate, which reflects a variable payout, of the fair value of the notional subset of our restricted share units affected by the relative total shareholder return performance condition is determined using a Monte Carlo simulation. Grants of restricted share units in 2019 are accounted for as equity-settled as that was their expected manner of settlement when granted.
The following table presents a summary of outstanding TELUS Corporation non-vested restricted share units.

<table>
<thead>
<tr>
<th>Restricted share units without market performance conditions</th>
<th>September 30, 2019</th>
<th>December 31, 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Restricted share units with only service conditions</td>
<td>4,819,634</td>
<td>3,037,881</td>
</tr>
<tr>
<td>Notional subset affected by total customer connections</td>
<td>229,997</td>
<td>155,639</td>
</tr>
<tr>
<td>performance condition</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Restricted share units with market performance conditions</td>
<td>5,049,631</td>
<td>3,193,520</td>
</tr>
<tr>
<td>Notional subset affected by relative total shareholder</td>
<td>689,991</td>
<td>466,917</td>
</tr>
<tr>
<td>return performance condition</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>5,739,622</td>
<td>3,660,437</td>
</tr>
</tbody>
</table>

The following table presents a summary of the activity related to TELUS Corporation restricted share units without market performance conditions.

<table>
<thead>
<tr>
<th>Periods ended September 30, 2019</th>
<th>Three months</th>
<th>Nine months</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Number of restricted share units</td>
<td>Weighted average grant-date fair value</td>
</tr>
<tr>
<td></td>
<td>Non-vested</td>
<td>Vested</td>
</tr>
<tr>
<td>Outstanding, beginning of period</td>
<td>3,080,159</td>
<td></td>
</tr>
<tr>
<td>Non-vested</td>
<td>—</td>
<td>6,153</td>
</tr>
<tr>
<td>Vested</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Issued</td>
<td>2,031,008</td>
<td></td>
</tr>
<tr>
<td>Initial award</td>
<td>34,751</td>
<td>69</td>
</tr>
<tr>
<td>In lieu of dividends</td>
<td>(58,233)</td>
<td>58,233</td>
</tr>
<tr>
<td>Vested</td>
<td>(58,237)</td>
<td></td>
</tr>
<tr>
<td>Settled in cash</td>
<td>(38,054)</td>
<td></td>
</tr>
<tr>
<td>Forfeited and cancelled</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Outstanding, end of period</td>
<td>5,049,631</td>
<td></td>
</tr>
<tr>
<td>Non-vested</td>
<td>—</td>
<td>6,058</td>
</tr>
<tr>
<td>Vested</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1 Excluding the notional subset of restricted share units affected by the relative total shareholder return performance condition.

With respect to certain issuances of TELUS Corporation restricted share units accounted for as liability instruments, we have entered into cash-settled equity forward agreements that fix our cost; that information, as well as a schedule of non-vested TELUS Corporation restricted share units outstanding as at September 30, 2019, is set out in the following table.

<table>
<thead>
<tr>
<th>Vesting in years ending December 31</th>
<th>Number of fixed-cost restricted share units</th>
<th>Our fixed cost per restricted share unit</th>
<th>Number of variable-cost restricted share units</th>
<th>Total number of non-vested restricted share units</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019</td>
<td>1,439,418</td>
<td>$ 45.53</td>
<td>99,826</td>
<td>1,539,244</td>
</tr>
<tr>
<td>2020</td>
<td>1,469,272</td>
<td>$ 48.76</td>
<td>222,239</td>
<td>1,691,511</td>
</tr>
<tr>
<td></td>
<td>2,908,690</td>
<td></td>
<td>322,065</td>
<td>3,230,755</td>
</tr>
</tbody>
</table>

1 Excluding the notional subset of restricted share units affected by the relative total shareholder return performance condition vesting in the years ending December 31, 2019.

**TELUS International (Cda) Inc. restricted share units**

We also award restricted share units that largely have the same features as the TELUS Corporation restricted share units, but have a variable payout (0% – 150%) that depends upon the achievement of TELUS International (Cda) Inc. financial performance and non-market quality-of-service performance conditions.
The following table presents a summary of the activity related to TELUS International (Cda) Inc. restricted share units.

<table>
<thead>
<tr>
<th>Periods ended</th>
<th>US$ denominated</th>
<th>Canadian $ denominated</th>
<th>US$ denominated</th>
<th>Canadian $ denominated</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Number of restricted share units</td>
<td>Weighted average grant-date fair value</td>
<td>Number of vested restricted share units</td>
<td>Weighted average grant-date fair value</td>
</tr>
<tr>
<td></td>
<td>Non-vested</td>
<td>Vested</td>
<td>Non-vested</td>
<td>Vested</td>
</tr>
<tr>
<td>Outstanding, beginning of period</td>
<td>645,593</td>
<td>—</td>
<td>US$ 25.98</td>
<td>—</td>
</tr>
<tr>
<td>Issued</td>
<td>499</td>
<td>—</td>
<td>US$ 30.09</td>
<td>—</td>
</tr>
<tr>
<td>Vested</td>
<td>(180,585)</td>
<td>180,585</td>
<td>US$ 22.09</td>
<td>—</td>
</tr>
<tr>
<td>Forfeited and cancelled</td>
<td>(7,631)</td>
<td>—</td>
<td>US$ 26.68</td>
<td>—</td>
</tr>
<tr>
<td>Outstanding, end of period</td>
<td>457,876</td>
<td>—</td>
<td>US$ 27.35</td>
<td>—</td>
</tr>
<tr>
<td>Vested</td>
<td>561,712</td>
<td>—</td>
<td>US$ 25.68</td>
<td>—</td>
</tr>
<tr>
<td>Forfeited and cancelled</td>
<td>—</td>
<td>—</td>
<td>US$ —</td>
<td>—</td>
</tr>
</tbody>
</table>

(c) Employee share purchase plan
We have an employee share purchase plan under which eligible employees up to a certain job classification can purchase our Common Shares through regular payroll deductions. In respect of Common Shares held within the employee share purchase plan, Common Share dividends declared during the three-month and nine-month periods ended September 30, 2019, of $8 million (2018 – $8 million) and $25 million (2018 – $25 million), respectively, were to be reinvested in Common Shares acquired by the trustee from Treasury, with no discount applicable prior to October 1, 2019; subsequent to that date, a discount was applicable as set out in Note 13(b).

(d) Share option awards

**TELUS Corporation share options**
Employees may receive options to purchase Common Shares at an exercise price equal to the fair market value at the time of grant. Share option awards granted under the plan may be exercised over specific periods not to exceed seven years from the time of grant. No share option awards were granted in fiscal 2019 or 2018.

These share option awards have a net-equity settlement feature. The optionee does not have the choice of exercising the net-equity settlement feature; it is at our option whether the exercise of a share option award is settled as a share option or settled using the net-equity settlement feature.

The following table presents a summary of the activity related to the TELUS Corporation share option plan.

<table>
<thead>
<tr>
<th>Periods ended September 30, 2019</th>
<th>Three months</th>
<th>Nine months</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Number of share options</td>
<td>Weighted average share option price</td>
</tr>
<tr>
<td>Outstanding, beginning of period</td>
<td>2,490</td>
<td>31.69</td>
</tr>
<tr>
<td>Exercised</td>
<td>(2,490)</td>
<td>31.69</td>
</tr>
<tr>
<td>Forfeited</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Expired</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Outstanding, end of period</td>
<td>—</td>
<td>—</td>
</tr>
</tbody>
</table>

1 The total intrinsic value of share option awards exercised for the three-month and nine-month periods ended September 30, 2019, was $NIL and $6 million, respectively, reflecting weighted average prices at the dates of exercise of $47.55 per share and $48.88 per share, respectively. The difference between the number of share options exercised and the number of Common Shares issued (as reflected in the Consolidated statements of changes in owners’ equity) is the effect of our choosing to settle share option award exercises using the net-equity settlement feature.

**TELUS International (Cda) Inc. share options**
Employees may receive equity share options (equity-settled) to purchase TELUS International (Cda) Inc. common shares at a price equal to, or a multiple of, the fair market value at the time of grant and/or phantom share options (cash-settled) that provide them with exposure to TELUS International (Cda) Inc. common share price appreciation. Share option awards granted under the plan may be exercised over specific periods not to exceed ten years from the time of grant. All equity share option awards and most phantom share option awards have a variable payout (0% – 100%) that depends upon the achievement of TELUS International (Cda) Inc. financial performance and non-market quality-of-service performance conditions.
The following table presents a summary of the activity related to the TELUS International (Cda) Inc. share option plan.

<table>
<thead>
<tr>
<th>Periods ended September 30, 2019</th>
<th>US$ denominated</th>
<th>Canadian $ denominated</th>
<th>US$ denominated</th>
<th>Canadian $ denominated</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Weighted average share options price</td>
<td>Number of share options</td>
<td>Share option price</td>
<td>Weighted average share options price</td>
</tr>
<tr>
<td>Outstanding, beginning and end of period</td>
<td>858,735 US$29.83</td>
<td>53,832</td>
<td>$ 21.36</td>
<td>858,735 US$29.83</td>
</tr>
</tbody>
</table>

1 The range of share option prices is US$21.90 – US$40.26 per TELUS International (Cda) Inc. equity share and the weighted average remaining contractual life is 7.6 years.
2 The weighted average remaining contractual life is 6.9 years.

### 15 Employee future benefits

#### (a) Defined benefit pension plans – details

Our defined benefit pension plan expense (recovery) was as follows:

<table>
<thead>
<tr>
<th>Recognized in</th>
<th>Employee benefits expense</th>
<th>Financing costs</th>
<th>Other comp. income</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019</td>
<td>(Note 8)</td>
<td>(Note 9)</td>
<td>(Note 11)</td>
<td></td>
</tr>
<tr>
<td>Current service cost</td>
<td>$ 18</td>
<td>$ —</td>
<td>$ —</td>
<td>$ 18</td>
</tr>
<tr>
<td>Past service costs</td>
<td>$ 22</td>
<td>$ —</td>
<td>$ —</td>
<td>$ 22</td>
</tr>
<tr>
<td>Net interest; return on plan assets</td>
<td>$ 85</td>
<td>$ 85</td>
<td>$ 85</td>
<td>$ 80</td>
</tr>
<tr>
<td>Return, including interest income, on plan assets</td>
<td>$ (86)</td>
<td>$ 85</td>
<td>$ 1</td>
<td>$ (77)</td>
</tr>
<tr>
<td>Interest effect on asset ceiling limit</td>
<td>$ 2</td>
<td>$ 2</td>
<td>$ 2</td>
<td>$ 1</td>
</tr>
<tr>
<td>Administrative fees</td>
<td>$ 2</td>
<td>$ 2</td>
<td>$ 2</td>
<td></td>
</tr>
<tr>
<td>Changes in the effect of limiting net defined benefit assets to the asset ceiling</td>
<td>$ (82)</td>
<td>$ (82)</td>
<td>$ (82)</td>
<td>$ (82)</td>
</tr>
<tr>
<td>2018</td>
<td>(Note 8)</td>
<td>(Note 9)</td>
<td>(Note 11)</td>
<td></td>
</tr>
<tr>
<td>Current service cost</td>
<td>$ 24</td>
<td>$ 4</td>
<td>$ 12</td>
<td>$ 40</td>
</tr>
<tr>
<td>Past service costs</td>
<td>$ 24</td>
<td>$ 4</td>
<td>$ 12</td>
<td>$ 40</td>
</tr>
<tr>
<td>Net interest; return on plan assets</td>
<td>$ 80</td>
<td>$ 80</td>
<td>$ 80</td>
<td>$ 80</td>
</tr>
<tr>
<td>Return, including interest income, on plan assets</td>
<td>$ (78)</td>
<td>$ 12</td>
<td>$ 16</td>
<td>$ (78)</td>
</tr>
<tr>
<td>Interest effect on asset ceiling limit</td>
<td>$ 2</td>
<td>$ 2</td>
<td>$ 2</td>
<td>$ 2</td>
</tr>
<tr>
<td>Administrative fees</td>
<td>$ 2</td>
<td>$ 2</td>
<td>$ 2</td>
<td></td>
</tr>
<tr>
<td>Changes in the effect of limiting net defined benefit assets to the asset ceiling</td>
<td>$ (65)</td>
<td>$ (65)</td>
<td>$ (65)</td>
<td>$ (65)</td>
</tr>
</tbody>
</table>

1 The interest income on the plan assets portion of the employee defined benefit plans net interest amount included in Financing costs reflects a rate of return on plan assets equal to the discount rate used in determining the defined benefit obligations accrued.
(b) Defined contribution plans – expense
Our total defined contribution pension plan costs recognized were as follows:

<table>
<thead>
<tr>
<th>Periods ended September 30 (millions)</th>
<th>Three months</th>
<th>Nine months</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2019 2018</td>
<td>2019 2018</td>
</tr>
<tr>
<td>Union pension plan and public service pension plan contributions</td>
<td>$5 $6</td>
<td>$16 $17</td>
</tr>
<tr>
<td>Other defined contribution pension plans</td>
<td>$19 $17</td>
<td>$51 $50</td>
</tr>
<tr>
<td></td>
<td>$24 $23</td>
<td>$67 $67</td>
</tr>
</tbody>
</table>

16 restructuring and other costs

(a) Details of restructuring and other costs
With the objective of reducing ongoing costs, we incur associated incremental non-recurring restructuring costs, as discussed further in (b) following. We may also incur atypical charges when undertaking major or transformational changes to our business or operating models or post-acquisition business integration. In other costs, we include incremental atypical external costs incurred in connection with business acquisition or disposition activity, as well as significant litigation costs, in the context of losses or settlements, and adverse retrospective regulatory decisions.

Restructuring and other costs are presented in the Consolidated statements of income and other comprehensive income, as set out in the following table:

<table>
<thead>
<tr>
<th>Periods ended September 30 (millions)</th>
<th>Restructuring (b)</th>
<th>Other (c)</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2019 2018</td>
<td>2019 2018</td>
<td>2019 2018</td>
</tr>
<tr>
<td>THREE-MONTH</td>
<td>$17 $21</td>
<td>$— $120</td>
<td>$17 $141</td>
</tr>
<tr>
<td>Goods and services purchased</td>
<td>12 29</td>
<td>— 3</td>
<td>12 32</td>
</tr>
<tr>
<td>Employee benefits expense</td>
<td>$29 $50</td>
<td>$— $123</td>
<td>$29 $173</td>
</tr>
<tr>
<td>NINE-MONTH</td>
<td>$36 $32</td>
<td>$7 $124</td>
<td>$43 $156</td>
</tr>
<tr>
<td>Goods and services purchased</td>
<td>46 80</td>
<td>5 6</td>
<td>51 86</td>
</tr>
<tr>
<td>Employee benefits expense</td>
<td>$82 $112</td>
<td>$12 $130</td>
<td>$94 $242</td>
</tr>
</tbody>
</table>

(b) Restructuring provisions
Employee-related provisions and other provisions, as presented in Note 25, include amounts in respect of restructuring activities. In 2019, restructuring activities included ongoing and incremental efficiency initiatives, including personnel-related costs and rationalization of real estate. These initiatives were intended to improve our long-term operating productivity and competitiveness.

(c) Other
During the three-month and nine-month periods ended September 30, 2019, incremental external costs were incurred in connection with business acquisition activity. In connection with business acquisitions, non-recurring atypical business integration expenditures that would be considered neither restructuring costs nor part of the fair value of the net assets acquired have been included in other costs.
17 property, plant and equipment

<table>
<thead>
<tr>
<th>(millions)</th>
<th>Note</th>
<th>Owned assets</th>
<th>Asset under construction</th>
<th>Total</th>
<th>Right-of-use lease assets (Note 19)</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Network assets</td>
<td>Buildings and leasehold improvements</td>
<td>Other</td>
<td>Land</td>
<td></td>
</tr>
<tr>
<td>AT COST</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$ 29,956 $ 3,273 $ 1,174 $ 48 $ 779 $ 35,230</td>
</tr>
<tr>
<td>As at January 1, 2019</td>
<td></td>
<td>2(c)</td>
<td>Reclassification arising from implementation of IFRS 16</td>
<td>(101)</td>
<td>—</td>
<td>(1)</td>
</tr>
<tr>
<td>As adjusted</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>29,855 3,273 1,173 48 779 35,128</td>
</tr>
<tr>
<td>Additions</td>
<td></td>
<td>18(b)</td>
<td>Additions arising from business acquisitions</td>
<td>683</td>
<td>22</td>
<td>68</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Disposals, retirements and other</td>
<td>(498) (98) (42)</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Assets under construction</td>
<td></td>
<td>Net foreign exchange differences</td>
<td>809</td>
<td>69</td>
<td>88</td>
<td>(966)</td>
</tr>
<tr>
<td>As at September 30, 2019</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$ 30,885 $ 3,266 $ 1,293 $ 48 $ 750 $ 36,242</td>
</tr>
<tr>
<td>ACCUMULATED DEPRECIATION</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$ 20,300 $ 2,050 $ 789 $ — $ — $ 23,139</td>
</tr>
<tr>
<td>As at January 1, 2019</td>
<td></td>
<td>19</td>
<td>Reclassification arising from implementation of IFRS 16</td>
<td>(1)</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>As adjusted</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>20,299 2,050 789 —</td>
</tr>
<tr>
<td>Depreciation 1</td>
<td></td>
<td></td>
<td></td>
<td>1,098</td>
<td>89</td>
<td>98</td>
</tr>
<tr>
<td>Dispositions, retirements and other</td>
<td></td>
<td></td>
<td></td>
<td>(501) (97) (42)</td>
<td>—</td>
<td>(640)</td>
</tr>
<tr>
<td>As at September 30, 2019</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$ 20,896 $ 2,042 $ 845 $ — $ — $ 23,783</td>
</tr>
<tr>
<td>NET BOOK VALUE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$ 9,666 $ 1,223 $ 385 $ 48 $ 779 $ 12,091</td>
</tr>
<tr>
<td>As at December 31, 2018</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$ 9,989 $ 1,224 $ 448 $ 48 $ 750 $ 12,459</td>
</tr>
<tr>
<td>As at September 30, 2019</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$ 9,989 $ 1,224 $ 448 $ 48 $ 750 $ 12,459</td>
</tr>
</tbody>
</table>

1 For the nine-month period ended September 30, 2019, depreciation includes $3 in respect of impairment of real estate right-of-use lease assets.

As at September 30, 2019, our contractual commitments for the acquisition of property, plant and equipment totalled $123 million over a period ending December 31, 2020 (December 31, 2018 – $148 million over a period ending December 31, 2022).
### Intangible Assets and Goodwill

#### (a) Intangible Assets and Goodwill, net

<table>
<thead>
<tr>
<th>(millions)</th>
<th>Intangible assets subject to amortization</th>
<th>Intangible assets with indefinite lives</th>
<th>Total</th>
<th>Spectrum licences</th>
<th>Total intangible assets</th>
<th>Goodwill</th>
<th>Total intangible assets and goodwill</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Customer contracts, related customer relationships and subscriber base</td>
<td>Software</td>
<td>Access to rights-of-way and other</td>
<td>Assets under construction</td>
<td>Total</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AT COST</td>
<td>$ 616</td>
<td>$ 5,092</td>
<td>$ 103</td>
<td>$ 341</td>
<td>$ 6,152</td>
<td>$ 8,694</td>
<td>$ 14,846</td>
</tr>
<tr>
<td>As at January 1, 2019</td>
<td>—</td>
<td>44</td>
<td>8</td>
<td>411</td>
<td>463</td>
<td>1,217</td>
<td>1,680</td>
</tr>
<tr>
<td>Additions arising from business acquisitions (b)</td>
<td>119</td>
<td>144</td>
<td>—</td>
<td>—</td>
<td>263</td>
<td>—</td>
<td>263</td>
</tr>
<tr>
<td>Dispositions, retirements and other (including capitalized interest (see Note 9))</td>
<td>(7)</td>
<td>(148)</td>
<td>—</td>
<td>—</td>
<td>(155)</td>
<td>16</td>
<td>(139)</td>
</tr>
<tr>
<td>Assets under construction put into service</td>
<td>(6)</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>(6)</td>
<td>—</td>
<td>(6)</td>
</tr>
<tr>
<td>As at September 30, 2019</td>
<td>$ 722</td>
<td>$ 5,564</td>
<td>$ 111</td>
<td>$ 320</td>
<td>$ 6,717</td>
<td>$ 9,927</td>
<td>$ 16,644</td>
</tr>
</tbody>
</table>

#### ACCUMULATED AMORTIZATION

<table>
<thead>
<tr>
<th>(millions)</th>
<th>Intangible assets subject to amortization</th>
<th>Intangible assets with indefinite lives</th>
<th>Total</th>
<th>Spectrum licences</th>
<th>Total intangible assets</th>
<th>Goodwill</th>
<th>Total intangible assets and goodwill</th>
</tr>
</thead>
<tbody>
<tr>
<td>As at January 1, 2019</td>
<td>$ 226</td>
<td>$ 3,621</td>
<td>$ 65</td>
<td>—</td>
<td>$ 3,912</td>
<td>—</td>
<td>$ 3,912</td>
</tr>
<tr>
<td>Amortization</td>
<td>48</td>
<td>419</td>
<td>3</td>
<td>—</td>
<td>470</td>
<td>—</td>
<td>470</td>
</tr>
<tr>
<td>Dispositions, retirements and other</td>
<td>(13)</td>
<td>(142)</td>
<td>—</td>
<td>—</td>
<td>(155)</td>
<td>—</td>
<td>(155)</td>
</tr>
<tr>
<td>As at September 30, 2019</td>
<td>$ 261</td>
<td>$ 3,898</td>
<td>$ 68</td>
<td>—</td>
<td>$ 4,227</td>
<td>—</td>
<td>$ 4,227</td>
</tr>
</tbody>
</table>

#### NET BOOK VALUE

<table>
<thead>
<tr>
<th>(millions)</th>
<th>Intangible assets subject to amortization</th>
<th>Intangible assets with indefinite lives</th>
<th>Total</th>
<th>Spectrum licences</th>
<th>Total intangible assets</th>
<th>Goodwill</th>
<th>Total intangible assets and goodwill</th>
</tr>
</thead>
<tbody>
<tr>
<td>As at December 31, 2018</td>
<td>$ 390</td>
<td>$ 1,471</td>
<td>$ 38</td>
<td>$ 341</td>
<td>$ 2,240</td>
<td>$ 8,694</td>
<td>$ 10,934</td>
</tr>
<tr>
<td>As at September 30, 2019</td>
<td>$ 461</td>
<td>$ 1,666</td>
<td>$ 43</td>
<td>$ 320</td>
<td>$ 2,490</td>
<td>$ 9,927</td>
<td>$ 12,417</td>
</tr>
</tbody>
</table>

1. The opening balances of customer contracts, related customer relationships and subscriber base, and goodwill, have been adjusted as set out in (c).
2. Accumulated amortization of goodwill is amortization recorded prior to 2002; there are no accumulated impairment losses in the accumulated amortization of goodwill.

As at September 30, 2019, our contractual commitments for the acquisition of intangible assets totalled $26 million over a period ending December 31, 2021 (December 31, 2018 — $48 million over a period ending December 31, 2021).

Innovation, Science and Economic Development Canada’s 600 MHz auction occurred during the period from March 14, 2019, through April 4, 2019. We were the successful auction participant on 12 spectrum licences for a total purchase price of $931 million.

During the quarter ended September 30, 2019, we obtained the use of AWS-4 spectrum licences from the original licensee and have accounted for them as intangible assets with indefinite lives; such subordination of licences has been approved by Innovation, Science and Economic Development Canada. The terms of payment for the obtained spectrum licences are such that the amounts owed to the original licensee are accounted for as a long-term financial liability, as set out in Note 26(f).
(b) Business acquisitions
See Note 2(b) for changes to IFRS-IASB which are not yet effective and have not yet been applied.

Telecommunications business
On January 14, 2019, we acquired a telecommunications business complementary to our existing lines of business, for consideration consisting of cash and accounts payable and accrued liabilities of $74 million and TELUS Corporation Common Shares of $38 million. The investment was made with a view to growing our managed network, cloud, security and unified communications services.

The primary factor that contributed to the recognition of goodwill was the earnings capacity of the acquired business in excess of the net tangible and intangible assets acquired (such excess arising from the acquired workforce and the benefits of acquiring an established business). Not all of the amount assigned to goodwill is expected to be deductible for income tax purposes.

Smart data solutions business
On August 12, 2019, for consideration consisting of cash and accounts payable and accrued liabilities of $135 million, we acquired a business complementary to, and with a view to growing, our existing information technology solutions business.

The primary factor that contributed to the recognition of goodwill was the earnings capacity of the acquired business in excess of the net tangible and intangible assets acquired (such excess arising from the acquired workforce and the benefits of acquiring an established business). Not all of the amount assigned to goodwill is expected to be deductible for income tax purposes.

Individually immaterial transactions
During the nine-month period ended September 30, 2019, we acquired 100% ownership of businesses complementary to our existing lines of business. The primary factor that gave rise to the recognition of goodwill was the earnings capacity of the acquired businesses in excess of the net tangible and intangible assets acquired (such excess arising from the low level of tangible assets relative to the earnings capacities of the businesses). A portion of the amounts assigned to goodwill may be deductible for income tax purposes.
notes to condensed interim consolidated financial statements  (unaudited)

**Acquisition-date fair values**

Acquisition-date fair values assigned to the assets acquired and liabilities assumed are set out in the following table:

<table>
<thead>
<tr>
<th>Assets</th>
<th>Telecommunications business</th>
<th>Smart data solutions business</th>
<th>Individually immaterial transactions</th>
<th>Total 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current assets</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cash</td>
<td>$2</td>
<td>$7</td>
<td>$4</td>
<td>$13</td>
</tr>
<tr>
<td>Accounts receivable 2</td>
<td>6</td>
<td>6</td>
<td>7</td>
<td>19</td>
</tr>
<tr>
<td>Other</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>9</td>
<td>14</td>
<td>13</td>
<td>36</td>
</tr>
<tr>
<td>Non-current assets</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Property, plant and equipment</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Owned assets</td>
<td>6</td>
<td>—</td>
<td>36</td>
<td>42</td>
</tr>
<tr>
<td>Right-of-use lease assets</td>
<td>2</td>
<td>6</td>
<td>3</td>
<td>11</td>
</tr>
<tr>
<td>Intangible assets subject to amortization 3</td>
<td>41</td>
<td>94</td>
<td>128</td>
<td>263</td>
</tr>
<tr>
<td></td>
<td>49</td>
<td>100</td>
<td>167</td>
<td>316</td>
</tr>
<tr>
<td>Total identifiable assets acquired</td>
<td>58</td>
<td>114</td>
<td>180</td>
<td>352</td>
</tr>
<tr>
<td>Liabilities</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current liabilities</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Accounts payable and accrued liabilities</td>
<td>21</td>
<td>4</td>
<td>9</td>
<td>34</td>
</tr>
<tr>
<td>Advance billings and customer deposits</td>
<td>4</td>
<td>6</td>
<td>2</td>
<td>12</td>
</tr>
<tr>
<td>Current maturities of long-term debt</td>
<td>—</td>
<td>2</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>25</td>
<td>12</td>
<td>12</td>
<td>49</td>
</tr>
<tr>
<td>Non-current liabilities</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Long-term debt</td>
<td>2</td>
<td>4</td>
<td>2</td>
<td>8</td>
</tr>
<tr>
<td>Other long-term liabilities</td>
<td>—</td>
<td>4</td>
<td>—</td>
<td>4</td>
</tr>
<tr>
<td>Deferred income taxes</td>
<td>5</td>
<td>10</td>
<td>5</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>7</td>
<td>18</td>
<td>7</td>
<td>32</td>
</tr>
<tr>
<td>Total liabilities assumed</td>
<td>32</td>
<td>30</td>
<td>19</td>
<td>81</td>
</tr>
<tr>
<td>Net identifiable assets acquired</td>
<td>26</td>
<td>84</td>
<td>161</td>
<td>271</td>
</tr>
<tr>
<td>Goodwill</td>
<td>87</td>
<td>51</td>
<td>89</td>
<td>227</td>
</tr>
<tr>
<td>Net assets acquired</td>
<td>$113</td>
<td>$135</td>
<td>$250</td>
<td>$498</td>
</tr>
</tbody>
</table>

**Acquisition effected by way of:**

| | Telecommunications business | Smart data solutions business | Individually immaterial transactions | Total 1 |
|--------------------------------|-----------------------------|-----------------------------|---------|
| Cash consideration | $63 | $116 | $182 | $361 |
| Accounts payable and accrued liabilities | 12 | 19 | 24 | 55 |
| Issue of TELUS Corporation Common Shares | 38 | — | 34 | 72 |
| Pre-existing relationship effectively settled | — | — | 10 | 10 |
| | $113 | $135 | $250 | $498 |

1 The purchase price allocations, primarily in respect of customer contracts, related customer relationships, leasehold interests and deferred income taxes, had not all been finalized as of the date of issuance of these consolidated financial statements. As is customary in business acquisition transactions, until the time of acquisition of control, we did not have full access to the books and records of the acquired businesses. Upon having sufficient time to review the books and records of the acquired businesses, we expect to finalize our purchase price allocations.

2 The fair value of accounts receivable is equal to the gross contractual amounts receivable and reflects the best estimates at the acquisition dates of the contractual cash flows expected to be collected.

3 Customer contracts and customer relationships (including those related to customer contracts) are generally expected to be amortized over periods of 8 to 10 years; software is expected to be amortized over a periods of 4 to 10 years.

**Pro forma disclosures**

The following pro forma supplemental information represents certain results of operations as if the business acquisitions noted above had been completed at the beginning of the fiscal 2019 year.

---

34 | September 30, 2019
The pro forma supplemental information is based on estimates and assumptions that are believed to be reasonable. The pro forma supplemental information is not necessarily indicative of our consolidated financial results in future periods or the actual results that would have been realized had the business acquisitions been completed at the beginning of the periods presented. The pro forma supplemental information includes incremental property, plant and equipment depreciation, intangible asset amortization, financing and other charges as a result of the acquisitions, net of the related tax effects.

(c) Business acquisition – prior period
In 2018, we acquired Medisys Health Group Inc., a business complementary to our existing lines of healthcare business. As at December 31, 2018, the purchase price allocation had not been finalized. During the six-month period ended June 30, 2019, preliminary acquisition-date values assigned for customer relationships, goodwill, advance billings and customer deposits, other long-term liabilities and deferred income taxes were increased (decreased) by $(22 million), $14 million, $(3 million), $(7 million) and $(4 million), respectively; as required by IFRS-IASB, comparative amounts have been adjusted so as to reflect those increases effective the acquisition date.

(d) ADT Security Services Canada, Inc.
On October 1, 2019, we announced that we had entered into an agreement to acquire all the issued and outstanding shares of ADT Security Services Canada, Inc., for approximately $700 million, subject to customary closing conditions including regulatory approval. Subsequently the requisite approval was obtained and the transaction was closed. As at November 7, 2019, our initial provision for the net identifiable assets acquired is in the range of $350 million - $400 million; as is customary in a business acquisition transaction, until the time of control, we did not have full access to the books and records of the acquired business. Upon having sufficient time to review the books and records of the acquired business, as well as obtaining new and additional information about the related facts and circumstances as of the acquisition date, we will adjust provisional amounts for identifiable assets acquired and liabilities assumed and thus finalize our purchase price allocation.

19 leases
See Note 2(a) for details of significant changes to IFRS-IASB which have been applied effective January 1, 2019.

We have the right-of-use of land, buildings and equipment under leases. Most of our leases for real estate that we use for office, retail or network (including wireless site) purposes typically have options to extend the lease terms, which we use to protect our investment in leasehold improvements (including wireless site equipment), to mitigate relocation risk and/or which reflect the importance of the underlying real estate right-of-use lease assets to our operations. Judgments about lease terms are determinative of the measurement of right-of-use lease assets and their associated lease liabilities. Our judgment of lease terms for leased real estate utilized in connection with our telecommunications infrastructure, more so than for any other right-of-use lease assets, routinely includes periods covered by options to extend the lease terms, as we are reasonably certain to extend such leases.

In the normal course of operations, there are future non-executory cash outflows in respect of leases to which we are potentially exposed and which are not included in our lease liabilities as at the reporting date. A significant, and increasing, portion of our wireless site lease payments have consumer price index-based price adjustments and such adjustments result in future periodic re-measurements of the lease liabilities with commensurate adjustments to the associated real estate right-of-use lease assets (and associated future depreciation amounts); these adjustments would currently represent our variable lease payments. As well, we routinely and necessarily will commit to leases which have not yet commenced.

### Condensed Interim Consolidated Financial Statements (unaudited)

<table>
<thead>
<tr>
<th>Periods ended September 30, 2019 (millions except per share amounts)</th>
<th>As reported</th>
<th>Pro forma</th>
<th>As reported</th>
<th>Pro forma</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating revenues</td>
<td>$3,697</td>
<td>$3,704</td>
<td>$10,800</td>
<td>$10,855</td>
</tr>
<tr>
<td>Net income</td>
<td>$440</td>
<td>$441</td>
<td>$1,397</td>
<td>$1,393</td>
</tr>
<tr>
<td>Net income per Common Share</td>
<td>Basic</td>
<td>$0.72</td>
<td>$0.72</td>
<td>$2.29</td>
</tr>
<tr>
<td></td>
<td>Diluted</td>
<td>$0.72</td>
<td>$0.72</td>
<td>$2.29</td>
</tr>
</tbody>
</table>

1 Operating revenues and net income for the three-month period ended September 30, 2019, include: $10 and $1, respectively, in respect of the telecommunications business; and $7 and $1, respectively, in respect of the smart data solutions business. Operating revenues and net income for the nine-month period ended September 30, 2019, include: $29 and $5, respectively, in respect of the telecommunications business; and $7 and $1, respectively, in respect of the smart data solutions business.

2 Pro forma amounts for the three-month and nine-month periods ended September 30, 2019, reflect the acquired businesses. The results of the acquired businesses have been included in our Consolidated statements of income and other comprehensive income effective the dates of acquisition.
As mandated by Innovation, Science and Economic Development Canada, telecommunications companies are obligated to allow, on their real estate assets owned, on their real estate right-of-use lease assets and/or on their owned-equipment situated on real estate right-of-use lease assets, competitors to co-locate telecommunications infrastructure equipment. Of our real estate right-of-use lease assets used for purposes of situating telecommunications infrastructure equipment, approximately one-fifth have subleases which we, as lessor, account for as operating leases.

Maturity analyses of lease liabilities are set out in Note 4(b) and Note 26(h); the period interest expense in respect thereof is set out in Note 9. The additions to, the depreciation charges for, and the carrying amount of, right-of-use lease assets are set out in Note 17. We have not currently elected to exclude low-value and short-term leases from lease accounting.

<table>
<thead>
<tr>
<th>Periods ended September 30 (millions)</th>
<th>Three months</th>
<th>Nine months</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2019</td>
<td>2018</td>
</tr>
<tr>
<td><strong>Income from subleasing right-of-use lease assets</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Co-location sublet revenue included in operating service revenues</td>
<td>$5</td>
<td>$5</td>
</tr>
<tr>
<td><strong>Lease payments</strong></td>
<td>$80</td>
<td>$75</td>
</tr>
</tbody>
</table>

20 other long-term assets

<table>
<thead>
<tr>
<th>As at (millions)</th>
<th>Note</th>
<th>September 30, 2019</th>
<th>December 31, 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pension assets</td>
<td></td>
<td>$503</td>
<td>$503</td>
</tr>
<tr>
<td>Unbilled customer finance receivables</td>
<td>4(a)</td>
<td>124</td>
<td>47</td>
</tr>
<tr>
<td>Costs incurred to obtain or fulfill a contract with a customer</td>
<td></td>
<td>106</td>
<td>110</td>
</tr>
<tr>
<td>Portfolio investments 1</td>
<td></td>
<td>68</td>
<td>70</td>
</tr>
<tr>
<td>Prepaid maintenance</td>
<td></td>
<td>45</td>
<td>55</td>
</tr>
<tr>
<td>Real estate joint venture advances</td>
<td>21(c)</td>
<td>96</td>
<td>69</td>
</tr>
<tr>
<td>Real estate joint ventures</td>
<td>21(c)</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Derivative assets</td>
<td>4(d)</td>
<td>102</td>
<td>54</td>
</tr>
<tr>
<td>Other</td>
<td></td>
<td>82</td>
<td>73</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td>$1,131</td>
<td>$986</td>
</tr>
</tbody>
</table>

1 Fair value measured at reporting date using significant other observable inputs (Level 2).

The costs incurred to obtain and fulfill contracts with customers are set out in the following table:

<table>
<thead>
<tr>
<th>Periods ended September 30, 2019 (millions)</th>
<th>Costs incurred to</th>
<th>Three months</th>
<th>Nine months</th>
</tr>
</thead>
<tbody>
<tr>
<td>Obtain contracts with customers</td>
<td>Fulfill contracts with customers</td>
<td>Total</td>
<td>Obtain contracts with customers</td>
</tr>
<tr>
<td>Balance, beginning of period</td>
<td>$337</td>
<td>$15</td>
<td>$352</td>
</tr>
<tr>
<td>Additions</td>
<td>75</td>
<td>1</td>
<td>76</td>
</tr>
<tr>
<td>Amortization</td>
<td>(76)</td>
<td>(1)</td>
<td>(77)</td>
</tr>
<tr>
<td>Balance, end of period</td>
<td>$336</td>
<td>$15</td>
<td>$351</td>
</tr>
<tr>
<td>Current 1</td>
<td>$239</td>
<td>$6</td>
<td>$245</td>
</tr>
<tr>
<td>Non-current</td>
<td>97</td>
<td>9</td>
<td>106</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>$336</td>
<td>$15</td>
<td>$351</td>
</tr>
</tbody>
</table>

1 Presented on the Consolidated statements of financial position in prepaid expenses.

21 real estate joint ventures

(a) General

In 2013, we partnered, as equals, with two arm’s-length parties in a residential, retail and commercial real estate redevelopment project, TELUS Sky, in Calgary, Alberta. The new-build tower, scheduled for completion in 2020, is to be built to the LEED Platinum standard.

In 2011, we partnered, as equals, with an arm’s-length party in a residential condominium, retail and commercial real estate redevelopment project, TELUS Garden, in Vancouver, British Columbia. TELUS is a tenant in TELUS Garden, which is now our global headquarters. During the year ended December 31, 2018, the real estate joint venture sold the income-producing properties and the related net assets.
(b) Real estate joint ventures – summarized financial information

<table>
<thead>
<tr>
<th>ASSETS</th>
<th>September 30, 2019</th>
<th>December 31, 2018</th>
<th>As at (millions)</th>
<th>September 30, 2019</th>
<th>December 31, 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current assets</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cash and temporary investments, net</td>
<td>$17</td>
<td>$11</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Escrowed deposits</td>
<td>—</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td>2</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>19</td>
<td>17</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Non-current assets</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Investment property under development</td>
<td>325</td>
<td>256</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td>4</td>
<td>—</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>329</td>
<td>256</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| LIABILITIES AND OWNERS’ EQUITY | September 30, 2019 | December 31, 2018 | | | |
| Current liabilities | | | | | |
| Accounts payable and accrued liabilities | $10 | $19 | | | |
| Construction holdback liabilities | 15 | 15 | | | |
| Construction credit facilities | 288 | — | | | |
| | 313 | 34 | | | |
| Non-current liabilities | | | | | |
| Construction credit facilities | — | 207 | | | |
| Other | 4 | — | | | |
| | 4 | 207 | | | |
| Owners’ equity | | | | | |
| TELUS | 13 | 13 | | | |
| Other partners | 18 | 19 | | | |
| | 31 | 32 | | | |

The equity amounts recorded by the real estate joint venture differ from those recorded by us by the amount of the deferred gains on our real estate contributed and the valuation provision we have recorded in excess of that recorded by the real estate joint venture.

Revenue


As the real estate joint ventures are partnerships, no provision for income taxes of the partners is made in determining the real estate joint ventures’ net income and comprehensive income.

(c) Our real estate joint ventures activity

Our real estate joint ventures investment activity is set out in the following table.

<table>
<thead>
<tr>
<th>Periods ended September 30 (millions)</th>
<th>Three months</th>
<th>Nine months</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revenue</td>
<td></td>
<td></td>
</tr>
<tr>
<td>From investment property</td>
<td>$—</td>
<td>$5</td>
</tr>
<tr>
<td>Other operating income</td>
<td>$—</td>
<td>$345</td>
</tr>
<tr>
<td>Depreciation and amortization</td>
<td>$—</td>
<td>$1</td>
</tr>
<tr>
<td>Interest expense</td>
<td>$—</td>
<td>$2</td>
</tr>
<tr>
<td>Net income and comprehensive income</td>
<td>$—</td>
<td>$345</td>
</tr>
</tbody>
</table>

The real estate joint ventures capitalized $3 (2018 – $2) and $9 (2018 – $6), respectively, of financing costs.

As the real estate joint ventures are partnerships, no provision for income taxes of the partners is made in determining the real estate joint ventures’ net income and comprehensive income.

<table>
<thead>
<tr>
<th>Loans and receivables</th>
<th>Equity</th>
<th>Total</th>
<th>Loans and receivables</th>
<th>Equity</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Related to real estate joint ventures’ statements of income and other comprehensive income attributable to us</td>
<td>$—</td>
<td>$—</td>
<td>$—</td>
<td>$—</td>
<td>$171</td>
</tr>
<tr>
<td>Related to real estate joint ventures’ statements of financial position</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Items not affecting currently reported cash flows</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Construction credit facilities financing costs charged by us and other (Note 7)</td>
<td>1</td>
<td>—</td>
<td>1</td>
<td>1</td>
<td>—</td>
</tr>
<tr>
<td>Cash flows in the current reporting period</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Construction credit facilities</td>
<td>10</td>
<td>—</td>
<td>10</td>
<td>6</td>
<td>—</td>
</tr>
<tr>
<td>Financing costs paid to us</td>
<td>(1)</td>
<td>—</td>
<td>(1)</td>
<td>(1)</td>
<td>—</td>
</tr>
<tr>
<td>Funds repaid to us and earnings distributed</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>(180)</td>
<td>(180)</td>
</tr>
<tr>
<td>Net increase</td>
<td>10</td>
<td>—</td>
<td>10</td>
<td>6</td>
<td>(9)</td>
</tr>
<tr>
<td>Real estate joint ventures carrying amounts</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Balance, beginning of period</td>
<td>86</td>
<td>5</td>
<td>91</td>
<td>60</td>
<td>13</td>
</tr>
<tr>
<td>Balance, end of period</td>
<td>$96</td>
<td>$5</td>
<td>$101</td>
<td>$66</td>
<td>$4</td>
</tr>
</tbody>
</table>

Notes to condensed interim consolidated financial statements (unaudited)
notes to condensed interim consolidated financial statements (unaudited)

<table>
<thead>
<tr>
<th>Nine-month periods ended September 30 (millions)</th>
<th>2019</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Loans and receivables ¹</td>
<td>Equity²</td>
<td>Total</td>
</tr>
<tr>
<td>Related to real estate joint ventures’ statements</td>
<td>$ —</td>
<td>$ —</td>
</tr>
<tr>
<td>Comprehensive income attributable to us ³</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Related to real estate joint ventures’ statements</td>
<td>$ —</td>
<td>$ —</td>
</tr>
<tr>
<td>of financial position</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Items not affecting currently reported cash flows</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Construction credit facilities financing costs charged by us and other (Note 7)</td>
<td>3</td>
<td>—</td>
</tr>
<tr>
<td>Cash flows in the current reporting period</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Construction credit facilities financing costs charged by us and other (Note 7)</td>
<td>27</td>
<td>—</td>
</tr>
<tr>
<td>Financing costs paid to us</td>
<td>(3)</td>
<td>—</td>
</tr>
<tr>
<td>Funds repaid to us and earnings distributed</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Net increase</td>
<td>27</td>
<td>—</td>
</tr>
<tr>
<td>Real estate joint ventures carrying amounts</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Balance, beginning of period</td>
<td>69</td>
<td>5</td>
</tr>
<tr>
<td>Balance, end of period</td>
<td>$ 96</td>
<td>$ 5</td>
</tr>
</tbody>
</table>

1 Loans and receivables are included in our Consolidated statements of financial position as Real estate joint venture advances and are comprised of advances under construction credit facilities (see (d)). 
2 We account for our interests in the real estate joint ventures using the equity method of accounting. 
3 As the real estate joint ventures are partnerships, no provision for income taxes of the partners is made in determining the real estate joint ventures’ net income and comprehensive income.

Prior to the sale of the TELUS Garden income-producing properties, during the three-month and nine-month periods ended September 30, 2018, the TELUS Garden real estate joint venture recognized $1 million and $7 million, respectively, of revenue from our TELUS Garden office tenancy; of this amount, one-half was due to our economic interest in the real estate joint venture and one-half was due to our partner’s economic interest in the real estate joint venture. We have entered into a lease agreement with the TELUS Sky real estate joint venture; for lease accounting purposes, the lease commenced during the three-month period ended March 31, 2019.

(d) Commitments and contingent liabilities

Construction commitments

The TELUS Sky real estate joint venture is expected to spend a total of approximately $450 million (December 31, 2018 – $400 million) on the construction of a mixed-use tower. As at September 30, 2019, the real estate joint venture’s construction-related contractual commitments were approximately $19 million through to 2020 (December 31, 2018 – $35 million through to 2019).

Construction credit facilities

As at September 30, 2019, the TELUS Sky real estate joint venture had a credit agreement, the maturity of which was extended to October 31, 2019 (an extension from August 31, 2019), with Canadian financial institutions (as 66-2/3% lender) and TELUS Corporation (as 33-1/3% lender) to provide $342 million of construction financing for the project; subsequent to September 30, 2019, the credit agreement was extended to August 31, 2021. The construction credit facilities contain customary real estate construction financing representations, warranties and covenants and are secured by demand debentures constituting first fixed and floating charge mortgages over the underlying real estate assets. The construction credit facilities are available by way of bankers’ acceptance or prime loan and bear interest at rates in line with similar construction financing facilities.

<table>
<thead>
<tr>
<th>As at (millions)</th>
<th>Note</th>
<th>September 30, 2019</th>
<th>December 31, 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction credit facilities commitment – TELUS Corporation</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Undrawn</td>
<td></td>
<td>$ 18</td>
<td>$ 45</td>
</tr>
<tr>
<td>Advances</td>
<td></td>
<td>96</td>
<td>69</td>
</tr>
<tr>
<td>Construction credit facilities commitment – other</td>
<td></td>
<td>114</td>
<td>114</td>
</tr>
<tr>
<td></td>
<td></td>
<td>228</td>
<td>226</td>
</tr>
<tr>
<td></td>
<td></td>
<td>$ 342</td>
<td>$ 342</td>
</tr>
</tbody>
</table>
22 short-term borrowings

On July 26, 2002, one of our subsidiaries, TELUS Communications Inc., entered into an agreement with an arm’s-length securitization trust associated with a major Schedule I bank under which it is able to sell an interest in certain trade receivables up to a maximum of $500 million (December 31, 2018 – $500 million). The term of this revolving-period securitization agreement ends December 31, 2021, and it requires minimum cash proceeds of $100 million from monthly sales of interests in certain trade receivables. TELUS Communications Inc. is required to maintain a credit rating of at least BB (December 31, 2018 – BB) from DBRS Limited or the securitization trust may require the sale program to be wound down prior to the end of the term.

Sales of trade receivables in securitization transactions are recognized as collateralized short-term borrowings and thus do not result in our de-recognition of the trade receivables sold. When we sell our trade receivables, we retain reserve accounts, which are retained interests in the securitized trade receivables, and servicing rights. As at September 30, 2019, we had sold to the trust (but continued to recognize) trade receivables of $126 million (December 31, 2018 – $120 million). Short-term borrowings of $100 million (December 31, 2018 – $100 million) are comprised of amounts advanced to us by the arm’s-length securitization trust pursuant to the sale of trade receivables.

As at September 30, 2019, TELUS Corporation has received a commitment letter for a $750 million unsecured, single-drawdown, non-revolving credit facility, maturing one year from the completion of documentation, which is to be used for general corporate purposes. The facility will be available upon completion of documentation and satisfaction of conditions precedent; once available, we will have 60 days to draw upon the facility after which time the undrawn committed amount will be cancelled. As at November 7, 2019, documentation had not been completed.

The balance of short-term borrowings (if any) is comprised of amounts drawn on our bilateral bank facilities.

23 accounts payable and accrued liabilities

<table>
<thead>
<tr>
<th></th>
<th>September 30, 2019</th>
<th>December 31, 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accrued liabilities</td>
<td>$1,142</td>
<td>$1,159</td>
</tr>
<tr>
<td>Payroll and other employee-related liabilities</td>
<td>430</td>
<td>429</td>
</tr>
<tr>
<td>Restricted share units liability</td>
<td>87</td>
<td>72</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1,659</td>
</tr>
<tr>
<td>Trade accounts payable</td>
<td>923</td>
<td>686</td>
</tr>
<tr>
<td>Interest payable</td>
<td>162</td>
<td>157</td>
</tr>
<tr>
<td>Other</td>
<td>100</td>
<td>67</td>
</tr>
<tr>
<td></td>
<td></td>
<td>$2,844</td>
</tr>
<tr>
<td></td>
<td></td>
<td>$2,570</td>
</tr>
</tbody>
</table>

24 advance billings and customer deposits

<table>
<thead>
<tr>
<th></th>
<th>September 30, 2019</th>
<th>December 31, 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advance billings</td>
<td>$522</td>
<td>$538</td>
</tr>
<tr>
<td>Deferred customer activation and connection fees</td>
<td>9</td>
<td>10</td>
</tr>
<tr>
<td>Customer deposits</td>
<td>13</td>
<td>13</td>
</tr>
<tr>
<td>Contract liabilities</td>
<td>544</td>
<td>561</td>
</tr>
<tr>
<td>Other</td>
<td>105</td>
<td>95</td>
</tr>
<tr>
<td></td>
<td></td>
<td>$649</td>
</tr>
<tr>
<td></td>
<td></td>
<td>$656</td>
</tr>
</tbody>
</table>

Contract liabilities represent our future performance obligations to customers in respect of services and/or equipment and for which we have received consideration from the customer or for which an amount is due from the customer. Our contract liability balances, and the changes in those balances, are set out in the following table:
Periods ended September 30 (millions)

<table>
<thead>
<tr>
<th>Note</th>
<th>Three months</th>
<th>Nine months</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2019</td>
<td>2018</td>
</tr>
<tr>
<td>Balance, beginning of period</td>
<td>$ 811</td>
<td>$ 780</td>
</tr>
<tr>
<td>Revenue deferred in previous period and recognized in current period</td>
<td>(621)</td>
<td>(636)</td>
</tr>
<tr>
<td>Net additions arising from operations</td>
<td>592</td>
<td>630</td>
</tr>
<tr>
<td>Additions arising from business acquisitions</td>
<td>18(b)</td>
<td>10</td>
</tr>
<tr>
<td>Balance, end of period</td>
<td>$ 792</td>
<td>$ 783</td>
</tr>
</tbody>
</table>

Current

Non-current

Deferred revenues | 68 | 75 |
Deferred customer activation and connection fees | 14 | 16 |

$ 792 | $ 783 |

Reconciliation of contract liabilities presented in the consolidated statements of financial position – current

Gross contract liabilities | $ 710 | $ 692 |
Reclassification to contract assets for contracts with contract liabilities less than contract assets | (160) | (149) |
Reclassification from contract assets for contracts with contract assets less than contract liabilities | (6) | (5) |

$ 544 | $ 538 |

25 provisions

(millions)

<table>
<thead>
<tr>
<th></th>
<th>Asset retirement obligation</th>
<th>Employee-related</th>
<th>Written put options</th>
<th>Other</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Note</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>As at July 1, 2019</td>
<td>$ 339</td>
<td>$ 61</td>
<td>$ 275</td>
<td>$ 108</td>
<td>$ 783</td>
</tr>
<tr>
<td>Additions</td>
<td>—</td>
<td>12</td>
<td>—</td>
<td>42</td>
<td>54</td>
</tr>
<tr>
<td>Reversal</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Use</td>
<td>(1)</td>
<td>(14)</td>
<td>—</td>
<td>(22)</td>
<td>(37)</td>
</tr>
<tr>
<td>Interest effect</td>
<td>3</td>
<td>—</td>
<td>3</td>
<td>—</td>
<td>6</td>
</tr>
<tr>
<td>Effects of foreign exchange, net</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>(1)</td>
<td>(1)</td>
</tr>
<tr>
<td>As at September 30, 2019</td>
<td>$ 341</td>
<td>$ 59</td>
<td>$ 278</td>
<td>$ 127</td>
<td>$ 805</td>
</tr>
<tr>
<td>As at January 1, 2019</td>
<td>$ 336</td>
<td>$ 88</td>
<td>$ 282</td>
<td>$ 151</td>
<td>$ 857</td>
</tr>
<tr>
<td>As previously reported</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>(57)</td>
<td>(57)</td>
</tr>
<tr>
<td>IFRS 16, Leases transitional amount</td>
<td>2(c)</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>As adjusted</td>
<td>336</td>
<td>88</td>
<td>282</td>
<td>94</td>
<td>800</td>
</tr>
<tr>
<td>Additions</td>
<td>—</td>
<td>47</td>
<td>—</td>
<td>87</td>
<td>134</td>
</tr>
<tr>
<td>Reversal</td>
<td>—</td>
<td>—</td>
<td>(1)</td>
<td>(3)</td>
<td>(4)</td>
</tr>
<tr>
<td>Use</td>
<td>(3)</td>
<td>(76)</td>
<td>—</td>
<td>(51)</td>
<td>(130)</td>
</tr>
<tr>
<td>Interest effect</td>
<td>8</td>
<td>—</td>
<td>9</td>
<td>—</td>
<td>17</td>
</tr>
<tr>
<td>Effects of foreign exchange, net</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>(12)</td>
<td>(12)</td>
</tr>
<tr>
<td>As at September 30, 2019</td>
<td>$ 341</td>
<td>$ 59</td>
<td>$ 278</td>
<td>$ 127</td>
<td>$ 805</td>
</tr>
<tr>
<td>Current</td>
<td>$ 5</td>
<td>$ 54</td>
<td>$ —</td>
<td>$ 34</td>
<td>$ 93</td>
</tr>
<tr>
<td>Non-current</td>
<td>336</td>
<td>5</td>
<td>278</td>
<td>93</td>
<td>712</td>
</tr>
<tr>
<td>As at September 30, 2019</td>
<td>$ 341</td>
<td>$ 59</td>
<td>$ 278</td>
<td>$ 127</td>
<td>$ 805</td>
</tr>
</tbody>
</table>

Asset retirement obligation

We establish provisions for liabilities associated with the retirement of property, plant and equipment when those obligations result from the acquisition, construction, development and/or normal operation of the assets. We expect that the cash outflows in respect of the balance accrued as at the financial statement date will occur proximate to the dates these assets are retired.

Employee-related

The employee-related provisions are largely in respect of restructuring activities (as discussed further in Note 16(b)). The timing of the cash outflows in respect of the balance accrued as at the financial statement date is substantially short-term in nature.

Written put options

In connection with certain business acquisitions, we have established provisions for written put options in respect of non-controlling interests. Provisions for written put options are determined based on the net present value of estimated
future earnings results and require us to make key economic assumptions about the future. No cash outflows for the written put options are expected prior to their initial exercisability in 2020.

Other

The provisions for other include: legal claims; non-employee-related restructuring activities; and contract termination costs and onerous contracts related to business acquisitions. Other than as set out following, we expect that the cash outflows in respect of the balance accrued as at the financial statement date will occur over an indeterminate multi-year period.

As discussed further in Note 29, we are involved in a number of legal claims and we are aware of certain other possible legal claims. In respect of legal claims, we establish provisions, when warranted, after taking into account legal assessments, information presently available, and the expected availability of recourse. The timing of cash outflows associated with legal claims cannot be reasonably determined.

In connection with business acquisitions, we have established provisions for contingent consideration, contract termination costs and onerous contracts acquired.

26  long-term debt

(a) Details of long-term debt

<table>
<thead>
<tr>
<th>As at (millions)</th>
<th>September 30,</th>
<th>December 31,</th>
</tr>
</thead>
<tbody>
<tr>
<td>Telus Corporation notes</td>
<td>$13,548</td>
<td>$12,186</td>
</tr>
<tr>
<td>Telus Corporation commercial paper</td>
<td>—</td>
<td>774</td>
</tr>
<tr>
<td>Telus Communications Inc. debentures</td>
<td>621</td>
<td>620</td>
</tr>
<tr>
<td>Telus International (Cda) Inc. credit facility</td>
<td>399</td>
<td>419</td>
</tr>
<tr>
<td>Other</td>
<td>270</td>
<td>—</td>
</tr>
<tr>
<td>Total long-term debt</td>
<td>15,598</td>
<td>13,999</td>
</tr>
</tbody>
</table>

(b) Telus Corporation notes

The notes are senior unsecured and unsubordinated obligations and rank equally in right of payment with all of our existing and future unsecured unsubordinated obligations, are senior in right of payment to all of our existing and future subordinated indebtedness, and are effectively subordinated to all existing and future obligations of, or guaranteed by, our subsidiaries. The indentures governing the notes contain certain covenants that, among other things, place limitations on our ability, and the ability of certain of our subsidiaries, to: grant security in respect of indebtedness; enter into sale-leaseback transactions; and incur new indebtedness.

<table>
<thead>
<tr>
<th>Series 1</th>
<th>Issued</th>
<th>Maturity</th>
<th>Issue price</th>
<th>Effective interest rate 2</th>
<th>Principal face amount</th>
<th>Redemption present value spread</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.05% Notes, Series CH</td>
<td>July 2010</td>
<td>July 2020 3</td>
<td>$997.44</td>
<td>5.08%</td>
<td>$1.0 billion</td>
<td>SNIL</td>
</tr>
<tr>
<td>3.35% Notes, Series CJ</td>
<td>December 2012</td>
<td>March 2023</td>
<td>$986.83</td>
<td>3.38%</td>
<td>$500 million</td>
<td>$500 million</td>
</tr>
<tr>
<td>3.35% Notes, Series CK</td>
<td>April 2013</td>
<td>April 2024</td>
<td>$994.35</td>
<td>3.41%</td>
<td>$1.1 billion</td>
<td>$1.1 billion</td>
</tr>
<tr>
<td>4.40% Notes, Series CL</td>
<td>April 2013</td>
<td>April 2043</td>
<td>$997.68</td>
<td>4.41%</td>
<td>$600 million</td>
<td>$600 million</td>
</tr>
<tr>
<td>3.60% Notes, Series CM</td>
<td>November 2013</td>
<td>January 2021</td>
<td>$997.15</td>
<td>3.65%</td>
<td>$400 million</td>
<td>$400 million</td>
</tr>
<tr>
<td>5.15% Notes, Series CN</td>
<td>November 2013</td>
<td>November 2043</td>
<td>$995.00</td>
<td>5.18%</td>
<td>$400 million</td>
<td>$400 million</td>
</tr>
<tr>
<td>3.20% Notes, Series CO</td>
<td>April 2014</td>
<td>April 2021</td>
<td>$997.39</td>
<td>3.24%</td>
<td>$500 million</td>
<td>$500 million</td>
</tr>
<tr>
<td>4.85% Notes, Series CP</td>
<td>Multiple 6</td>
<td>April 2044</td>
<td>$987.91 6</td>
<td>4.93% 6</td>
<td>$500 million 6</td>
<td>$900 million 6</td>
</tr>
<tr>
<td>3.75% Notes, Series CQ</td>
<td>September 2014</td>
<td>January 2025</td>
<td>$997.75</td>
<td>3.78%</td>
<td>$800 million</td>
<td>$800 million</td>
</tr>
<tr>
<td>4.75% Notes, Series CR</td>
<td>September 2014</td>
<td>January 2045</td>
<td>$992.91</td>
<td>4.80%</td>
<td>$400 million</td>
<td>$400 million</td>
</tr>
<tr>
<td>2.35% Notes, Series CT</td>
<td>March 2015</td>
<td>March 2022</td>
<td>$997.31</td>
<td>2.39%</td>
<td>$1.0 billion</td>
<td>$1.0 billion</td>
</tr>
<tr>
<td>4.40% Notes, Series CU</td>
<td>March 2015</td>
<td>January 2046</td>
<td>$999.72</td>
<td>4.40%</td>
<td>$500 million</td>
<td>$500 million</td>
</tr>
<tr>
<td>3.75% Notes, Series CV</td>
<td>December 2015</td>
<td>March 2026</td>
<td>$992.14</td>
<td>3.84%</td>
<td>$600 million</td>
<td>$600 million</td>
</tr>
<tr>
<td>2.80% U.S. Dollar Notes 7</td>
<td>September 2016</td>
<td>February 2027</td>
<td>US$991.89</td>
<td>2.89%</td>
<td>US$600 million</td>
<td>US$600 million</td>
</tr>
<tr>
<td>3.70% U.S. Dollar Notes 9</td>
<td>March 2017</td>
<td>September 2027</td>
<td>US$998.95</td>
<td>3.71%</td>
<td>US$500 million</td>
<td>US$500 million</td>
</tr>
<tr>
<td>4.70% Notes, Series CW</td>
<td>Multiple 10</td>
<td>March 2048</td>
<td>$998.06 10</td>
<td>4.71% 10</td>
<td>$325 million 10</td>
<td>$475 million 10</td>
</tr>
<tr>
<td>3.625% Notes, Series CX</td>
<td>February 2018</td>
<td>March 2028</td>
<td>$998.49</td>
<td>3.75%</td>
<td>$600 million</td>
<td>$600 million</td>
</tr>
</tbody>
</table>
notes to condensed interim consolidated financial statements  
(unaudited)

<table>
<thead>
<tr>
<th>Series</th>
<th>Issued</th>
<th>Maturity</th>
<th>Issue price</th>
<th>Effective interest rate</th>
<th>Originally issued</th>
<th>Outstanding at financial statement date</th>
<th>Basis points</th>
<th>Cessation date</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.60% U.S. Dollar Notes 11</td>
<td>June 2018</td>
<td>November 2048</td>
<td>US$987.60</td>
<td>4.68%</td>
<td>US$750 million</td>
<td>US$750 million</td>
<td>25 ¹</td>
<td>May 18, 2048</td>
</tr>
<tr>
<td>3.30% Notes, Series CY 2</td>
<td>April 2019</td>
<td>May 2029</td>
<td>$991.75</td>
<td>3.40%</td>
<td>$1.0 billion</td>
<td>$1.0 billion</td>
<td>43.5 ²</td>
<td>Feb. 2, 2029</td>
</tr>
<tr>
<td>2.75% Notes, Series CZ 3</td>
<td>July 2019</td>
<td>July 2026</td>
<td>$998.73</td>
<td>2.77%</td>
<td>$800 million</td>
<td>$800 million</td>
<td>33 ⁵</td>
<td>May 8, 2026</td>
</tr>
</tbody>
</table>

1 Interest is payable semi-annually. The notes require us to make an offer to repurchase the notes at a price equal to 101% of their principal amount plus accrued and unpaid interest to the date of repurchase upon the occurrence of a change in control triggering event, as defined in the supplemental trust indenture.
2 The effective interest rate is that which the notes would yield to an initial debt holder if held to maturity.
3 On May 31, 2019, we exercised our right to early redeem, on July 23, 2019, $650 million of our 5.05% Notes, Series CH. On July 3, 2019, we exercised our right to early redeem, on August 7, 2019, the remaining $350 million not called for redemption on May 31, 2019. The long-term debt prepayment premium recorded in the three-month period ended September 30, 2019, was $29 million before income taxes.
4 The notes were redeemable at our option, in whole at any time, or in part from time to time, on not fewer than 30 and not more than 60 days’ prior notice. The redemption price was equal to the greater of (i) the present value of the notes discounted at the Government of Canada yield plus the redemption present value spread, or (ii) 100% of the principal amount thereof. In addition, accrued and unpaid interest was paid to the date fixed for redemption.
5 At any time prior to the respective maturity dates set out in the table, the notes are redeemable at our option, in whole at any time, or in part from time to time, on not fewer than 30 and not more than 60 days’ prior notice. The redemption price is equal to the greater of (i) the present value of the notes discounted at the Government of Canada yield plus the redemption present value spread calculated over the period to maturity, or (ii) 100% of the principal amount thereof. In addition, accrued and unpaid interest, if any, will be paid to the date fixed for redemption. On or after the respective redemption present value spread cessation dates set out in the table, the notes are redeemable at our option, in whole but not in part, on not fewer than 30 and not more than 60 days’ prior notice, at redemption prices equal to 100% of the principal amounts thereof.
6 $500 million of 4.85% Notes, Series CP were issued in April 2014 at an issue price of $998.74 and an effective interest rate of 4.86%. This series of notes was reopened in December 2015 and a further $400 million of notes were issued at an issue price of $974.38 and an effective interest rate of 5.02%.
7 We have entered into a foreign exchange derivative (a cross currency interest rate exchange agreement) that effectively converted the principal payments and interest obligations to Canadian dollar obligations with a fixed interest rate of 2.95% and an issued and outstanding amount of $792 million (reflecting a fixed exchange rate of $1.3205).
8 At any time prior to the respective maturity dates set out in the table, the notes are redeemable at our option, in whole at any time, or in part from time to time, on not fewer than 30 and not more than 60 days’ prior notice. The redemption price was equal to the greater of (i) the present value of the notes discounted at the U.S. Adjusted Treasury Rate plus the redemption present value spread calculated over the period to the redemption present value spread cessation date, or (ii) 100% of the principal amount thereof. In addition, accrued and unpaid interest, if any, will be paid to the date fixed for redemption. On or after the respective redemption present value spread cessation dates set out in the table, the notes are redeemable at our option, in whole but not in part, on not fewer than 30 and not more than 60 days’ prior notice, at redemption prices equal to 100% of the principal amounts thereof.
9 We have entered into a foreign exchange derivative (a cross currency interest rate exchange agreement) that effectively converted the principal payments and interest obligations to Canadian dollar obligations with a fixed interest rate of 3.41% and an issued and outstanding amount of $667 million (reflecting a fixed exchange rate of $1.3348).
10 $325 million of 4.70% Notes, Series CW were issued in March 2017 at an issue price of $990.65 and an effective interest rate of 4.76%. This series of notes was reopened in February 2018 and a further $150 million of notes were issued at an issue price of $1,014.11 and an effective interest rate of 4.61%.
11 We have entered into a foreign exchange derivative (a cross currency interest rate exchange agreement) that effectively converted the principal payments and interest obligations to Canadian dollar obligations with a fixed interest rate of 4.41% and an issued and outstanding amount of $974 million (reflecting a fixed exchange rate of $1.2985).
12 We have entered into a foreign exchange derivative (a cross currency interest rate exchange agreement) that effectively converted the principal payments and interest obligations to Canadian dollar obligations with a fixed interest rate of 4.27% and an issued and outstanding amount of $672 million (reflecting a fixed exchange rate of $1.3435).

(c) TELUS Corporation commercial paper
TELUS Corporation has an unsecured commercial paper program, which is backedstop by our $2.25 billion syndicated credit facility (see (d)) and is to be used for general corporate purposes, including capital expenditures and investments. This program enables us to issue commercial paper, subject to conditions related to debt ratings, up to a maximum aggregate amount at any one time of $1.4 billion (December 31, 2018 – $1.4 billion). Foreign currency forward contracts are used to manage currency risk arising from issuing commercial paper denominated in U.S. dollars. Commercial paper debt is due within one year and is classified as a current portion of long-term debt, as the amounts are fully supported, and we expect that they will continue to be supported, by the revolving credit facility, which has no repayment requirements within the next year. As at September 30, 2019, we had $760 million of commercial paper outstanding, all of which was denominated in U.S. dollars (US$574 million), with an effective weighted average interest rate of 2.44%, maturing through December 2019.

(d) TELUS Corporation credit facility
As at September 30, 2019, TELUS Corporation had an unsecured revolving $2.25 billion bank credit facility, expiring on May 31, 2023 (December 31, 2018 – expiring on May 31, 2023), with a syndicate of financial institutions, which is to be used for general corporate purposes, including the backstopping of commercial paper.
TELUS Corporation’s credit facility bears interest at prime rate, U.S. Dollar Base Rate, a bankers’ acceptance rate or London interbank offered rate (LIBOR) (all such terms as used or defined in the credit facility), plus applicable margins. The credit facility contains customary representations, warranties and covenants, including two financial quarter-end ratio tests. These tests are whether net debt to operating cash flow ratio must not exceed 4.00:1.00 and operating cash flow to interest expenditure ratio must not be less than 2.00:1.00, all as defined in the credit facility.

Continued access to TELUS Corporation’s credit facility is not contingent upon TELUS Corporation maintaining a specific credit rating.

<table>
<thead>
<tr>
<th>As at (millions)</th>
<th>September 30, 2019</th>
<th>December 31, 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Net available</td>
<td>$1,490</td>
<td>$1,476</td>
</tr>
<tr>
<td>Backstop of commercial paper</td>
<td>760</td>
<td>774</td>
</tr>
<tr>
<td>Gross available</td>
<td>$2,250</td>
<td>$2,250</td>
</tr>
</tbody>
</table>

We had $182 million of letters of credit outstanding as at September 30, 2019 (December 31, 2018 – $184 million), issued under various uncommitted facilities; such letter of credit facilities are in addition to the ability to provide letters of credit pursuant to our committed bank credit facility. We had arranged $880 million of incremental letters of credit to allow us to participate in Innovation, Science and Economic Development Canada’s 600 MHz wireless spectrum auction that was held in March-April 2019, as discussed further in Note 18(a). Concurrent with funding the purchase of the spectrum licences these incremental letters of credit were extinguished.

(e) TELUS International (Cda) Inc. credit facility

As at September 30, 2019, TELUS International (Cda) Inc. had a bank credit facility, secured by its assets, expiring on December 20, 2022, with a syndicate of financial institutions. The credit facility is comprised of a US$350 million (December 31, 2018 – US$350 million) revolving component and an amortizing US$120 million (December 31, 2018 – US$120 million) term loan component. The credit facility is non-recourse to TELUS Corporation. The outstanding revolving component had a weighted average interest rate of 3.49% as at September 30, 2019.

<table>
<thead>
<tr>
<th>As at (millions)</th>
<th>September 30, 2019</th>
<th>December 31, 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revolving component</td>
<td>Term loan component ¹</td>
<td>Total</td>
</tr>
<tr>
<td>Outstanding</td>
<td>197</td>
<td>108</td>
</tr>
</tbody>
</table>

¹ We have entered into a receive-floating interest rate, pay-fixed interest rate swap agreement that effectively converts our interest obligations on the debt to a fixed rate of 2.64%.

TELUS International (Cda) Inc.’s credit facility bears interest at prime rate, U.S. Dollar Base Rate, a bankers’ acceptance rate or London interbank offered rate (LIBOR) (all such terms as used or defined in the credit facility), plus applicable margins. The credit facility contains customary representations, warranties and covenants, including two financial quarter-end ratio tests. These tests are that TELUS International (Cda) Inc.’s net debt to operating cash flow ratio must not exceed 3.25:1.00 and its operating cash flow to debt service and schedules principal repayment ratio must not be less than 1.50:1.00, all as defined in the credit facility.

The term loan is subject to an amortization schedule which requires that 5% of the principal advanced be repaid each year of the term of the agreement, with the balance due at maturity.

(f) Other

Other liabilities bear interest at 3.29%, are secured by the associated AWS-4 spectrum licences, and are subject to an amortization schedule which results in the principal being repaid over the period to maturity, March 31, 2035.

(g) Lease liabilities

See Note 2(a) for details of significant changes to IFRS-IASB which have been applied effective January 1, 2019.

Lease liabilities are subject to amortization schedules, which results in the principal being repaid over various periods, including reasonably expected renewals. The weighted average interest rate on lease liabilities was approximately 4.45% as at September 30, 2019.
(h) Long-term debt maturities
Anticipated requirements to meet long-term debt repayments, calculated upon such long-term debts owing as at September 30, 2019, are as follows:

<table>
<thead>
<tr>
<th>Composite long-term debt denominated in</th>
<th>Canadian dollars</th>
<th>U.S. dollars</th>
<th>Other currencies</th>
</tr>
</thead>
<tbody>
<tr>
<td>Years ending December 31</td>
<td>Long-term debt, excluding leases</td>
<td>Long-term debt, excluding leases</td>
<td>Currency swap agreement amounts to be exchanged</td>
</tr>
<tr>
<td></td>
<td>Leases (Note 19)</td>
<td>Leases (Note 19)</td>
<td>(Receive) 1</td>
</tr>
<tr>
<td>2019 (remainder of year)</td>
<td>$3</td>
<td>$66</td>
<td>$69</td>
</tr>
<tr>
<td>2020</td>
<td>12</td>
<td>261</td>
<td>273</td>
</tr>
<tr>
<td>2021</td>
<td>1,088</td>
<td>177</td>
<td>1,265</td>
</tr>
<tr>
<td>2022</td>
<td>1,263</td>
<td>118</td>
<td>1,381</td>
</tr>
<tr>
<td>2023</td>
<td>514</td>
<td>107</td>
<td>621</td>
</tr>
<tr>
<td>2024-2028</td>
<td>4,182</td>
<td>313</td>
<td>4,495</td>
</tr>
<tr>
<td>Thereafter</td>
<td>4,407</td>
<td>307</td>
<td>4,714</td>
</tr>
</tbody>
</table>

Future cash outflows in respect of composite long-term debt
principal repayments
11,469 | 1,349 | 12,818 | 4,276 | 72 | (3,877) | 3,868 | 4,339 | 173 | 17,330 |

Future cash outflows in respect of associated interest and like carrying costs 2
5,572 | 399 | 5,971 | 2,612 | 11 | (2,566) | 2,485 | 2,542 | 51 | 8,564 |

Undiscounted contractual maturities (Note 4(b))
$17,041 | $1,748 | $18,789 | $6,888 | $83 | $(6,443) | $6,353 | $6,881 | $224 | $25,894 |

1 Where applicable cash flows reflect foreign exchange rates as at September 30, 2019.
2 Future cash outflows in respect of associated interest and like carrying costs for commercial paper and amounts drawn under our credit facilities (if any) have been calculated based upon the rates in effect as at September 30, 2019.

27 other long-term liabilities

<table>
<thead>
<tr>
<th>As at (millions)</th>
<th>Note</th>
<th>September 30, 2019</th>
<th>December 31, 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contract liabilities</td>
<td>24</td>
<td>$68</td>
<td>$78</td>
</tr>
<tr>
<td>Other</td>
<td></td>
<td>7</td>
<td>7</td>
</tr>
<tr>
<td>Deferred revenues</td>
<td></td>
<td>75</td>
<td>85</td>
</tr>
<tr>
<td>Pension benefit liabilities</td>
<td></td>
<td>420</td>
<td>446</td>
</tr>
<tr>
<td>Other post-employment benefit liabilities</td>
<td></td>
<td>48</td>
<td>45</td>
</tr>
<tr>
<td>Restricted share unit and deferred share unit liabilities</td>
<td></td>
<td>85</td>
<td>63</td>
</tr>
<tr>
<td>Derivative liabilities</td>
<td>4(d)</td>
<td>11</td>
<td>6</td>
</tr>
<tr>
<td>Other</td>
<td></td>
<td>17</td>
<td>71</td>
</tr>
<tr>
<td>Deferred customer activation and connection fees</td>
<td>24</td>
<td>14</td>
<td>15</td>
</tr>
<tr>
<td>Other long-term liabilities</td>
<td></td>
<td>$670</td>
<td>$731</td>
</tr>
</tbody>
</table>

28 Common Share capital

(a) General
Our authorized share capital is as follows:

<table>
<thead>
<tr>
<th>As at</th>
<th>September 30, 2019</th>
<th>December 31, 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Preferred Shares</td>
<td>1 billion</td>
<td>1 billion</td>
</tr>
<tr>
<td>Second Preferred Shares</td>
<td>1 billion</td>
<td>1 billion</td>
</tr>
<tr>
<td>Common Shares</td>
<td>2 billion</td>
<td>2 billion</td>
</tr>
</tbody>
</table>

Only holders of Common Shares may vote at our general meetings, with each holder of Common Shares entitled to one vote per Common Share held at all such meetings so long as not less than 66-2/3% of the issued and outstanding Common Shares are owned by Canadians. With respect to priority in payment of dividends and in the distribution of assets in the event of our liquidation, dissolution or winding-up, whether voluntary or involuntary, or any other distribution of our assets among our shareholders for the purpose of winding up our affairs, preferences are as follows: First Preferred Shares; Second Preferred Shares; and finally Common Shares.
As at September 30, 2019, approximately 12 million Common Shares were reserved for issuance, from Treasury, under a restricted share unit plan (see Note 14(b)) and approximately 47 million Common Shares were reserved for issuance, from Treasury, under a share option plan (see Note 14(d)).

(b) Purchase of Common Shares for cancellation pursuant to normal course issuer bid
As referred to in Note 3, we may purchase a portion of our Common Shares for cancellation pursuant to normal course issuer bids in order to maintain or adjust our capital structure. In December 2018, we received approval for a normal course issuer bid to purchase and cancel up to 8 million of our Common Shares (up to a maximum amount of $250 million) from January 2, 2019, to January 1, 2020.

29 Captive liabilities

Claims and lawsuits

General
A number of claims and lawsuits (including class actions and intellectual property infringement claims) seeking damages and other relief are pending against us and, in some cases, other wireless carriers and telecommunications service providers. As well, we have received notice of, or are aware of, certain possible claims (including intellectual property infringement claims) against us and, in some cases, other wireless carriers and telecommunications service providers.

It is not currently possible for us to predict the outcome of such claims, possible claims and lawsuits due to various factors, including: the preliminary nature of some claims; uncertain damage theories and demands; an incomplete factual record; uncertainty concerning legal theories and procedures and their resolution by the courts, at both the trial and the appeal levels; and the unpredictable nature of opposing parties and their demands.

However, subject to the foregoing limitations, management is of the opinion, based upon legal assessments and information presently available, that it is unlikely that any liability, to the extent not provided for through insurance or otherwise, would have a material effect on our financial position and the results of our operations, including cash flows, with the exception of the items enumerated following.

Certified class actions
Certified class actions against us include the following:

Per minute billing class action
In 2008 a class action was brought in Ontario against us alleging breach of contract, breach of the Ontario Consumer Protection Act, breach of the Competition Act and unjust enrichment, in connection with our practice of “rounding up” wireless airtime to the nearest minute and charging for the full minute. The action sought certification of a national class. In November 2014, an Ontario class only was certified by the Ontario Superior Court of Justice in relation to the breach of contract, breach of Consumer Protection Act, and unjust enrichment claims; all appeals of the certification decision have now been exhausted. At the same time, the Ontario Superior Court of Justice declined to stay the claims of our business customers notwithstanding an arbitration clause in our customer service agreements with those customers. This latter decision was appealed and on May 31, 2017, the Ontario Court of Appeal dismissed our appeal. The Supreme Court of Canada granted us leave to appeal this decision and on April 4, 2019, granted our appeal and stayed the claims of business customers.

Call set-up time class actions
In 2005 a class action was brought against us in British Columbia alleging that we have engaged in deceptive trade practices in charging for incoming calls from the moment the caller connects to the network, and not from the moment the incoming call is connected to the recipient. In 2011, the Supreme Court of Canada upheld a stay of all of the causes of action advanced by the plaintiff in this class action, with one exception, based on the arbitration clause that was included in our customer service agreements. The sole exception was the cause of action based on deceptive or unconscionable practices under the British Columbia Business Practices and Consumer Protection Act, which the Supreme Court of Canada declined to stay. In January 2016, the British Columbia Supreme Court certified this class action in relation to the claim under the Business Practices and Consumer Protection Act. The class is limited to residents of British Columbia who contracted wireless services with us in the period from January 21, 1999, to April 2010. We have appealed the certification decision. A companion class action was brought against us in Alberta at the same time as the British Columbia class action. The Alberta class action duplicates the allegations in the British Columbia action, but has not proceeded to date and is not certified. Subject to a number of conditions, including court approval, we have now settled both the British Columbia and the Alberta class actions.
Uncertified class actions

Uncertified class actions against us include:

9-1-1 class actions
In 2008 a class action was brought in Saskatchewan against us and other Canadian telecommunications carriers alleging that, among other matters, we failed to provide proper notice of 9-1-1 charges to the public, have been deceitfully passing them off as government charges, and have charged 9-1-1 fees to customers who reside in areas where 9-1-1 service is not available. The plaintiffs advance causes of action in breach of contract, misrepresentation and false advertising and seek certification of a national class. A virtually identical class action was filed in Alberta at the same time, but the Alberta Court of Queen’s Bench declared that class action expired against us as of 2009. No steps have been taken in this proceeding since 2016.

Electromagnetic field radiation class action
In 2013 a class action was brought in British Columbia against us, other telecommunications carriers, and cellular telephone manufacturers alleging that prolonged usage of cellular telephones causes adverse health effects. The British Columbia class action alleges: strict liability; negligence; failure to warn; breach of warranty; breach of competition, consumer protection and trade practices legislation; negligent misrepresentation; breach of a duty not to market the products in question; and waiver of tort. Certification of a national class is sought. On March 18, 2019, pursuant to terms of settlement, the Plaintiffs filed a Notice of Discontinuance discontinuing their claim against all defendants.

Public Mobile class actions
In 2014 class actions were brought against us in Quebec and Ontario on behalf of Public Mobile’s customers, alleging that changes to the technology, services and rate plans made by us contravene our statutory and common law obligations. In particular, the Quebec action alleges that our actions constitute a breach of the Quebec Consumer Protection Act, the Quebec Civil Code, and the Ontario Consumer Protection Act. It has not yet proceeded to an authorization hearing. The Ontario class action alleges negligence, breach of express and implied warranty, breach of the Competition Act, unjust enrichment, and waiver of tort. No steps have been taken in this proceeding since it was filed and served.

Handset subsidy class action
In 2016 a class action was brought in Quebec against us and other telecommunications carriers alleging that we breached the Quebec Consumer Protection Act and the Civil Code of Quebec by making false or misleading representations relating to the handset subsidy provided to our wireless customers, and by charging our wireless customers inflated rate plan prices and termination fees higher than those permitted under the Act. The claim was later amended to also seek compensation for amounts paid by class members to unlock their mobile devices. The authorization hearing was held on April 30 and May 1, 2019, and on July 15, 2019, the Quebec Superior Court dismissed the authorization application. The Plaintiff has appealed this decision.

Intellectual property infringement claims
Claims and possible claims received by us include:

4G LTE network patent infringement claim
A patent infringement claim was filed in Ontario in 2016 alleging that communications between devices, including cellular telephones, and base stations on our 4G LTE network infringe three third-party patents. The Plaintiff has since abandoned its claims in respect of two of the three patents. The claims based on the third patent are set to be tried in the fourth quarter of 2019.

Other claims
Claims and possible claims received by us include:

Area code 867 blocking claim
In 2018 a claim was brought against us alleging breach of a Direct Connection Call Termination Services Agreement, breach of a duty of good faith, and intentional interference with economic relations. The plaintiffs allege that we have improperly blocked calls to area code 867 (including to customers of a plaintiff), for which a second plaintiff provides wholesale session initiation trunking services. The plaintiffs seek damages of $135 million. On April 23, 2019, the Ontario Superior Court stayed this claim on the ground that the court has no jurisdiction over, or is not the appropriate forum, for the subject matter of this action.
Summary
We believe that we have good defences to the above matters. Should the ultimate resolution of these matters differ from management’s assessments and assumptions, a material adjustment to our financial position and the results of our operations, including cash flows, could result. Management’s assessments and assumptions include that reliable estimates of any such exposure cannot be made considering the continued uncertainty about: the nature of the damages that may be sought by the plaintiffs; the causes of action that are being, or may ultimately be, pursued; and, in the case of the uncertified class actions, the causes of action that may ultimately be certified.

30 Related party transactions
(a) Transactions with key management personnel
Our key management personnel have authority and responsibility for overseeing, planning, directing and controlling our activities and consist of our Board of Directors and our Executive Leadership Team.

Total compensation expense for key management personnel, and the composition thereof, is as follows:

<table>
<thead>
<tr>
<th>Periods ended September 30 (millions)</th>
<th>Three months</th>
<th>Nine months</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2019</td>
<td>2018</td>
</tr>
<tr>
<td>Short-term benefits</td>
<td>$4</td>
<td>$3</td>
</tr>
<tr>
<td>Post-employment pension(^1) and other benefits</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Share-based compensation</td>
<td>1</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>$6</td>
<td>$20</td>
</tr>
</tbody>
</table>

1 Our Executive Leadership Team members are members of our Pension Plan for Management and Professional Employees of TELUS Corporation and certain other non-registered, non-contributory supplementary defined benefit pension plans.

As disclosed in Note 14, we made initial awards of share-based compensation in 2019 and 2018, including, as set out in the following table, to our key management personnel. As most of these awards are cliff-vesting or graded-vesting and have multi-year requisite service periods, the related expense will be recognized ratably over a period of years and thus only a portion of the 2019 and 2018 initial awards are included in the amounts in the table above.

<table>
<thead>
<tr>
<th>Nine-month periods ended September 30 ($ in millions)</th>
<th>2019</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Awarded in period</td>
<td>474,704</td>
<td>$23</td>
</tr>
<tr>
<td></td>
<td>608,849</td>
<td>$28</td>
</tr>
</tbody>
</table>

1 Notional value is determined by multiplying the Common Share price at the time of award by the number of units awarded. The grant-date fair value differs from the notional value because the fair values of some awards have been determined using a Monte Carlo simulation (see Note 14(b)).

The liability amounts accrued for share-based compensation awards to key management personnel are as follows:

<table>
<thead>
<tr>
<th>As at (millions)</th>
<th>September 30, 2019</th>
<th>December 31, 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Restricted share units</td>
<td>$56</td>
<td>$41</td>
</tr>
<tr>
<td>Deferred share units(^1)</td>
<td>$21</td>
<td>$21</td>
</tr>
<tr>
<td>Total</td>
<td>$77</td>
<td>$62</td>
</tr>
</tbody>
</table>

1 Our Directors’ Deferred Share Unit Plan provides that, in addition to his or her annual equity grant of deferred share units, a director may elect to receive his or her annual retainer and meeting fees in deferred share units, Common Shares or cash. Deferred share units entitle directors to a specified number of, or a cash payment based on the value of, our Common Shares. Deferred share units are paid out when a director ceases to be a director, for any reason, at a time elected by the director in accordance with the Directors’ Deferred Share Unit Plan; during the three-month and nine-month periods ended September 30, 2019, $1 (2018 – $NIL) and $4 (2018 – $6), respectively, was paid out.

Employment agreements with members of the Executive Leadership Team typically provide for severance payments if an executive’s employment is terminated without cause: generally 18–24 months of base salary, benefits and accrual of pension service in lieu of notice, and 50% of base salary in lieu of an annual cash bonus. In the event of a change in control, Executive Leadership Team members are not entitled to treatment any different than that given to our other employees with respect to non-vested share-based compensation.

(b) Transactions with defined benefit pension plans
During the three-month and nine-month periods ended September 30, 2019, we provided management and administrative services to our defined benefit pension plans; the charges for these services were on a cost recovery basis and amounted to $2 million (2018 – $2 million) and $5 million (2018 – $5 million), respectively.
(c) Transactions with real estate joint ventures
During the three-month periods ended September 30, 2019 and 2018, we had transactions with the real estate joint ventures, which are related parties, as set out in Note 21. As at September 30, 2019, we had recorded lease liabilities of $77 million in respect of our TELUS Sky lease; one-third of this amount is due to our economic interest in the real estate joint venture.

31 additional statement of cash flow information

(a) Statements of cash flows – operating activities, investing activities and financing activities

<table>
<thead>
<tr>
<th>Periods ended September 30 (millions)</th>
<th>Note</th>
<th>Three months</th>
<th>Nine months</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>2019</td>
<td>2018</td>
</tr>
<tr>
<td>OPERATING ACTIVITIES</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Net change in non-cash operating working capital</td>
<td>$</td>
<td>7</td>
<td>(144)</td>
</tr>
<tr>
<td>Accounts receivable</td>
<td>(33)</td>
<td>(6)</td>
<td>9</td>
</tr>
<tr>
<td>Contract assets</td>
<td>64</td>
<td>(25)</td>
<td>65</td>
</tr>
<tr>
<td>Prepaid expenses</td>
<td>35</td>
<td>21</td>
<td>(75)</td>
</tr>
<tr>
<td>Accounts payable and accrued liabilities</td>
<td>(64)</td>
<td>127</td>
<td>126</td>
</tr>
<tr>
<td>Income and other taxes receivable and payable, net</td>
<td>(16)</td>
<td>84</td>
<td>(285)</td>
</tr>
<tr>
<td>Advance billings and customer deposits</td>
<td>(23)</td>
<td>(10)</td>
<td>(20)</td>
</tr>
<tr>
<td>Provisions</td>
<td>—</td>
<td>38</td>
<td>(36)</td>
</tr>
<tr>
<td></td>
<td>$</td>
<td>(30)</td>
<td>$</td>
</tr>
<tr>
<td>INVESTING ACTIVITIES</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cash payments for capital assets, excluding spectrum licences</td>
<td>Capital asset additions</td>
<td>Property, plant and equipment</td>
<td>17</td>
</tr>
<tr>
<td>Intangible assets</td>
<td>18</td>
<td>(164)</td>
<td>(157)</td>
</tr>
<tr>
<td>Additions arising from leases</td>
<td>—</td>
<td>(865)</td>
<td>(791)</td>
</tr>
<tr>
<td>Additions arising from non-monetary transactions</td>
<td>17</td>
<td>116</td>
<td>26</td>
</tr>
<tr>
<td>Capital expenditures</td>
<td>5</td>
<td>$</td>
<td>(748)</td>
</tr>
<tr>
<td>Change in associated non-cash investing working capital</td>
<td>54</td>
<td>3</td>
<td>32</td>
</tr>
<tr>
<td></td>
<td>$</td>
<td>(694)</td>
<td>$</td>
</tr>
<tr>
<td>FINANCING ACTIVITIES</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Issue of shares by subsidiary to non-controlling interests</td>
<td>Issue of shares</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Non-monetary issue of shares in business combination</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Cash proceeds on share issuance</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Transaction costs and other</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td></td>
<td>$</td>
<td>—</td>
<td>$</td>
</tr>
</tbody>
</table>
## (b) Changes in liabilities arising from financing activities

<table>
<thead>
<tr>
<th>Statement of cash flows</th>
<th>Non-cash changes</th>
</tr>
</thead>
<tbody>
<tr>
<td>(millions)</td>
<td></td>
</tr>
<tr>
<td><strong>THREE-MONTH PERIOD ENDED</strong></td>
<td><strong>SEPTEMBER 30, 2018</strong></td>
</tr>
<tr>
<td><strong>Dividends paid to holders of Common Shares</strong></td>
<td>$315</td>
</tr>
<tr>
<td><strong>Dividends reinvested in shares from Treasury</strong></td>
<td>$315</td>
</tr>
<tr>
<td><strong>Short-term borrowings</strong></td>
<td>$113</td>
</tr>
<tr>
<td><strong>Long-term debt</strong></td>
<td></td>
</tr>
<tr>
<td>TELUS Corporation notes</td>
<td>$13,090</td>
</tr>
<tr>
<td>TELUS Corporation commercial paper</td>
<td>3</td>
</tr>
<tr>
<td>TELUS Communications Inc. debentures</td>
<td>620</td>
</tr>
<tr>
<td>TELUS International (Cda) Inc. credit facility</td>
<td>432</td>
</tr>
<tr>
<td>Lease liabilities</td>
<td>$—</td>
</tr>
<tr>
<td>Derivatives used to manage currency risks arising from U.S. dollar denominated long-term debt – liability</td>
<td>63</td>
</tr>
<tr>
<td>14,208</td>
<td>1,586</td>
</tr>
<tr>
<td><strong>To eliminate effect of gross settlement of derivatives used to manage currency risks arising from U.S. dollar denominated long-term debt</strong></td>
<td>$—</td>
</tr>
<tr>
<td><strong>THREE-MONTH PERIOD ENDED</strong></td>
<td><strong>SEPTEMBER 30, 2019</strong></td>
</tr>
<tr>
<td><strong>Dividends paid to holders of Common Shares</strong></td>
<td>$339</td>
</tr>
<tr>
<td><strong>Dividends reinvested in shares from Treasury</strong></td>
<td>$339</td>
</tr>
<tr>
<td><strong>Short-term borrowings</strong></td>
<td>$100</td>
</tr>
<tr>
<td><strong>Long-term debt</strong></td>
<td></td>
</tr>
<tr>
<td>TELUS Corporation notes</td>
<td>$13,715</td>
</tr>
<tr>
<td>TELUS Corporation commercial paper</td>
<td>293</td>
</tr>
<tr>
<td>TELUS Communications Inc. debentures</td>
<td>621</td>
</tr>
<tr>
<td>TELUS International (Cda) Inc. credit facility</td>
<td>396</td>
</tr>
<tr>
<td>Other</td>
<td>$—</td>
</tr>
<tr>
<td>Lease liabilities</td>
<td>1,554</td>
</tr>
<tr>
<td>Derivatives used to manage currency risks arising from U.S. dollar denominated long-term debt – liability (asset)</td>
<td>92</td>
</tr>
<tr>
<td>16,671</td>
<td>2,146</td>
</tr>
<tr>
<td><strong>To eliminate effect of gross settlement of derivatives used to manage currency risks arising from U.S. dollar denominated long-term debt</strong></td>
<td>$—</td>
</tr>
<tr>
<td><strong>$16,671</strong></td>
<td>$1,705</td>
</tr>
</tbody>
</table>
### Statement of cash flows

<table>
<thead>
<tr>
<th>(millions)</th>
<th>Beginning of period</th>
<th>Issued or received</th>
<th>Redemptions, repayments or payments</th>
<th>Foreign exchange movement (Note 4(e))</th>
<th>Other</th>
<th>End of period</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>NINE-MONTH PERIOD ENDED SEPTEMBER 30, 2018</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dividends paid to holders of Common Shares</td>
<td>$ 299</td>
<td>$ —</td>
<td>$ (913)</td>
<td>$ —</td>
<td>$ 927</td>
<td>$ 313</td>
</tr>
<tr>
<td>Dividends reinvested in shares from Treasury</td>
<td>—</td>
<td>—</td>
<td>63</td>
<td>—</td>
<td>(63)</td>
<td>—</td>
</tr>
<tr>
<td>Short-term borrowings</td>
<td>$ 100</td>
<td>$ 26</td>
<td>$ (81)</td>
<td>$ (1)</td>
<td>$ 68</td>
<td>$ 112</td>
</tr>
</tbody>
</table>

### Non-cash changes

<table>
<thead>
<tr>
<th>(millions)</th>
<th>Beginning of period</th>
<th>IFRS 16, Leases transitional amount (Note 2(c))</th>
<th>As adjusted</th>
<th>Statement of cash flows</th>
<th>Non-cash changes</th>
<th>Foreign exchange movement (Note 4(e))</th>
<th>Other</th>
<th>End of period</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>NINE-MONTH PERIOD ENDED SEPTEMBER 30, 2019</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dividends payable to holders of Common Shares</td>
<td>$ 326</td>
<td>$ —</td>
<td>$ 326</td>
<td>$ —</td>
<td>(994)</td>
<td>$ —</td>
<td>$ 1,006</td>
<td>$ 338</td>
</tr>
<tr>
<td>Dividends reinvested in shares from Treasury</td>
<td>—</td>
<td>—</td>
<td>68</td>
<td>—</td>
<td>68</td>
<td></td>
<td>(68)</td>
<td>—</td>
</tr>
<tr>
<td>Short-term borrowings</td>
<td>$ 100</td>
<td>$ —</td>
<td>$ 100</td>
<td>$ 450</td>
<td>$ (449)</td>
<td>$ —</td>
<td>$ —</td>
<td>$ 101</td>
</tr>
</tbody>
</table>

### Long-term debt

<table>
<thead>
<tr>
<th>(millions)</th>
<th>Beginning of period</th>
<th>IFRS 16, Leases transitional amount (Note 2(c))</th>
<th>As adjusted</th>
<th>Statement of cash flows</th>
<th>Non-cash changes</th>
<th>Foreign exchange movement (Note 4(e))</th>
<th>Other</th>
<th>End of period</th>
</tr>
</thead>
<tbody>
<tr>
<td>TELUS Corporation notes</td>
<td>$ 12,186</td>
<td>$ —</td>
<td>$ 12,186</td>
<td>$ 2,474</td>
<td>$ (1,000)</td>
<td>$ (86)</td>
<td>$ (26)</td>
<td>$ 13,548</td>
</tr>
<tr>
<td>TELUS Corporation commercial paper</td>
<td>774</td>
<td>—</td>
<td>774</td>
<td>2,806</td>
<td>(2,804)</td>
<td>(16)</td>
<td>—</td>
<td>760</td>
</tr>
<tr>
<td>TELUS Communications Inc. debentures</td>
<td>620</td>
<td>—</td>
<td>620</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>1</td>
<td>621</td>
</tr>
<tr>
<td>TELUS International (Cda) Inc. credit facility</td>
<td>419</td>
<td>—</td>
<td>419</td>
<td>13</td>
<td>(23)</td>
<td>(12)</td>
<td>2</td>
<td>399</td>
</tr>
<tr>
<td>Other</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>(5)</td>
<td>—</td>
<td>(5)</td>
<td>275</td>
<td>270</td>
</tr>
<tr>
<td>Lease liabilities</td>
<td>102,131</td>
<td>1,483</td>
<td>102,141</td>
<td>(214)</td>
<td>(14)</td>
<td>343</td>
<td>1,598</td>
<td></td>
</tr>
<tr>
<td>Derivatives used to manage currency risk arising from U.S. dollar-denominated long-term debt – liability (asset)</td>
<td>(73)</td>
<td>—</td>
<td>(73)</td>
<td>2,804</td>
<td>(2,800)</td>
<td>102</td>
<td>(131)</td>
<td>(98)</td>
</tr>
<tr>
<td>To eliminate effect of gross settlement of derivatives used to manage currency risk arising from U.S. dollar-denominated long-term debt</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>(2,804)</td>
<td>2,804</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>$ 14,028</td>
<td>$ 1,381</td>
<td>$ 15,409</td>
<td>$ 5,293</td>
<td>$ (4,042)</td>
<td>$ (26)</td>
<td>$ 464</td>
<td>$ 17,098</td>
</tr>
</tbody>
</table>