

UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549  
FORM 10-K

(Mark one)



ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d)  
OF THE SECURITIES EXCHANGE ACT OF 1934  
For the fiscal year ended December 31, 2019

OR



TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d)  
OF THE SECURITIES EXCHANGE ACT OF 1934  
For the transition period from to

Commission file number: 1-8606

Verizon Communications Inc.

(Exact name of registrant as specified in its charter)

Delaware

(State or other jurisdiction  
of incorporation or organization)

23-2259884

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

1095 Avenue of the Americas

New York, New York

(Address of principal executive offices)

10036

(Zip Code)

Registrant's telephone number, including area code: (212) 395-1000

Securities registered pursuant to Section 12(b) of the Act:

Title of Each Class	Trading Symbol(s)	Name of Each Exchange on Which Registered
Common Stock, par value \$0.10	VZ	New York Stock Exchange
Common Stock, par value \$0.10	VZ	The NASDAQ Global Select Market
2.375% Notes due 2022	VZ22A	New York Stock Exchange
0.500% Notes due 2022	VZ22B	New York Stock Exchange
1.625% Notes due 2024	VZ24B	New York Stock Exchange
4.073% Notes due 2024	VZ24C	New York Stock Exchange
0.875% Notes due 2025	VZ25	New York Stock Exchange
3.250% Notes due 2026	VZ26	New York Stock Exchange
1.375% Notes due 2026	VZ26B	New York Stock Exchange
0.875% Notes due 2027	VZ27E	New York Stock Exchange
1.375% Notes due 2028	VZ28	New York Stock Exchange
1.875% Notes due 2029	VZ29B	New York Stock Exchange
1.250% Notes due 2030	VZ30	New York Stock Exchange
1.875% Notes due 2030	VZ30A	New York Stock Exchange
2.625% Notes due 2031	VZ31	New York Stock Exchange
2.500% Notes due 2031	VZ31A	New York Stock Exchange
0.875% Notes due 2032	VZ32	New York Stock Exchange
4.750% Notes due 2034	VZ34	New York Stock Exchange
3.125% Notes due 2035	VZ35	New York Stock Exchange
3.375% Notes due 2036	VZ36A	New York Stock Exchange
2.875% Notes due 2038	VZ38B	New York Stock Exchange
1.500% Notes due 2039	VZ39C	New York Stock Exchange

Securities registered pursuant to Section 12(g) of the Act: None

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. ☒ Yes ☐ No

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Act. ☐ Yes ☒ No

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days.  
☒ Yes ☐ No

Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). ☒ Yes ☐ No

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company, or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act. (Check one):

Large accelerated filer	<input checked="" type="checkbox"/>	Accelerated filer	<input type="checkbox"/>
Non-accelerated filer	<input type="checkbox"/>	Smaller reporting company	<input type="checkbox"/>
		Emerging growth company	<input type="checkbox"/>

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act. ☐

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Act). ☐ Yes ☒ No

At June 30, 2019, the aggregate market value of the registrant's voting stock held by non-affiliates was approximately \$236,226,048,492.

At January 31, 2020, 4,135,863,778 shares of the registrant's common stock were outstanding, after deducting 155,569,868 shares held in treasury.

#### **Documents Incorporated By Reference:**

Portions of the registrant's Annual Report to Shareholders for the year ended December 31, 2019 (Parts I and II).

Portions of the registrant's definitive Proxy Statement to be delivered to shareholders in connection with the registrant's 2020 Annual Meeting of Shareholders (Part III).

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## PART I

### Item 1. Business

#### General

Verizon Communications Inc. (Verizon or the Company) is a holding company that, acting through its subsidiaries, is one of the world's leading providers of communications, information and entertainment products and services to consumers, businesses and government entities. With a presence around the world, we offer voice, data and video services and solutions on our networks that are designed to meet customers' demand for mobility, reliable network connectivity, security and control. Formerly known as Bell Atlantic Corporation (Bell Atlantic), we were incorporated in 1983 under the laws of the State of Delaware. We began doing business as Verizon on June 30, 2000 following our merger with GTE Corporation. We have a highly diverse workforce of approximately 135,000 employees as of December 31, 2019.

Our principal executive offices are located at 1095 Avenue of the Americas, New York, New York 10036 (telephone number 212-395-1000).

In November 2018, we announced a strategic reorganization of our business. Under the new structure, effective April 1, 2019, there are two reportable segments that we operate and manage as strategic business units - Verizon Consumer Group (Consumer) and Verizon Business Group (Business).

#### Verizon Consumer Group

Our Consumer segment provides consumer-focused wireless and wireline communications services and products. Our wireless services are provided across one of the most extensive wireless networks in the United States (U.S.) under the Verizon brand and through wholesale and other arrangements. Our wireline services are provided in nine states in the Mid-Atlantic and Northeastern U.S., as well as Washington D.C., over our 100% fiber-optic network under the Fios brand and over a traditional copper-based network to customers who are not served by Fios. In 2019, the Consumer segment's revenues were \$91.1 billion, representing approximately 69% of Verizon's consolidated revenues. As of December 31, 2019, Consumer had approximately 95 million wireless retail connections, 6 million broadband connections and 4 million Fios video connections.

#### Verizon Business Group

Our Business segment provides wireless and wireline communications services and products, video and data services, corporate networking solutions, security and managed network services, local and long distance voice services and network access to deliver various Internet of Things (IoT) services and products. We provide these products and services to businesses, government customers and wireless and wireline carriers across the U.S. and select products and services to customers around the world. In 2019, the Business segment's revenues were \$31.4 billion, representing approximately 24% of Verizon's consolidated revenues. As of December 31, 2019, Business had approximately 25 million wireless retail postpaid connections and approximately 489 thousand broadband connections.

Additional discussion of our reportable segments is included in the 2019 Verizon Annual Report to Shareholders under the headings "Management's Discussion and Analysis of Financial Condition and Results of Operations - Overview" and - "Segment Results of Operations" and in Note 13 to the consolidated financial statements of Verizon Communications Inc. and Subsidiaries, which are incorporated by reference into this report.

#### Service and Product Offerings

Our Consumer segment's wireless and wireline products and services are available to our retail customers, as well as resellers that purchase wireless network access from us on a wholesale basis. Our Business segment's wireless and wireline products and services are organized by the primary customer groups targeted by these offerings: Global Enterprise, Small and Medium Business, Public Sector and Other, and Wholesale.

#### Wireless

We offer wireless services and equipment to customers of both Consumer and Business.

#### Wireless Services

Our Consumer and Business segments provide a wide variety of wireless services accessible on a broad range of devices. Customers can obtain our wireless services on a postpaid or prepaid basis. Retail (non-wholesale) postpaid accounts primarily represent retail customers that are directly served and managed by Verizon and use Verizon branded services. A single account may include monthly wireless services for a variety of connected devices. A retail postpaid connection represents an individual line of service for a wireless device for which a customer is generally billed one month in advance for a monthly access charge in return for access to and usage of network services. Our prepaid service is offered only to Consumer customers and enables individuals to obtain wireless services without credit verification by paying for all services in advance. Approximately 96% of our Consumer retail connections were postpaid connections as of December 31, 2019.

We offer various postpaid and prepaid service plans tailored to the needs of our customers. Depending on those needs at a particular time, our plans may include features related to, among other things: unlimited or metered domestic and/or international voice, data, and texting; the ability to share data allowances and/or use data allowances in different periods; high definition voice and video features; the ability to use a device as a Wi-Fi hotspot; and varying data rates depending on the plan and usage on that plan. Our service offerings vary from time to time based on customer needs, technology changes and market conditions and may be provided as standard plans or as part of limited time promotional offers.

Access to the Internet is available on all smartphones and nearly all basic phones. In addition, our customers can access the Internet at broadband speeds on notebook computers and tablets that are either wireless-enabled or that are used in conjunction with separate dedicated devices that provide a mobile Wi-Fi connection.

As of January 2017, we no longer offer Consumer customers new fixed-term, subsidized service plans for phones; however, we continue to offer subsidized plans to our Business customers. We also continue to service existing plans for customers who have not yet purchased and activated devices under the Verizon device payment program.

### ***Wireless Equipment***

Consumer and Business offer several categories of wireless equipment to customers, including a variety of smartphones and other handsets, wireless-enabled Internet devices, such as tablets, laptop computers and netbooks, and other wireless-enabled connected devices, such as smart watches and other wearables. In certain cases, we permit customers to acquire equipment from us using device payment plans, which permit the customer to pay for the device in installments over time.

### **Verizon Consumer Group**

In addition to the wireless services and equipment discussed above, Consumer sells residential fixed connectivity solutions, including Internet, video and voice services, and wireless network access to resellers on a wholesale basis.

*Residential Fixed Services.* We provide residential fixed connectivity solutions to customers over our 100% fiber-optic network under the Fios brand, and over a traditional copper-based network to customers who are not served by Fios. During 2018, we commercially launched fifth-generation (5G) wireless technology for the home (5G Home) on proprietary standards in four U.S. markets and on global standards in a fifth market in 2019.

We offer residential fixed services tailored to the needs of our customers. Depending on those needs at a particular time, our services may include features related to, among other things: Internet access at different speed tiers using fiber-optic, copper or wireless technology; video services that may feature a variety of channel options, video on demand products, cloud-based services and digital video recording capabilities; over-the-top video services; and voice services.

*Network Access Services.* We sell network access to mobile virtual network operators (MVNOs) on a wholesale basis, who in turn resell wireless service under their own brand(s) to consumers.

### **Verizon Business Group**

In addition to the wireless services and equipment discussed above, our Business segment provides communications products and enhanced services, including video and data services, corporate networking solutions, security and managed network services, local and long distance voice services and network access to deliver various IoT products and services.

### ***Global Enterprise***

Global Enterprise offers services to large businesses, which are identified based on their size and volume of business with Verizon, as well as non-U.S. public sector customers. In 2019, Global Enterprise revenues were \$10.8 billion, representing approximately 34% of Business's total revenues.

Global Enterprise offers a broad portfolio of connectivity, security and professional services designed to enable our customers to optimize their business operations, mitigate business risks and capitalize on data. These services include the following:

- *Network Services.* We offer a portfolio of network connectivity products to help our customers connect with their employees, partners, vendors, and customers. These products include private networking services, private cloud connectivity services, virtual and software defined networking services, and Internet access services.
- *Advanced Communications Services.* We offer a suite of services to our customers to help them communicate with their employees, partners, vendors, constituents and customers. These products include Internet Protocol (IP)-based voice services, unified communications and collaboration tools and customer contact center solutions.
- *Security services.* We offer a suite of management and data security services that help our customers protect, detect and respond to security threats to their networks, data, applications and infrastructure.
- *Core services.* We provide a portfolio of domestic and global voice and data solutions utilizing traditional telecommunications technology, including voice calling, messaging services, conferencing, contact center solutions and private line and data access networks. Core services also include the provision of customer premises equipment, and installation, maintenance and site services.

- *IoT services.* We provide the network access required to deliver various IoT products and services. We work with companies that purchase network access from us to connect their Open Development-certified devices, bundled together with their own solutions, which they sell to end users. We are building IoT capabilities by leveraging business models that monetize usage on our networks at the connectivity, platform and solution layers.

### ***Small and Medium Business***

Small and Medium Business offers wireless services and equipment, tailored voice and networking products, Fios services, IP networking, advanced voice solutions, security and managed information technology (IT) services to our U.S.-based customers that do not meet the requirements to be categorized as Global Enterprise. In 2019, Small and Medium Business revenues were \$11.5 billion, representing approximately 36% of Business's total revenues.

In addition to the wireless services and equipment discussed above, Small and Medium Business provides fixed connectivity solutions comparable to the residential fixed services provided by Consumer, as well as business services and connectivity similar to the products and services offered by Global Enterprise, in each case with features and pricing designed to address the needs of small and medium businesses.

### ***Public Sector and Other***

Public Sector and Other offers wireless products and services as well as wireline connectivity and managed solutions to U.S. federal, state and local governments and educational institutions. These services include the business services and connectivity similar to the products and services offered by Global Enterprise, in each case, with features and pricing designed to address the needs of governments and educational institutions. In 2019, Public Sector and Other revenues were \$5.9 billion, representing approximately 19% of Business's total revenues.

Public Sector and Other also includes solutions that support fleet tracking management, compliance management, field service management, asset tracking and other types of mobile resource management in the United States and around the world.

### ***Wholesale***

Wholesale offers wireline communications services including data, voice, local dial tone and broadband services primarily to local, long distance, and wireless carriers that use our facilities to provide services to their customers. In 2019, Wholesale revenues were \$3.2 billion, representing approximately 10% of Business's total revenues. A portion of Wholesale revenues are generated by a few large telecommunications companies, most of which compete directly with us. Wholesale's services include:

- *Data services.* We offer a portfolio of data services with varying speeds and options to enhance our Wholesale customers' networks and provide connections to their end-users and subscribers.
- *Voice services.* We provide switched access services that allow carriers to complete their end-user calls that originate or terminate within our territory. In addition, we provide originating and terminating voice services throughout the U.S. and globally utilizing our TDM and VoIP networks.
- *Local services.* We offer an array of local dial tone and broadband services to competitive local exchange carriers, some of which are offered to comply with telecommunications regulations. In addition, we offer services such as colocation, resale and unbundled network elements in compliance with applicable regulations.

## **Distribution**

We use a combination of direct, indirect and alternative distribution channels to market and distribute our products and services to Consumer customers.

Our direct channel, including our company-operated stores, is a core component of our distribution strategy. Our sales and service centers also represent a significant distribution channel for our services.

Our indirect/digital partners channel includes agents that sell our wireless and wireline products and services at retail locations throughout the U.S., as well as through the Internet. The majority of these sales are made under exclusive selling arrangements with us. We also have relationships with high-profile national retailers that sell our wireless and wireline products and services, as well as convenience store chains that sell our wireless prepaid products and services. In 2019, we grew our digital channel and expanded omni channel experiences for our customers to offer choice and convenience.

In addition to our direct channel, our Business segment has additional distribution channels that include business solution fulfillment provided by resellers, non-stocked device fulfillment performed by distributors and integrated mobility services provided by system integrators and resellers.

## **Competition and Related Trends**

The telecommunications industry is highly competitive. We expect competition to remain intense as traditional and non-traditional participants seek increased market share.

With respect to our wireless connectivity products and services, we compete against other national wireless service providers, including AT&T Inc., Sprint Corporation and T-Mobile USA, Inc., as well as various regional wireless service providers. We also compete for retail activations with resellers that buy bulk wholesale service from wireless service providers, including Verizon, and resell it to their customers. Resellers may include cable companies. Competition remains intense as a result of high rates of smartphone penetration in the wireless market, increased network investment by our competitors, the development and deployment of new technologies, such as 5G, the introduction of new products and services, offerings that include additional premium content, new market entrants, the availability of additional licensed and unlicensed spectrum, and regulatory changes. In 2019, we began offering Apple Music and Disney+ to customers as part of their Unlimited plans. Competition may also increase as smaller, stand-alone wireless service providers merge or transfer licenses to larger, better capitalized wireless service providers and as MVNOs resell wireless communication services.

We also face competition from other communications and technology companies seeking to increase their brand recognition and capture customer revenue with respect to the provision of wireless products and services, in addition to non-traditional offerings in mobile data. For example, Microsoft Corporation, Alphabet Inc., Apple Inc. and others are offering alternative means for making wireless voice calls that, in certain cases, can be used in lieu of the wireless provider's voice service, as well as alternative means of accessing video content.

With respect to our wireline connectivity services, we compete against cable companies, wireless service providers, domestic and foreign telecommunications providers, satellite television companies, Internet service providers, over-the-top (OTT) providers and other companies that offer network services and managed enterprise solutions. Cable operators have increased the size and capacity of their networks in order to deliver digital products and services. We introduced offerings that provide customized Internet and video packages. Several major cable operators also offer bundles with wireless services through strategic relationships. Customers have more choices for obtaining video content from various online services. We expect the market will continue to shift from traditional linear video to OTT offerings. We expect customer migration from traditional voice services to wireless services to continue as a growing number of customers place greater value on mobility and wireless companies position their services as a landline alternative. We also face increasing competition from cable operators and other providers of VoIP services, as well as Internet portal providers.

We believe that the following are the most important competitive factors and trends in the telecommunications industry:

- *Network reliability, speed and coverage.* We consider networks that consistently provide high-quality, fast and reliable service to be a key differentiator in the market and driver of customer satisfaction. Lower prices, improved service quality and new service offerings, which in many cases include video content, have led to increased customer usage of connectivity services. We and other network-based providers must ensure that our networks can meet these increasing capacity usage requirements and offer highly reliable national coverage.
- *Pricing.* With respect to wireless services and equipment, pricing plays an important role in the wireless competitive landscape. As the demand for wireless services continues to grow, wireless service providers are offering a range of service plans at competitive prices. Many wireless service providers also bundle wireless service offerings with other products and offer promotional pricing and incentives, some of which may be targeted specifically to customers of Verizon. We and other wireless service providers, as well as equipment manufacturers, offer device payment options, which provide customers with the ability to pay for their device over a period of time, and some providers offer device leasing arrangements. In addition, aggressive device promotions have become more common in an effort to gain a greater share of subscribers interested in changing carriers. With respect to wireline services, pricing is used by competitors to capture market share from incumbents, and it is a significant factor as non-traditional modes of providing communication services emerge and new entrants compete for customers. For example, VoIP and portal-based voice and video calling is often free or nearly free to customers and is often supported by advertising revenues.
- *Customer service.* We believe that high-quality customer service is a key factor in retaining customers and attracting new customers, including those of other providers. Our customer service, retention and satisfaction programs are based on providing customers with convenient and easy-to-use products and services and focusing on their needs in order to promote long-term relationships and minimize churn. The Verizon Up program, for example, was launched to promote long-term relationships with our Consumer customers. The program offers a variety of rewards to customers in exchange for points in connection with their account-related transactions.

Customer service is highly valued by our Business customers. We provide Global Enterprise and Public Sector and Other customers with ready access to their system and performance information, and we conduct proactive testing of our networks to identify issues before they affect our customers. We service our Small and Medium Business customers through service representatives and online support, as well as through store-based representatives for small business customers. For Wholesale customers, we pursue service improvement through continued system automation initiatives.

- *Product differentiation.* Customer and revenue growth are increasingly dependent on the development of new and enhanced products and services, as the delivery of new and innovative products and services has been accelerating. Customers are shifting their focus from access to applications and are seeking ways to leverage their broadband, video and wireless connections. To compete effectively, providers need to continuously review, improve and refine their product portfolio and develop and rapidly deploy new products and services tailored to the needs of customers. We continue to pursue the development and rapid deployment of new and innovative products and services, both independently and in collaboration with application providers, content providers and device manufacturers. Features such as wireless and wireline inter-operability are becoming increasingly important, driven by both customer demand and technological advancement.

- *Sales and distribution.* A key to achieving sales success in the consumer and small and medium business sectors of the wireless industry is the reach and quality of sales channels and distribution points. We seek to optimally vary distribution channels among our company-operated stores selling wireless products and services, outside sales teams and telemarketing, web-based sales and fulfillment capabilities, our extensive indirect distribution network of retail outlets and our sale of wireless service to resellers, which resell wireless services to their end-users.

In addition to these competitive factors and trends, companies with a global presence are increasingly competing with us in our Business segment. A relatively small number of telecommunications and integrated service providers with global operations serve customers in the global enterprise market and, to a lesser extent, the global wholesale market. We compete with these providers for large contracts to provide integrated solutions to global enterprises. Many of these companies have strong market presence, brand recognition and existing customer relationships, all of which contribute to intensifying competition that may affect our future revenue growth.

In the Global Enterprise and Public Sector and Other markets, competition remains high, primarily as a result of increased industry focus on technology convergence. We compete in this area with system integrators, carriers, and hardware and software providers. In addition, some of the largest information technology services companies are making strategic acquisitions, divesting non-strategic assets and forging new alliances to improve their cost structure. Many new alliances and acquisitions have focused on emerging fields, such as cloud computing, software defined network, communication applications and other computing tasks via networks, rather than by the use of in-house machines.

In the Small and Medium Business market, customer purchasing behaviors and preferences continue to evolve. Solution speed and simplicity with user interfaces that have a consumer-like "look and feel" are becoming key differentiators for customers who are seeking full life-cycle offers that simplify the process of starting, running and growing their businesses. Several major cable operators also offer bundles with wireless services through strategic relationships.

Our Wholesale business competes with traditional carriers for long-haul, voice and IP services. In addition, mobile video and data needs are driving a greater need for wireless backhaul. Network providers, cable companies and niche players are competitors for this business opportunity.

## **Verizon Media**

Our media business, Verizon Media, includes diverse media and technology brands that serve both consumers and businesses. Verizon Media provides consumers with owned and operated and third-party search properties as well as mail, news, finance, sports and entertainment offerings, and provides other businesses and partners access to consumers through digital advertising, content delivery and video streaming platforms. In 2019, Verizon Media's revenues were \$7.5 billion.

### **Verizon Media Products and Solutions**

#### ***Ad Platform***

Our Verizon Media Ad Platform provides advertisers and publishers with a simplified suite of intelligent advertising solutions across desktop, mobile and television devices. Verizon Media's business is comprised primarily of search advertising, display advertising, Ecommerce and subscriptions.

- *Search advertising.* Our search properties serve as a guide for users to discover information on the Internet. Verizon Media serves click-based search advertisements generated by proprietary algorithmic technology, as well as advertisements from partners. Verizon Media provides the underlying search products that facilitate user searches within Verizon Media and third-party partner properties.
- *Display advertising.* Display advertising is made up of both graphical and performance-based advertising and takes the form of impression-based contracts, time-based contracts and performance-based contracts. Verizon Media display ads leverage proprietary data signals to identify and engage users on Verizon Media properties and across the web. Through Verizon Media Ad Platform, we provide customers the ability to buy advertising inventory, measure campaigns across screens and advertising formats using self-serve technology or our managed services. We also provide publishers with the ability to monetize their ad inventory.
- *Ecommerce.* Our Ecommerce offering includes different types of business models, including facilitating transactions between businesses and consumers, enabling businesses that facilitate transactions for other businesses, and facilitating transactions between consumers.
- *Subscription memberships.* Our paid subscription offerings include premium content and services across our mail, news, finance, sports and entertainment properties, privacy and security solutions and computer protection.

#### ***Verizon Media Platform***

As the digital platform reshapes the delivery of media and entertainment content, there is an increasing need for stable, high-quality video delivery platforms. Our Media Platform offers a scalable platform for delivering content, including live broadcasts, video on demand, games, software and websites to our customers on their devices at any time. This platform is targeted at media and entertainment companies and other businesses that deliver their digital products and services through the Internet.



## Global Network and Technology

Our global network architecture is used by both Consumer and Business. Our network technology platforms include both wireless and wireline technologies.

### Network Evolution

We are evolving the architecture of our networks to a next-generation multi-use platform, providing improved efficiency and virtualization, increased automation and opportunities for edge computing services that will support both our fiber-based and radio access network technologies. We call this the Intelligent Edge Network. We expect that this new architecture will simplify operations by eliminating legacy network elements, improve our fourth-generation (4G) Long-Term Evolution (LTE) wireless coverage, speed the deployment of 5G wireless technology and create new opportunities in the business market.

### 5G Deployment

Over the past several years, we have been leading the development of 5G wireless technology industry standards and the ecosystems for fixed and mobile 5G wireless services. We believe 5G technology will be able to provide users with eight capabilities, or currencies. The eight currencies are peak data rates, mobile data volumes, mobility, number of connected devices, energy efficiency of connected devices, service deployment, reduced latency and improved reliability. We expect that 5G technology will provide higher throughput and lower latency than the current 4G LTE technology and enable our networks to handle more traffic as the number of Internet-connected devices grows. During 2018, we commercially launched 5G Home on proprietary standards in four U.S. markets and on global standards in a fifth U.S. market in 2019. We also launched our 5G Ultra Wideband Network in 31 U.S. markets in 2019, as well as several 5G-compatible smartphones.

### 4G LTE

Our primary wireless network technology platform is 4G LTE, which provides higher data throughput performance for data services at a lower cost compared to that offered by 3G technology. As of December 31, 2019, our 4G LTE network is available in over 700 markets covering approximately 327 million people, including those in areas served by our LTE in Rural America partners. Under this program, we have collaborated with wireless carriers in rural areas to build and operate a 4G LTE network using each carrier's network assets and our core 4G LTE equipment and 700 Megahertz (MHz) C Block and Advanced Wireless Services (AWS) spectrum.

### Wireless Network Reliability and Build-Out

We consider the reliability, coverage and speed of our wireless network as key factors for our continued success. We believe that steady and consistent network and platform investments provide the foundation for innovative products and services. As we design and deploy our network, we focus on the number of successful data sessions the network enables, delivering on our advertised throughput speeds, and the number of calls that are connected on the first attempt and completed without being dropped. We utilize three strategies to maintain the quality of our network: increasing the density of our network elements, deploying new technologies as they are developed and putting additional wireless spectrum into service. We choose among these strategies based on the circumstances present at different times in each of our service areas.

We have been densifying our network by utilizing small cell technology, in-building solutions and distributed antenna systems. Network densification enables us to add capacity to address increasing mobile video consumption and the growing demand for IoT products and services on our 4G LTE and 5G networks. We are also utilizing existing network capabilities to handle increased traffic without interrupting the quality of the customer experience. We continue to deploy advanced technologies to increase both network capacity and data rates.

In order to build and upgrade our existing 4G LTE network and deploy our 5G network, we must complete a variety of steps, which can include securing rights to a large number of sites as well as obtaining zoning and other governmental approvals and fiber facilities, for our macro and small cells, in-building systems and antennas and related radio equipment that comprise distributed antenna systems. We have relationships with a wide variety of vendors that supply various products and services that support our wireless network operations. We utilize tower site management firms as lessors or managers of a portion of our existing leased and owned tower sites.

Our networks include various elements of redundancy designed to enhance the reliability of the services provided to our customers. To mitigate the impact of power disruptions on our operations, we have battery backup at every switch and every macro cell. We also utilize backup generators at a majority of our macro cells and at every switch location. In addition, we have a fleet of portable backup generators that can be deployed, if needed. We further enhance reliability by using a fully redundant Multiprotocol Label Switching backbone network in critical locations.

In addition to our own network coverage, we have roaming agreements with a number of wireless service providers to enable our customers to receive wireless service in nearly all other areas in the U.S. where wireless service is available. We also offer a variety of international wireless voice and data services to our customers through roaming arrangements with wireless service providers outside the U.S.

### Fios

Residential broadband service has seen significant growth in bandwidth demand over the past several years, and we believe that demand will continue to grow. We expect the continued emergence of new video services, new data applications and the proliferation of IP devices in the home will continue to drive new network requirements for increased data speeds and throughput. We believe that the Passive Optical Network (PON) technology underpinning Fios positions us well to meet these demands in a cost-effective and efficient manner.

While deployed initially as a consumer broadband network, our PON infrastructure is also experiencing more widespread application in the Business segment, especially as businesses increasingly migrate to Ethernet-based access services.

## **Global IP**

Verizon owns and operates one of the largest global fiber-optic networks in the world, providing connectivity to Business customers in more than 150 countries. Our global IP network includes long-haul, metro and submarine assets that span over 1 million route miles and enable and support international operations.

Global business is rapidly evolving to an "everything-as-a-service" model in which Business customers seek cloud-based, converged enterprise solutions delivered securely via managed and professional services. We are continuing to deploy packet optical transport technology in order to create a global network platform to meet this demand.

## **Spectrum**

The spectrum licenses we hold can be used for mobile wireless voice, video and data communications services. We are licensed by the Federal Communications Commission (FCC) to provide these wireless services on portions of the 800 MHz band, also known as cellular spectrum, the 1800-1900 MHz band, also known as Personal Communication Services (PCS) spectrum, portions of the 700 MHz upper C band and AWS 1 and 3 spectrum in the 1700 and 2100 MHz bands, in areas that, collectively, cover nearly all of the population of the U.S. This spectrum is collectively called low and mid-band spectrum. We are using our low and mid-band spectrum to provide both 3G and 4G LTE wireless services. However, we are increasingly reallocating spectrum previously used for 3G service to provide 4G LTE service. We are also repurposing low and mid-band spectrum to complement our spectrum licenses in the 28 and 39 Gigahertz (GHz) band, collectively called millimeter wave spectrum.

Millimeter wave spectrum is being used for our 5G technology deployment. We anticipate that we will need additional spectrum to meet future demand. This increasing demand is driven by growth in customer connections and the increased usage of wireless broadband services that use more bandwidth and require faster rates of speed, as well as the wider deployment of 5G mobile and fixed services. We can meet our future 4G and 5G spectrum needs by acquiring licenses or leasing spectrum from other licensees, or by acquiring new spectrum licenses from the FCC, if and when future FCC spectrum auctions occur.

From time to time we have exchanged spectrum licenses with other wireless service providers through secondary market swap transactions. We expect to continue to pursue similar opportunities to trade spectrum licenses in order to meet capacity and expansion needs in the future. In certain cases, we have entered into intra-market spectrum swaps designed to increase the amount of contiguous spectrum within frequency bands in a specific market. Contiguous spectrum improves network performance and efficiency. These swaps, as well as any spectrum purchases, require us to obtain governmental approvals.

Information regarding spectrum license transactions is included in the 2019 Verizon Annual Report to Shareholders in Note 3 to the consolidated financial statements of Verizon Communications Inc. and Subsidiaries, which is incorporated by reference into this report.

## **Strategic Transactions**

During March 2015, we completed a transaction with American Tower Corporation (American Tower) pursuant to which American Tower acquired the exclusive rights to lease and operate approximately 11,300 of our wireless towers and corresponding ground leases for an upfront payment of \$5.0 billion. We have subleased capacity on the towers from American Tower for a minimum of 10 years at current market rates, with options to renew. Under the terms of the lease agreements, American Tower has exclusive rights to lease and operate towers over an average term of approximately 28 years. As the leases expire, American Tower has fixed-price purchase options to acquire these towers based on their anticipated fair market values at the end of the lease terms. As part of this transaction, we also sold 162 towers for \$71 million.

In June 2015, we completed our acquisition of AOL Inc. (AOL), a leader in digital content and advertising. The aggregate cash consideration paid by Verizon at the closing was approximately \$3.8 billion.

In April 2016, we completed the sale (Access Line Sale) of our local exchange business and related landline activities in California, Florida and Texas, including Fios Internet and video customers, switched and special access lines and high-speed Internet service and long distance voice accounts in these three states to Frontier Communications Corporation (Frontier) for approximately \$10.5 billion (approximately \$7.3 billion net of income taxes), subject to certain adjustments and including the assumption of \$612 million of indebtedness from Verizon by Frontier. The transaction included the acquisition by Frontier of the equity interests of Verizon's incumbent local exchange carriers (ILECs) in California, Florida and Texas.

The transaction resulted in Frontier acquiring approximately 3.3 million voice connections, 1.6 million Fios Internet subscribers, 1.2 million Fios video subscribers and the related ILEC businesses from Verizon. Approximately 9,300 Verizon employees who served customers in California, Florida and Texas continued employment with Frontier.

In July 2016, we acquired Telogis, Inc., a global, cloud-based mobile enterprise management software business, for \$877 million of cash consideration.

In November 2016, we completed the acquisition of Fleetmatics Group PLC, a global provider of fleet and mobile workforce management solutions, for \$60.00 per ordinary share in cash. The aggregate merger consideration was approximately \$2.5 billion, including cash acquired of \$112 million.

In December 2016, we entered into a definitive agreement, which was subsequently amended in March 2017, with Equinix, Inc. (Equinix) pursuant to which we agreed to sell 23 customer-facing data center sites in the U.S. and Latin America for approximately \$3.6 billion, subject to certain adjustments (Data Center Sale). The transaction closed in May 2017.

In February 2016, we entered into a purchase agreement to acquire XO Holdings' wireline business (XO), which owned and operated one of the largest fiber-based IP and Ethernet networks in the U.S. Concurrently, we entered into a separate agreement to utilize certain wireless spectrum from a wholly-owned subsidiary of XO Holdings, NextLink, that held XO's millimeter-wave wireless spectrum. The agreement included an option, subject to certain conditions, to acquire NextLink. In February 2017, we completed our acquisition of XO for total cash consideration of approximately \$1.5 billion, of which \$100 million was paid in 2015.

In April 2017, we exercised our option to buy NextLink for approximately \$493 million, subject to certain adjustments, of which \$320 million was prepaid in the first quarter of 2017. The transaction closed in January 2018. The acquisition of NextLink was accounted for as an asset acquisition, as substantially all of the value related to the acquired spectrum. Upon closing, we recorded approximately \$657 million of wireless licenses, \$110 million of a deferred tax liability and \$58 million of other liabilities.

In June 2017, we completed our acquisition of the operating business of Yahoo! Inc. (Yahoo), a leader in search, communications, digital content and advertising. Pursuant to the Purchase Agreement, upon the terms and subject to the conditions thereof, we agreed to acquire the stock of one or more subsidiaries of Yahoo holding all of Yahoo's operating business for approximately \$4.83 billion in cash, subject to certain adjustments. In February 2017, Verizon and Yahoo entered into an amendment to the Purchase Agreement, pursuant to which the Transaction purchase price was reduced by \$350 million to approximately \$4.48 billion in cash, subject to certain adjustments.

In August 2017, we entered into a definitive agreement to purchase certain fiber-optic network assets in the Chicago market from WideOpenWest, Inc. (WOW!), a leading provider of communications services. The transaction closed in December 2017. In addition, the parties entered into a separate agreement pursuant to which WOW! was to complete the build-out of the network assets in 2019. This build-out was completed in 2019. The total cash consideration for the transactions was approximately \$275 million, of which \$226 million was paid in December 2017. During 2019 and 2018, the remaining cash consideration was paid.

In 2017, we entered into a transaction to acquire Straight Path Communications Inc., which held certain millimeter-wave spectrum licenses. The transaction closed in February 2018 for total consideration reflecting an enterprise value of approximately \$3.1 billion. We are using the spectrum acquired for our 5G technology deployment.

Additional information regarding certain of these strategic transactions is included in the 2019 Verizon Annual Report to Shareholders in Note 3 to the consolidated financial statements of Verizon Communications Inc. and Subsidiaries, which is incorporated by reference into this report.

## **Patents, Trademarks and Licenses**

We own or have licenses to various patents, copyrights, trademarks, domain names and other intellectual property rights necessary to conduct our business. We actively pursue the filing and registration of patents, copyrights, domain names, trademarks and service marks to protect our intellectual property rights within the United States and abroad. We also actively grant licenses, in exchange for appropriate fees or other consideration and subject to appropriate safeguards and restrictions, to other companies that enable them to utilize certain of our intellectual property rights and proprietary technology as part of their products and services. Such licenses enable the licensees to take advantage of the results of Verizon's research and development efforts. While these licenses result in valuable consideration for Verizon, we do not believe that the loss of such consideration, or the expiration of any of our intellectual property rights, would have a material effect on our results of operations.

We periodically receive offers from third parties to purchase or obtain licenses for patents and other intellectual property rights in exchange for royalties or other payments. We also periodically receive notices alleging that our products or services infringe on third-party patents or other intellectual property rights. These claims, whether against us directly or against third-party suppliers of products or services that we sell to our customers, if successful, could require us to pay damages or royalties, or cease offering the relevant products or services.

## **Acquisitions and Divestitures**

Information about our acquisitions and divestitures is included in the 2019 Verizon Annual Report to Shareholders under the heading "Management's Discussion and Analysis of Financial Condition and Results of Operations - Acquisitions and Divestitures" and in Note 3 to the consolidated financial statements of Verizon Communications Inc. and subsidiaries, which is incorporated by reference into this report.

## Regulatory and Competitive Trends

### Regulatory and Competitive Landscape

Verizon operates in a regulated and highly competitive market. Current and potential competitors include other voice and data service providers, such as other wireless companies, traditional telephone companies, cable companies, Internet service providers, software and application providers and other non-traditional competitors. Many of these companies have strong market presence, brand recognition and existing customer relationships, all of which contribute to a highly competitive market that may affect our future revenue growth. Some of our competitors also are subject to fewer regulatory constraints than Verizon. For many services offered by Verizon, the FCC is our primary regulator. The FCC has jurisdiction over interstate telecommunications services and other matters under the Communications Act of 1934, as amended (Communications Act or Act). Other Verizon services are subject to state and local regulation.

### Federal, State and Local Regulation

#### *Wireless Services*

The FCC regulates several aspects of our wireless operations. Generally, the FCC has jurisdiction over the construction, operation, acquisition and transfer of wireless communications systems. All wireless services require use of radio frequency spectrum, the assignment and distribution of which is subject to FCC oversight. Verizon anticipates that it will need additional spectrum to meet future demand. We can meet our needs for licensed spectrum by purchasing licenses or leasing spectrum from others, or by participating in a competitive bidding process to acquire new spectrum from the FCC. Those processes are subject to certain reviews, approvals and potential conditions.

Today, Verizon holds FCC spectrum licenses that allow it to provide a wide range of mobile and fixed communications services, including both voice and data services. FCC spectrum licenses typically have a term of 10 years, at which time they are subject to renewal. While the FCC has routinely renewed all of Verizon's wireless licenses, challenges could be raised in the future. If a wireless license was revoked or not renewed, Verizon would not be permitted to provide services on the spectrum covered by that license. Some of our licenses require us to comply with so-called "open access" FCC regulations, which generally require licensees of particular spectrum to allow customers to use devices and applications of their choice, subject to certain technical limitations. The FCC has also imposed certain specific mandates on wireless carriers, including construction and geographic coverage requirements, technical operating standards, provision of enhanced 911 services, roaming obligations and requirements for wireless tower and antenna facilities.

The Act generally preempts regulation by state and local governments of the entry of, or the rates charged by, wireless carriers. The Act does not prohibit states from regulating the other "terms and conditions" of wireless service. For example, some states attempt to regulate wireless customer billing matters and impose reporting requirements. Several states also have laws or regulations that address safety issues (e.g., use of wireless handsets while driving) and taxation matters. In addition, wireless tower and antenna facilities are often subject to state and local zoning and land use regulation, and securing approvals for new or modified facilities is often a lengthy and expensive process.

#### *Broadband*

Verizon offers many different broadband services. Traditionally, the FCC recognized broadband Internet access services as "information services" subject to a "light touch" regulatory approach rather than to the traditional, utilities-style regulations. In 2015, the FCC declared that broadband Internet access services are "telecommunications services" subject to common carriage regulation under Title II of the Communications Act. In December 2017, the FCC adopted an order reversing the 2015 Title II Order to return to "light touch" regulation of broadband Internet access services. The "light touch" portions of this order have been upheld by the U.S. Court of Appeals for the D.C. Circuit but further appeals are likely. The part of the FCC order automatically preempting state action on the subject was vacated, and a number of states are likely to join those that have taken steps to regulate broadband. Regardless of regulation, Verizon remains committed to the open Internet, which provides consumers with competitive choices and unblocked access to lawful websites and content, and our commitment to our customers can be found on our website at <http://responsibility.verizon.com/broadband-commitment>.

#### *Wireline Voice*

Verizon offers many different wireline voice services, including traditional telephone service and other services that rely on technologies such as VoIP. For regulatory purposes, legacy telephone services are generally considered to be "common carrier" services. Common carrier services are subject to heightened regulatory oversight with respect to rates, terms and conditions and other aspects of the services. The FCC has not decided the regulatory classification of VoIP but has said VoIP service providers must comply with certain rules, such as 911 capabilities and law enforcement assistance requirements.

State public utility commissions regulate Verizon's telephone operations with respect to certain telecommunications intrastate matters. Verizon operates as an "incumbent local exchange carrier" in nine states and the District of Columbia. These incumbent operations are subject to various levels of pricing flexibility and other state oversight and requirements. Verizon also has other wireline operations that are more lightly regulated.

#### *Video*

Verizon offers a multichannel video service that is regulated like traditional cable service. The FCC has a body of rules that apply to cable operators, and these rules also generally apply to Verizon. In areas where Verizon offers its facilities-based multichannel video services, Verizon has been required to obtain a cable franchise from local government entities, or in some cases a state-wide franchise, and comply with certain one-time and ongoing obligations as a result.

### **Privacy and Data Security**

We are subject to federal, state and international laws and regulations relating to privacy and data security that impact all parts of our business, including wireline, wireless, broadband and the development and roll out of new products, such as those in the media and IoT space. At the federal level, our voice business is subject to the FCC's privacy requirements. Oversight of broadband Internet access privacy and data security is governed by the Federal Trade Commission (FTC). Generally, attention to privacy and data security requirements is increasing at both the state and federal level, and several privacy-related bills have been introduced or are under considerations at each level. Europe's General Data Protection Regulation, which went into effect in May 2018, includes significant penalties for non-compliance. In addition, a new privacy law took effect in California at the beginning of 2020, an additional privacy law is scheduled to take effect in Maine in 2020, and other states are considering additional regulations. These regulations could have a significant impact on our businesses.

### **Public Safety and Cybersecurity**

The FCC plays a role in addressing public safety concerns by regulating emergency communications services and mandating widespread availability of both media (broadcast/cable) and wireless emergency alerting services. In response to cyber attacks that have occurred or could occur in the future, however, the FCC or other regulators may attempt to increase regulation of the cybersecurity practices of providers. The FCC is also addressing the use by American companies of equipment produced by companies imposing potential national security risks, but Verizon does not use such equipment in its network. In addition, due to recent natural disasters, federal and state agencies may attempt to impose regulations to ensure continuity of service during disasters.

### **Intercarrier Compensation and Network Access**

The FCC regulates some of the rates that carriers pay each other for the exchange of voice traffic (particularly traditional wireline traffic) over different networks and other aspects of interconnection for some voice services. The FCC also regulates some of the rates and terms and conditions for certain wireline "business data services" and other services and network facilities. Verizon is both a seller and a buyer of these services, and both makes and receives interconnection payments. The FCC has focused in recent years on whether changes in the rates, terms and conditions for both the exchange of traffic and for business data services may be appropriate.

### **Information About Our Executive Officers**

See Part III, Item 10. "Directors, Executive Officers and Corporate Governance" of this Annual Report on Form 10-K for information about our executive officers.

### **Employees**

As of December 31, 2019, Verizon and its subsidiaries had approximately 135,000 employees. Labor unions represent approximately 23% of our employees.

### **Information on Our Internet Website**

We make available, free of charge on our website, our annual reports on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K, and all amendments to those reports at <http://www.verizon.com/about/investors> as soon as reasonably practicable after such reports are electronically filed with the Securities and Exchange Commission (SEC). These reports and other information are also available on the SEC's website at [www.sec.gov](http://www.sec.gov). We periodically provide other information for investors on this website, as well, including news and announcements regarding our financial performance, information on corporate governance and details related to our annual meeting of shareholders. We encourage investors, the media, our customers, business partners and other stakeholders to review the information we post on this channel. Website references in this report are provided as a convenience and do not constitute, and should not be viewed as, incorporation by reference of the information contained on, or available through, the websites. Therefore, such information should not be considered part of this report.

### **Cautionary Statement Concerning Forward-Looking Statements**

In this report we have made forward-looking statements. These statements are based on our estimates and assumptions and are subject to risks and uncertainties. Forward-looking statements include the information concerning our possible or assumed future results of operations. Forward-looking statements also include those preceded or followed by the words "anticipates," "believes," "estimates," "expects," "hopes" or similar expressions. For those statements, we claim the protection of the safe harbor for forward-looking statements contained in the Private Securities Litigation Reform Act of 1995. We undertake no obligation to revise or publicly release the results of any revision to these forward-looking statements, except as required by law. Given these risks and uncertainties, readers are cautioned not to place undue reliance on such forward-looking statements.

The following important factors, along with those discussed elsewhere in this report and in other filings with the SEC, could affect future results and could cause those results to differ materially from those expressed in the forward-looking statements:

- cyber attacks impacting our networks or systems and any resulting financial or reputational impact;
- natural disasters, terrorist attacks or acts of war or significant litigation and any resulting financial or reputational impact;
- disruption of our key suppliers' or vendors' provisioning of products or services;
- material adverse changes in labor matters and any resulting financial or operational impact;

- the effects of competition in the markets in which we operate;
- failure to take advantage of developments in technology and address changes in consumer demand;
- performance issues or delays in the deployment of our 5G network resulting in significant costs or a reduction in the anticipated benefits of the enhancement to our networks;
- the inability to implement our business strategy;
- adverse conditions in the U.S. and international economies;
- changes in the regulatory environment in which we operate, including any increase in restrictions on our ability to operate our networks;
- our high level of indebtedness;
- an adverse change in the ratings afforded our debt securities by nationally accredited ratings organizations or adverse conditions in the credit markets affecting the cost, including interest rates, and/or availability of further financing;
- significant increases in benefit plan costs or lower investment returns on plan assets;
- changes in tax laws or treaties, or in their interpretation; and
- changes in accounting assumptions that regulatory agencies, including the SEC, may require or that result from changes in the accounting rules or their application, which could result in an impact on earnings.

**Item 1A. Risk Factors**

*The following discussion of "Risk Factors" identifies the most significant factors that may adversely affect our business, operations, financial condition or future performance. This information should be read in conjunction with "Management's Discussion and Analysis of Financial Condition and Result of Operations" and the consolidated financial statements and related notes. The following discussion of risks is not all-inclusive but is designed to highlight what we believe are important factors to consider when evaluating our business and expectations. These factors could cause our future results to differ materially from our historical results and from expectations reflected in forward-looking statements.*

**Operational Risks****Cyber attacks impacting our networks or systems could have an adverse effect on our business.**

Cyber attacks, including through the use of malware, computer viruses, dedicated denial of services attacks, credential harvesting, social engineering and other means for obtaining unauthorized access to or disrupting the operation of our networks and systems and those of our suppliers, vendors and other service providers, could have an adverse effect on our business. Cyber attacks may cause equipment failures, loss of information, including sensitive personal information of customers or employees or valuable technical and marketing information, as well as disruptions to our or our customers' operations. Cyber attacks against companies, including Verizon, have increased in frequency, scope and potential harm in recent years. They may occur alone or in conjunction with physical attacks, especially where disruption of service is an objective of the attacker. The development and maintenance of systems to prevent such attacks is costly and requires ongoing monitoring and updating to address their increasing prevalence and sophistication. While, to date, we have not been subject to cyber attacks that, individually or in the aggregate, have been material to Verizon's operations or financial condition, the preventive actions we take to reduce the risks associated with cyber attacks, including protection of our systems and networks, may be insufficient to repel or mitigate the effects of a major cyber attack in the future.

The inability to operate or use our networks and systems or those of our suppliers, vendors and other service providers as a result of cyber attacks, even for a limited period of time, may result in significant expenses to Verizon and/or a loss of market share to other communications providers. The costs associated with a major cyber attack on Verizon could include expensive incentives offered to existing customers and business partners to retain their business, increased expenditures on cybersecurity measures and the use of alternate resources, lost revenues from business interruption and litigation. Further, certain of Verizon's businesses, such as those offering security solutions and infrastructure and cloud services to business customers, could be negatively affected if our ability to protect our own networks and systems is called into question as a result of a cyber attack. Our presence in the IoT industry, which includes offerings of telematics products and services, could also increase our exposure to potential costs and expenses and reputational harm in the event of cyber attacks impacting these products or services. In addition, a compromise of security or a theft or other compromise of valuable information, such as financial data and sensitive or private personal information, could result in lawsuits and government claims, investigations or proceedings. Any of these occurrences could damage our reputation, adversely impact customer and investor confidence and result in a material adverse effect on Verizon's results of operation or financial condition.

**Natural disasters, terrorist acts or acts of war could cause damage to our infrastructure and result in significant disruptions to our operations.**

Our business operations are subject to interruption by power outages, terrorist attacks, other hostile acts and natural disasters, including an increasing prevalence of wildfires and intensified storm activities. Such events could cause significant damage to our infrastructure upon which our business operations rely, resulting in degradation or disruption of service to our customers, as well as significant recovery time and expenditures to resume operations. Our system redundancy may be ineffective or inadequate to sustain our operations through all such events. We are implementing, and will continue to implement, measures to protect our infrastructure and operations from the impacts of these events in the future, but these measures and our overall disaster recovery planning may not be sufficient for all eventualities. These events could also damage the infrastructure of the suppliers that provide us with the equipment and services that we need to operate our business and provide products to our customers. These occurrences could result in lost revenues from business interruption, damage to our reputation and reduced profits.

**We depend on key suppliers and vendors to provide equipment that we need to operate our business.**

We depend on various key suppliers and vendors to provide us, directly or through other suppliers, with equipment and services, such as fiber, switch and network equipment, smartphones and other wireless devices that we need in order to operate our business and provide products to our customers. For example, our smartphone and other device suppliers often rely on one vendor for the manufacture and supply of critical components, such as chipsets, used in their devices, and there are a limited number of companies capable of supplying the network infrastructure equipment on which we depend. These suppliers or vendors could fail to provide equipment or service on a timely basis, or fail to meet our performance expectations, for a number of reasons, including, for example, disruption to the global supply chain as a result of the coronavirus. If such failures occur, we may be unable to provide products and services as and when requested by our customers, or we may be unable to continue to maintain or upgrade our networks. Because of the cost and time lag that can be associated with transitioning from one supplier to another, our business could be substantially disrupted if we were required to, or chose to, replace the products or services of one or more major suppliers with products or services from another source, especially if the replacement became necessary on short notice. Any such disruption could increase our costs, decrease our operating efficiencies and have a material adverse effect on our business, results of operations and financial condition.

The suppliers and vendors on which we rely may also be subject to litigation with respect to technology on which we depend, including litigation involving claims of patent infringement. Such claims are frequently made in the communications industry. We are unable to predict whether our



business will be affected by any such litigation. We expect our dependence on key suppliers to continue as we develop and introduce more advanced generations of technology.

**A significant portion of our workforce is represented by labor unions, and we could incur additional costs or experience work stoppages as a result of the renegotiation of our labor contracts.**

As of December 31, 2019, approximately 23% of our workforce was represented by labor unions. While we have labor contracts in place with these unions, with subsequent negotiations we could incur additional costs and/or experience work stoppages, which could adversely affect our business operations. In addition, while a small percentage of the workforce of our wireless and other businesses outside of wireline is represented by unions, we cannot predict what level of success unions may have in further organizing this workforce or the potentially negative impact it would have on our operations.

## **Economic and Strategic Risks**

**We face significant competition that may reduce our profits.**

We face significant competition in our industries. The rapid development of new technologies, services and products have eliminated many of the traditional distinctions among wireless, cable, Internet and local and long distance communication services and brought new competitors to our markets, including other telephone companies, cable companies, wireless service providers, satellite providers and application and device providers. While these changes have enabled us to offer new types of products and services, they have also allowed other providers to broaden the scope of their own competitive offerings. If we are unable to compete effectively, we could experience lower than expected revenues and earnings. A projected sustained decline in any of our reporting units' revenues and earnings could have a significant impact on its fair value and has caused us in the past, and may cause us in the future, to record goodwill impairment charges. The amount of any impairment charge could be significant and could have a material adverse impact on our results of operations for the period in which the charge is taken. In addition, wireless service providers are significantly altering the financial relationships with their customers through commercial offers that vary service and device pricing, promotions, incentives and levels of service provided – in some cases specifically targeting our customers. Our ability to compete effectively will depend on, among other things, our network quality, capacity and coverage, the pricing of our products and services, the quality of our customer service, our development of new and enhanced products and services, the reach and quality of our sales and distribution channels and our capital resources. It will also depend on how successfully we anticipate and respond to various factors affecting our industries, including new technologies and business models, changes in consumer preferences and demand for existing services, demographic trends and economic conditions. If we are not able to respond successfully to these competitive challenges, we could experience reduced profits.

**If we are not able to take advantage of developments in technology and address changing consumer demand on a timely basis, we may experience a decline in the demand for our services, be unable to implement our business strategy and experience reduced profits.**

Our industries are rapidly changing as new technologies are developed that offer consumers an array of choices for their communications needs and allow new entrants into the markets we serve. In order to grow and remain competitive, we will need to adapt to future changes in technology, enhance our existing offerings and introduce new offerings to address our customers' changing demands. If we are unable to meet future challenges from competing technologies on a timely basis or at an acceptable cost, we could lose customers to our competitors. We may not be able to accurately predict technological trends or the success of new services in the market.

The deployment of our 5G network is subject to a variety of risks, including those related to equipment availability, unexpected costs, and regulatory permitting requirements that could cause deployment delays or network performance issues. These issues could result in significant costs or reduce the anticipated benefits of the enhancements to our networks. If our services fail to gain acceptance in the marketplace, or if costs associated with the implementation and introduction of these services materially increase, our ability to retain and attract customers could be adversely affected.

In addition to introducing new offerings and technologies, such as 5G technology, we must phase out outdated and unprofitable technologies and services. If we are unable to do so on a cost-effective basis, we could experience reduced profits. In addition, there could be legal or regulatory restraints on our ability to phase out current services.

**Adverse conditions in the U.S. and international economies could impact our results of operations.**

Unfavorable economic conditions, such as a recession or economic slowdown in the U.S. or elsewhere, could negatively affect the affordability of and demand for some of our products and services. In difficult economic conditions, consumers may seek to reduce discretionary spending by forgoing purchases of our products, electing to use fewer higher margin services, dropping down in price plans or obtaining lower-cost products and services offered by other companies. Similarly, under these conditions, the business customers that we serve may delay purchasing decisions, delay full implementation of service offerings or reduce their use of services. In addition, adverse economic conditions may lead to an increased number of our consumer and business customers that are unable to pay for services. If these events were to occur, it could have a material adverse effect on our results of operations.



## Regulatory and Legal Risks

### Changes in the regulatory framework under which we operate could adversely affect our business prospects or results of operations.

Our domestic operations are subject to regulation by the FCC and other federal, state and local agencies, and our international operations are regulated by various foreign governments and international bodies. These regulatory regimes frequently restrict or impose conditions on our ability to operate in designated areas and provide specified products or services. We are frequently required to maintain licenses for our operations and conduct our operations in accordance with prescribed standards. We are often involved in regulatory and other governmental proceedings or inquiries related to the application of these requirements. It is impossible to predict with any certainty the outcome of pending federal and state regulatory proceedings relating to our operations, or the reviews by federal or state courts of regulatory rulings. Without relief, existing laws and regulations may inhibit our ability to expand our business and introduce new products and services. Similarly, we cannot guarantee that we will be successful in obtaining the licenses needed to carry out our business plan or in maintaining our existing licenses. For example, the FCC grants wireless licenses for terms generally lasting 10 years, subject to renewal. The loss of, or a material limitation on, certain of our licenses could have a material adverse effect on our business, results of operations and financial condition.

New laws or regulations or changes to the existing regulatory framework at the federal, state and local, or international level, such as those described below, or new laws or regulations enacted to address the potential impacts of climate change, could restrict the ways in which we manage our wireline and wireless networks and operate our Media business, impose additional costs, impair revenue opportunities and potentially impede our ability to provide services in a manner that would be attractive to us and our customers.

- *Privacy and data protection* - we are subject to federal, state and international laws related to privacy and data protection. Europe's General Data Protection Regulation, which went into effect in May 2018, includes significant penalties for non-compliance. In addition, a new privacy law took effect in California at the beginning of 2020, an additional privacy law is scheduled to take effect in Maine in 2020, and other states are considering additional regulations. These regulations could have a significant impact on our businesses.
- *Regulation of broadband Internet access services* - In its 2015 Title II Order, the FCC nullified its longstanding "light touch" approach to regulating broadband Internet access services and "reclassified" these services as telecommunications services subject to utilities-style common carriage regulation. The FCC repealed the 2015 Title II Order in December 2017, and returned to its traditional light-touch approach for these services. The 2017 order has been affirmed in part by the D.C. Circuit, but further appeals and challenges are possible; the outcome and timing of these or any other challenge remains uncertain. Several states have also adopted or are considering adopting laws or executive orders that would impose net neutrality and other requirements on some of our services (in some cases different from the FCC's 2015 rules). The enforceability and effect of these state rules is uncertain.
- *"Open Access"* - we hold certain wireless licenses that require us to comply with so-called "open access" FCC regulations, which generally require licensees of particular spectrum to allow customers to use devices and applications of their choice. Moreover, certain services could be subject to conflicting regulation by the FCC and/or various state and local authorities, which could significantly increase the cost of implementing and introducing new services.

The further regulation of broadband, wireless and our other activities and any related court decisions could restrict our ability to compete in the marketplace and limit the return we can expect to achieve on past and future investments in our networks.

### We are subject to a significant amount of litigation, which could require us to pay significant damages or settlements.

We are subject to a substantial amount of litigation, including, from time to time, shareholder derivative suits, patent infringement lawsuits, antitrust class actions, wage and hour class actions, personal injury claims, property claims, and lawsuits relating to our advertising, sales, billing and collection practices. In addition, our wireless business also faces personal injury and wrongful death lawsuits relating to alleged health effects of wireless phones or radio frequency transmitters. We may incur significant expenses in defending these lawsuits. In addition, we may be required to pay significant awards or settlements.

## Financial Risks

### Verizon has significant debt, which could increase further if Verizon incurs additional debt in the future and does not retire existing debt.

As of December 31, 2019, Verizon had approximately \$99.1 billion of outstanding unsecured indebtedness, \$9.4 billion of unused borrowing capacity under its existing revolving credit facility and \$12.4 billion of outstanding secured indebtedness. Verizon's debt level and related debt service obligations could have negative consequences, including:

- requiring Verizon to dedicate significant cash flow from operations to the payment of principal, interest and other amounts payable on its debt, which would reduce the funds Verizon has available for other purposes, such as working capital, capital expenditures, dividend payments and acquisitions;
- making it more difficult or expensive for Verizon to obtain any necessary future financing for working capital, capital expenditures, debt service requirements, debt refinancing, acquisitions or other purposes;
- reducing Verizon's flexibility in planning for or reacting to changes in its industries and market conditions;
- making Verizon more vulnerable in the event of a downturn in its business; and

- exposing Verizon to increased interest rate risk to the extent that its debt obligations are at variable interest rates.

#### **Adverse changes in the credit markets and other factors could increase our borrowing costs and the availability of financing.**

We require a significant amount of capital to operate and grow our business. We fund our capital needs in part through borrowings in the public and private credit markets. Adverse changes in the credit markets, including increases in interest rates, could increase our cost of borrowing and/or make it more difficult for us to obtain financing for our operations or refinance existing indebtedness. In addition, our ability to obtain funding under asset-backed debt transactions is subject to our ability to continue to originate a sufficient amount of assets eligible to be securitized. Our borrowing costs also can be affected by short- and long-term debt ratings assigned by independent rating agencies, which are based, in significant part, on our performance as measured by customary credit metrics. A decrease in these ratings would likely increase our cost of borrowing and/or make it more difficult for us to obtain financing. A severe disruption in the global financial markets could impact some of the financial institutions with which we do business, and such instability could also affect our access to financing.

#### **Increases in costs for pension benefits and active and retiree healthcare benefits may reduce our profitability and increase our funding commitments.**

With approximately 135,000 employees and approximately 191,000 retirees as of December 31, 2019 eligible to participate in Verizon's benefit plans, the costs of pension benefits and active and retiree healthcare benefits have a significant impact on our profitability. Our costs of maintaining these plans, and the future funding requirements for these plans, are affected by several factors, including the legislative and regulatory uncertainty regarding the potential modification of the Patient Protection and Affordable Care Act, increases in healthcare costs, decreases in investment returns on funds held by our pension and other benefit plan trusts and changes in the discount rate and mortality assumptions used to calculate pension and other postretirement expenses. If we are unable to limit future increases in the costs of our benefit plans, those costs could reduce our profitability and increase our funding commitments.

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

None.

#### **Item 2. Properties**

Our principal properties do not lend themselves to simple description by character and location. Our total gross investment in property, plant and equipment was approximately \$266 billion at December 31, 2019 and \$253 billion at December 31, 2018, including the effect of retirements, but before deducting accumulated depreciation. Our gross investment in property, plant and equipment consisted of the following:

At December 31,	2019	2018
Network equipment	77.3%	78.0%
Land, buildings and building equipment	12.0%	12.4%
Furniture and other	10.7%	9.6%
	<b>100.0%</b>	<b>100.0%</b>

Network equipment consists primarily of cable (aerial, buried, underground or undersea) and the related support structures of poles and conduit, wireless plant, switching equipment, network software, transmission equipment and related facilities. Land, buildings and building equipment consists of land and land improvements, central office buildings or any other buildings that house network equipment, and buildings that are used for administrative and other purposes. Substantially all the switching centers are located on land and in buildings we own due to their critical role in the networks and high set-up and relocation costs. We also maintain facilities throughout the U.S. comprised of administrative and sales offices, customer care centers, retail sales locations, garage work centers, switching centers, cell sites and data centers. Furniture and other consists of telephone equipment, furniture, data processing equipment, office equipment, motor vehicles, plant under construction and leasehold improvements.

#### **Item 3. Legal Proceedings**

In October 2013, the California Attorney General's Office notified certain Verizon companies of potential violations of California state hazardous waste statutes primarily arising from the disposal of electronic components, batteries and aerosol cans at certain California facilities. We are cooperating with this investigation and continue to review our operations relating to the management of hazardous waste. While penalties relating to the alleged violations could exceed \$100,000, we do not expect that any penalties ultimately incurred will be material.

#### **Item 4. Mine Safety Disclosures**

None.

## **PART II**

**Item 5. Market for Registrant's Common Equity, Related Stockholder Matters and Issuer Purchases of Equity Securities**

The principal market for trading in the common stock of Verizon is the New York Stock Exchange under the symbol "VZ". As of December 31, 2019, there were 605,414 shareholders of record.

**Stock Repurchases**

In February 2020, the Verizon Board of Directors authorized a share buyback program to repurchase up to 100 million shares of the Company's common stock. The program will terminate when the aggregate number of shares purchased reaches 100 million, or a new share repurchase plan superseding the current plan is authorized, whichever is sooner. Under the program, shares may be repurchased in privately negotiated transactions, on the open market, or otherwise, including through plans complying with Rule 10b5-1 under the Exchange Act. The timing and number of shares purchased under the program, if any, will depend on market conditions and the Company's capital allocation priorities.

During the years ended December 31, 2019 and 2018, Verizon did not repurchase any shares of Verizon's common stock under our previously authorized share buyback program. At December 31, 2019, the maximum number of shares that could be purchased by or on behalf of Verizon under our share buyback program was 100 million.

For other information required by this item, see the section entitled "Stock Performance Graph" in the 2019 Verizon Annual Report to Shareholders, which is incorporated herein by reference.

**Item 6. Selected Financial Data**

Information required by this item is included in the 2019 Verizon Annual Report to Shareholders under the heading "Selected Financial Data," which is incorporated herein by reference.

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

Information required by this item is included in the 2019 Verizon Annual Report to Shareholders under the heading "Management's Discussion and Analysis of Financial Condition and Results of Operations," which is incorporated herein by reference.

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

Information required by this item is included in the 2019 Verizon Annual Report to Shareholders under the heading "Management's Discussion and Analysis of Financial Condition and Results of Operations - Market Risk," which is incorporated herein by reference.

**Item 8. Financial Statements and Supplementary Data**

Information required by this item is included in the consolidated financial statements and related notes of Verizon Communications Inc. and Subsidiaries in the 2019 Verizon Annual Report to Shareholders, which is incorporated herein by reference.

**Item 9. Changes in and Disagreements with Accountants on Accounting and Financial Disclosure**

None.

**Item 9A. Controls and Procedures**

Our Chief Executive Officer and Chief Financial Officer have evaluated the effectiveness of the registrant's disclosure controls and procedures (as defined in Rules 13a-15(e) and 15d-15(e) of the Securities Exchange Act of 1934), as of the end of the period covered by this Annual Report, that ensure that information relating to the registrant which is required to be disclosed in this report is recorded, processed, summarized and reported within required time periods using the criteria for effective internal control established in Internal Control-Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission in 2013. Based on this evaluation, our Chief Executive Officer and Chief Financial Officer have concluded that the registrant's disclosure controls and procedures were effective as of December 31, 2019.

In the ordinary course of business, we routinely review our system of internal control over financial reporting and make changes to our systems and processes that are intended to ensure an effective internal control environment. There were no changes in the Company's internal control over financial reporting during the fourth quarter of 2019 that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

Management's report on internal control over financial reporting and the attestation report of Verizon's independent registered public accounting firm are included in the 2019 Verizon Annual Report to Shareholders and are incorporated herein by reference.

## Item 9B. Other Information

None.

## PART III

## Item 10. Directors, Executive Officers and Corporate Governance

Set forth below is information with respect to our executive officers.

Name	Age	Office	Held Since
Hans Vestberg	54	Chairman and Chief Executive Officer	2019
Ronan Dunne	56	Executive Vice President and Group CEO - Verizon Consumer	2019
Matthew D. Ellis	48	Executive Vice President and Chief Financial Officer	2016
Tami A. Erwin	55	Executive Vice President and Group CEO - Verizon Business	2019
K. Guru Gowrappan	39	Executive Vice President and Group CEO - Verizon Media	2019
Kyle Malady	52	Executive Vice President and Chief Technology Officer	2019
Christine Pambianchi	51	Executive Vice President and Chief Human Resources Officer	2019
Rima Qureshi	55	Executive Vice President and Chief Strategy Officer	2017
Craig L. Silliman	52	Executive Vice President and Chief Administrative, Legal and Public Policy Officer	2019
Anthony T. Skiadas	51	Senior Vice President and Controller	2013

Prior to serving as an executive officer, each of the above officers has held high-level managerial positions with the Company or one of its subsidiaries for at least five years, with the exception of Hans Vestberg, who has been with the Company since 2017, Ronan Dunne, who has been with the Company since 2016, K. Guru Gowrappan, who has been with the Company since 2018, Christine Pambianchi, who has been with the Company since 2019 and Rima Qureshi, who has been with the Company since 2017. Officers are not elected for a fixed term of office and may be removed from office at any time at the discretion of the Board of Directors.

Hans Vestberg is the Chairman and Chief Executive Officer of Verizon. Mr. Vestberg joined the Company in April 2017 as Executive Vice President and President - Global Networks and Technology. He began serving in his current role of Chief Executive Officer in August 2018 and was elected Chairman in March 2019. Prior to joining Verizon, Mr. Vestberg served for six years as President and Chief Executive Officer of Ericsson, a multinational networking and telecommunications equipment and services company headquartered in Sweden.

Ronan Dunne is the Executive Vice President and Group CEO - Verizon Consumer. Mr. Dunne joined the Company in September 2016 as Executive Vice President and President of Verizon Wireless. Prior to joining Verizon, Mr. Dunne served for eight years as Chief Executive Officer of Telefónica UK Limited (O2), the second largest wireless operator in the United Kingdom.

K. Guru Gowrappan is the Executive Vice President and Group CEO - Verizon Media. Mr. Gowrappan joined the Company in April 2018 as the President and Chief Operating Officer of Oath. He began serving in his current role in October 2018. Prior to joining Verizon, Mr. Gowrappan served as the Global Managing Director of Alibaba Inc. from 2015 to 2018 and as the Chief Operating Officer for Quixey, a mobile search engine, from 2012 to 2015.

Christine Pambianchi is the Executive Vice President and Chief Human Resources Officer. Ms. Pambianchi joined the Company in July 2019. Prior to joining Verizon, Ms. Pambianchi led the Human Resources function at Corning Incorporated, a leading innovator in materials science, where she served as Executive Vice President, People and Digital, from 2018 to 2019 and as Senior Vice President, Human Resources, from 2010 to 2018.

Rima Qureshi is Executive Vice President and Chief Strategy Officer of Verizon. Ms. Qureshi joined the Company in November 2017. Prior to joining Verizon, Ms. Qureshi served as President and Chief Executive Officer of Ericsson North America from 2016 to 2017 and as Senior Vice President and Chief Strategy Officer and head of mergers and acquisitions of Ericsson from 2014 to 2016. Ms. Qureshi also served as Vice President of Ericsson's CDMA Mobile Systems Group, Senior Vice President of Strategic Projects, Chairman of Ericsson's Northern Europe, Russia and Central Asia Group and Chairman of Ericsson's Modem division before becoming Chief Strategy Officer.

For other information required by this item, see the sections entitled "Governance — Item 1: Election of Directors — Nominees for Election and — Election Process, — Our Approach to Governance — Where to Find More Information on Governance at Verizon, — Our Board Composition and Structure — Board Committees — Audit Committee and — Our Approach to Strategy and Risk Oversight — Other Risk-Related Matters — Business Conduct and Ethics" in our definitive Proxy Statement to be filed with the Securities and Exchange Commission and delivered to shareholders in connection with our 2020 Annual Meeting of Shareholders, which are incorporated herein by reference.

## Item 11. Executive Compensation

For information with respect to executive compensation, see the sections entitled "Governance — Non-Employee Director Compensation" and "Executive Compensation — Compensation Discussion and Analysis, — Compensation Committee Report and — Compensation Tables" in our definitive Proxy Statement to be filed with the Securities and Exchange Commission and delivered to shareholders in connection with our 2020 Annual Meeting of Shareholders, which are incorporated by reference herein. There were no relationships to be disclosed under paragraph (e)(4) of Item 407 of Regulation S-K.

## Item 12. Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters

For information with respect to the security ownership of the Directors and Executive Officers, see the section entitled "Stock Ownership — Security Ownership of Certain Beneficial Owners and Management" in our definitive Proxy Statement to be filed with the SEC and delivered to shareholders in connection with our 2020 Annual Meeting of Shareholders, which is incorporated herein by reference. In addition, the following table provides other equity compensation plan information:

The following table provides information as of December 31, 2019 for (i) all equity compensation plans previously approved by the Company's shareholders, and (ii) all equity compensation plans not previously approved by the Company's shareholders. From May 9, 2009 until May 4, 2017, the Company only issued awards under the 2009 Verizon Communications Inc. Long-Term Incentive Plan and, after May 4, 2017, the Company only issued awards under the 2017 Verizon Communications Inc. Long-Term Incentive Plan (2017 LTIP). Each of these plans provides for awards of stock options, restricted stock, restricted stock units, performance stock units and other equity-based hypothetical stock units to employees of Verizon and its subsidiaries. No new awards are permitted to be issued under any equity compensation plan other than the 2017 LTIP. In accordance with SEC rules, the table does not include outstanding awards that are payable solely in cash by the terms of the award, and such awards do not reduce the number of shares remaining for issuance under the 2017 LTIP.

Plan Category	Number of securities to be issued upon exercise of outstanding options, warrants and rights (a)	Weighted-average exercise price of outstanding options, warrants and rights (b)	Number of securities remaining available for future issuance under equity compensation plans (excluding securities reflected in column (a)) (c)
Equity compensation plans approved by security holders	7,259,237 <sup>(1)</sup>	\$ — <sup>(2)</sup>	88,717,670 <sup>(3)</sup>
Equity compensation plans not approved by security holders	120,272 <sup>(4)</sup>	—	—
<b>Total</b>	<b>7,379,509</b>	<b>\$ —</b>	<b>88,717,670</b>

<sup>(1)</sup> This amount includes: 7,259,237 of common stock subject to outstanding restricted stock units and performance stock units, including dividend equivalents accrued on such awards through December 31, 2019. This does not include performance stock units, deferred stock units and deferred share equivalents payable solely in cash.

<sup>(2)</sup> Verizon's outstanding restricted stock units, performance stock units and deferred stock units do not have exercise prices associated with the settlement of these awards.

<sup>(3)</sup> This number reflects the number of shares of common stock that remained available for future issuance under the 2017 LTIP.

<sup>(4)</sup> This number reflects shares subject to deferred stock units credited to the Verizon Income Deferral Plan, which were awarded in 2002 under the Verizon Communications Broad-Based Incentive Plan. No new awards are permitted to be issued under this plan.

## Item 13. Certain Relationships and Related Transactions, and Director Independence

For information with respect to certain relationships and related transactions and Director independence, see the sections entitled "Governance — Our Approach to Governance — Our Approach to Strategy and Risk Oversight — Other Risk-Related Matters — Related Person Transactions and — Our Board Composition and Structure — Our Board's Independence" in our definitive Proxy Statement to be filed with the Securities and Exchange Commission and delivered to shareholders in connection with our 2020 Annual Meeting of Shareholders, which are incorporated by reference.

## Item 14. Principal Accounting Fees and Services

For information with respect to principal accounting fees and services, see the section entitled "Audit Matters — Item 3: Ratification of Appointment of Independent Registered Public Accounting Firm" in our definitive Proxy Statement to be filed with the Securities and Exchange Commission and delivered to shareholders in connection with our 2020 Annual Meeting of Shareholders, which are incorporated by reference.

## PART IV

### Item 15. Exhibits, Financial Statement Schedules

(a) Documents filed as part of this report:

	Page
(1) Report of Management on Internal Control Over Financial Reporting	*
(2) Report of Independent Registered Public Accounting Firm on Internal Control Over Financial Reporting	*
(3) Report of Independent Registered Public Accounting Firm on Financial Statements	*
Financial Statements covered by Report of Independent Registered Public Accounting Firm:	
Consolidated Statements of Income	*
Consolidated Statements of Comprehensive Income	*
Consolidated Balance Sheets	*
Consolidated Statements of Cash Flows	*
Consolidated Statements of Changes in Equity	*
Notes to Consolidated Financial Statements	*
<p>* Incorporated herein by reference to the appropriate portions of the registrant's Annual Report to Shareholders for the fiscal year ended December 31, 2019. (See Part II.)</p>	
(4) Financial Statement Schedule	
II – Valuation and Qualifying Accounts	26
(5) Exhibits	
<p>Exhibits identified in parentheses below, on file with the SEC, are incorporated herein by reference as exhibits hereto. Unless otherwise indicated, all exhibits so incorporated are from File No. 1-8606.</p>	

Exhibit Number	Description
<a href="#">3a</a>	Restated Certificate of Incorporation of Verizon Communications Inc. (Verizon) (filed as Exhibit 3a to Form 10-Q for the period ended June 30, 2014 and incorporated herein by reference).
<a href="#">3b</a>	Bylaws of Verizon, as amended and restated, effective as of December 5, 2019 (filed as Exhibit 3b to Form 8-K filed on December 5, 2019 and incorporated herein by reference).
<a href="#">4a</a>	Indenture between Verizon, both individually and as successor in interest to Verizon Global Funding Corp., and U.S. Bank National Association, as successor trustee to Wachovia Bank, National Association, formerly known as First Union National Bank, as Trustee, dated as of December 1, 2000 (incorporated by reference to Verizon Global Funding Corp.'s Registration Statement on Form S-4, Registration No. 333-64792, Exhibit 4.1).
<a href="#">4b</a>	First Supplemental Indenture between Verizon, both individually and as successor in interest to Verizon Global Funding Corp., and U.S. Bank National Association, as successor trustee to Wachovia Bank, National Association, formerly known as First Union National Bank, as Trustee, dated as of May 15, 2001 (incorporated by reference to Verizon Global Funding Corp.'s Registration Statement on Form S-3, Registration No. 333-67412, Exhibit 4.2).
<a href="#">4c</a>	Second Supplemental Indenture between Verizon, both individually and as successor in interest to Verizon Global Funding Corp., and U.S. Bank National Association, as successor trustee to Wachovia Bank, National Association, formerly known as First Union National Bank, as Trustee, dated as of September 29, 2004 (incorporated by reference to Form 8-K filed on February 9, 2006, Exhibit 4.1).
<a href="#">4d</a>	Third Supplemental Indenture between Verizon, both individually and as successor in interest to Verizon Global Funding Corp., and U.S. Bank National Association, as successor trustee to Wachovia Bank, National Association, formerly known as First Union National Bank, as Trustee, dated as of February 1, 2006 (incorporated by reference to Form 8-K filed on February 9, 2006, Exhibit 4.2).
<a href="#">4e</a>	Fourth Supplemental Indenture between Verizon, both individually and as successor in interest to Verizon Global Funding Corp., and U.S. Bank National Association, as successor trustee to Wachovia Bank, National Association, formerly known as First Union National Bank, as Trustee, dated as of April 4, 2016 (incorporated by reference to Verizon Communications Inc.'s Registration Statement on Form S-4, Registration No. 333-212307, Exhibit 4.5).
	Except for Exhibits 4a – 4e above, no other instrument which defines the rights of holders of long-term debt of Verizon and its consolidated subsidiaries is filed herewith pursuant to Regulation S-K, Item 601(b)(4)(iii)(A). Pursuant to this regulation, Verizon hereby agrees to furnish a copy of any such instrument to the SEC upon request.
<a href="#">4f</a>	Description of Verizon's Securities Registered Pursuant to Section 12 of the Securities and Exchange Act of 1934, filed herewith.
<a href="#">10a</a>	NYNEX Directors' Charitable Award Program (filed as Exhibit 10i to Form 10-K for the year ended December 31, 2000 and incorporated herein by reference).**
<a href="#">10b</a>	2009 Verizon Long-Term Incentive Plan, As Amended and Restated (incorporated by reference to Appendix D of the Registrant's Proxy Statement included in Schedule 14A filed on March 18, 2013).**
<a href="#">10b(i)</a>	Form of Performance Stock Unit Agreement 2016-2018 Award Cycle (filed as Exhibit 10a to Form 10-Q for the period ended March 31, 2016 and incorporated herein by reference).**
<a href="#">10b(ii)</a>	Form of Restricted Stock Unit Agreement 2016-2018 Award Cycle (filed as Exhibit 10b to Form 10-Q for the period ended March 31, 2016 and incorporated herein by reference).**
<a href="#">10b(iii)</a>	Form of 2017 Performance Stock Unit Agreement pursuant to the 2009 Verizon Communications Inc. Long-Term Incentive Plan. (filed as Exhibit 10a to Form 10-Q for the period ended March 31, 2017 and incorporated herein by reference).**
<a href="#">10b(iv)</a>	Form of 2017 Restricted Stock Unit Agreement pursuant to the 2009 Verizon Communications Inc. Long-Term Incentive Plan (filed as Exhibit 10b to Form 10-Q for the period ended March 31, 2017 and incorporated herein by reference).**
<a href="#">10b(v)</a>	2017 Special Performance Stock Unit Agreement pursuant to the 2009 Verizon Communications Inc. Long-Term Incentive Plan for J. Stratton (filed as Exhibit 10c to Form 10-Q for the period ended March 31, 2017 and incorporated herein by reference).**
<a href="#">10c</a>	2017 Verizon Communications Inc. Long-Term Incentive Plan (incorporated by reference to Appendix B of the Registrant's Proxy Statement included in Schedule 14A filed on March 20, 2017).**
<a href="#">10c(i)</a>	Form of 2017 Performance Stock Unit Agreement pursuant to the 2017 Verizon Communications Inc. Long-Term Incentive Plan. (filed as Exhibit 10a to Form 10-Q for the period ended June 30, 2017 and incorporated herein by reference).**
<a href="#">10c(ii)</a>	Form of 2017 Restricted Stock Unit Agreement pursuant to the 2017 Verizon Communications Inc. Long-Term Incentive Plan (filed as Exhibit 10b to Form 10-Q for the period ended June 30, 2017 and incorporated herein by reference).**
<a href="#">10c(iii)</a>	2017 Special Restricted Stock Unit Agreement pursuant to the 2017 Verizon Communications Inc. Long-Term Incentive Plan (filed as Exhibit 10c to Form 10-Q for the period ended June 30, 2017 and incorporated herein by reference).**

<a href="#">10c(iv)</a>	Form of 2017 Restricted Stock Unit Agreement (cash-settled) pursuant to the 2017 Verizon Communications Inc. Long-Term Incentive Plan (filed as Exhibit 10c(iv) to Form 10-K for period ended December 31, 2017 and incorporated herein by reference).**
<a href="#">10c(v)</a>	Form of 2018 Performance Stock Unit Agreement pursuant to the 2017 Verizon Communications Inc. Long-Term Incentive Plan (filed as Exhibit 10a to Form 10-Q for the period ended March 31, 2018 and incorporated herein by reference).**
<a href="#">10c(vi)</a>	Form of 2018 Restricted Stock Unit Agreement pursuant to the 2017 Verizon Communications Inc. Long-Term Incentive Plan. (filed as Exhibit 10b to Form 10-Q for the period ended March 31, 2018 and incorporated herein by reference).**
<a href="#">10c(vii)</a>	2018 Special Performance Stock Unit Agreement pursuant to the 2017 Verizon Communications Inc. Long-Term Incentive Plan for H. Vestberg (filed as Exhibit 10 to Form 10-Q for the period ended September 30, 2018 and incorporated herein by reference).**
<a href="#">10c(viii)</a>	2018 Restricted Stock Unit Agreement for G. Gowrappan pursuant to the 2017 Verizon Communications Inc. Long-Term Incentive Plan (filed as Exhibit 10c(viii) to Form 10-K for the period ended December 31, 2018 and incorporated herein by reference).**
<a href="#">10c(ix)</a>	Special Performance Restricted Stock Unit Agreement for R. Dunne pursuant to the 2017 Verizon Communications Inc. Long-Term Incentive Plan (filed as Exhibit 10c(ix) to Form 10-K for the period ended December 31, 2018 and incorporated herein by reference).**
<a href="#">10c(x)</a>	Special Performance Restricted Stock Unit Agreement for G. Gowrappan pursuant to the 2017 Verizon Communications Inc. Long-Term Incentive Plan (filed as Exhibit 10c(x) to Form 10-K for the period ended December 31, 2018 and incorporated herein by reference).**
<a href="#">10c(x)(i)</a>	Amendment to Special Performance Restricted Stock Unit Agreement for G. Gowrappan pursuant to the 2017 Verizon Communications Inc. Long-Term Incentive Plan (filed as Exhibit 10c(x)(i) to Form 10-K for the period ended December 31, 2018 and incorporated herein by reference).**
<a href="#">10c(xii)</a>	Form of 2019 Performance Stock Unit Agreement pursuant to the 2017 Verizon Communications Inc. Long-Term Incentive Plan (filed as Exhibit 10b to Form 10-Q for the period ended March 31, 2019 and incorporated herein by reference).**
<a href="#">10c(xiii)</a>	Form of 2019 Restricted Stock Unit Agreement pursuant to the 2017 Verizon Communications Inc. Long-Term Incentive Plan (filed as Exhibit 10c to Form 10-Q for the period ended March 31, 2019 and incorporated herein by reference).**
<a href="#">10d</a>	Verizon Communications Inc. Short-Term Incentive Plan (filed as Exhibit 10a to Form 10-Q for the period ended March 31, 2019 and incorporated herein by reference).**
<a href="#">10e</a>	Verizon Executive Deferral Plan (filed as Exhibit 10e to Form 10-K for the period ended December 31, 2017 and incorporated herein by reference).**
<a href="#">10f</a>	Verizon Income Deferral Plan (filed as Exhibit 10f to Form 10-Q for the period ended June 30, 2002 and incorporated herein by reference).**
<a href="#">10f(i)</a>	Description of Amendment to Plan (filed as Exhibit 10o(i) to Form 10-K for the year ended December 31, 2004 and incorporated herein by reference).**
<a href="#">10g</a>	Verizon Excess Pension Plan (filed as Exhibit 10p to Form 10-K for the year ended December 31, 2004 and incorporated herein by reference).**
<a href="#">10g(i)</a>	Description of Amendment to Plan (filed as Exhibit 10p(i) to Form 10-K for the year ended December 31, 2004 and incorporated herein by reference).**
<a href="#">10h</a>	GTE's Executive Salary Deferral Plan, as amended (filed as Exhibit 10.10 to GTE's Form 10-K for the year ended December 31, 1998, File No. 1-2755 and incorporated herein by reference).**
<a href="#">10i</a>	Bell Atlantic Senior Management Long-Term Disability and Survivor Protection Plan, as amended (filed as Exhibit 10h to Form SE filed on March 27, 1986 and Exhibit 10b(ii) to Form 10-K for the year ended December 31, 1997 and incorporated herein by reference).**
<a href="#">10j</a>	GTE Executive Retiree Life Insurance Plan (filed as Exhibit 10q to Form 10-K for the year ended December 31, 2010 and incorporated herein by reference).**
<a href="#">10k</a>	Verizon Executive Life Insurance Plan, As Amended and Restated September 2009 (filed as Exhibit 10s to Form 10-K for the year ended December 31, 2010 and incorporated herein by reference).**
<a href="#">10l</a>	Form of Aircraft Time Sharing Agreement (filed as Exhibit 10l to Form 10-K for year ended December 31, 2017 and incorporated herein by reference).**
<a href="#">10m</a>	NYNEX Deferred Compensation Plan for Non-Employee Directors (filed as Exhibit 10iii 5a to NYNEX's Quarterly Report on Form 10-Q for the period ended June 30, 1996, File No. 1-8608 and incorporated herein by reference).**



<a href="#">10n</a>	Verizon Senior Manager Severance Plan (filed as Exhibit 10d to Form 10-Q for the period ended March 31, 2010 and incorporated herein by reference).**
<a href="#">10o</a>	AOL Inc. Long-Term Incentive Plan (filed as Exhibit 10o to Form 10-K for the period ended December 31, 2018 and incorporated herein by reference).**
<a href="#">10o(i)</a>	Founders' Grant Unit Agreement for T. Armstrong pursuant to the AOL Inc. Long-Term Incentive Plan (filed as Exhibit 10o(i) to Form 10-K for the period ended December 31, 2018 and incorporated herein by reference).**
<a href="#">13</a>	Portions of Verizon's Annual Report to Shareholders for the fiscal year ended December 31, 2019 filed herewith. Only the information incorporated by reference into this Form 10-K is included in the exhibit.
<a href="#">21</a>	List of principal subsidiaries of Verizon, filed herewith.
<a href="#">23</a>	Consent of Ernst & Young LLP, filed herewith.
<a href="#">24</a>	Powers of Attorney, filed herewith.
<a href="#">31.1</a>	Certification of Chief Executive Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002, filed herewith.
<a href="#">31.2</a>	Certification of Chief Financial Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002, filed herewith.
<a href="#">32.1</a>	Certification of Chief Executive Officer pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, filed herewith.
<a href="#">32.2</a>	Certification of Chief Financial Officer pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, filed herewith.
101.INS	XBRL Instance Document - the instance document does not appear in the interactive data file because its XBRL tags are embedded within the inline XBRL document.
101.SCH	XBRL Taxonomy Extension Schema Document.
101.PRE	XBRL Taxonomy Presentation Linkbase Document.
101.CAL	XBRL Taxonomy Calculation Linkbase Document.
101.LAB	XBRL Taxonomy Label Linkbase Document.
101.DEF	XBRL Taxonomy Extension Definition Linkbase Document.
104	Cover Page Interactive Data File (formatted as inline XBRL with applicable taxonomy extension information contained in Exhibits 101).
**	Indicates management contract or compensatory plan or arrangement.

## Schedule II - Valuation and Qualifying Accounts

### Verizon Communications Inc. and Subsidiaries

For the Years Ended December 31, 2019, 2018 and 2017

(dollars in millions)

Description	Balance at Beginning of Period	Additions			Deductions <sup>(b)</sup>	Balance at End of Period <sup>(c)</sup>
		Charged to Expenses	Charged to Other Accounts <sup>(a)</sup>			
Allowance for Uncollectible Accounts Receivable:						
Year 2019	\$ 930	\$ 1,441	\$ 133	\$ 1,644	\$ 860	
Year 2018	1,199	776	216	1,261	930	
Year 2017	1,146	1,167	205	1,319	1,199	

Description	Balance at Beginning of Period	Additions			Deductions <sup>(e)</sup>	Balance at End of Period
		Charged to Expenses		Charged to Other Accounts <sup>(d)</sup>		
Valuation Allowance for Deferred Tax Assets:						
Year 2019	\$ 2,741	\$ 402	\$ 8	\$ 891	\$ 2,260	
Year 2018	3,293	251	112	915	2,741	
Year 2017	2,473	765	273	218	3,293	

<sup>(a)</sup> Charged to Other Accounts primarily includes amounts previously written off which were credited directly to this account when recovered.

<sup>(b)</sup> Deductions primarily include amounts written off as uncollectible or transferred to other accounts or utilized.

<sup>(c)</sup> Allowance for Uncollectible Accounts Receivable includes approximately \$127 million, \$165 million and \$260 million at December 31, 2019, 2018, and 2017, respectively, related to long-term device payment plan receivables.

<sup>(d)</sup> Charged to Other Accounts includes current year increase to valuation allowance charged to equity and reclassifications from other balance sheet accounts.

<sup>(e)</sup> Reductions to valuation allowances related to deferred tax assets.

**Item 16. Form 10-K Summary**

None.

**Signatures**

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

VERIZON COMMUNICATIONS INC.

By: /s/ Anthony T. Skiadas  
Anthony T. Skiadas  
Senior Vice President and Controller

Date: February 21, 2020

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the dates indicated.

Principal Executive Officer:

/s/ Hans E. Vestberg Chairman and  
Hans E. Vestberg Chief Executive Officer

February 21, 2020

Principal Financial Officer:

/s/ Matthew D. Ellis Executive Vice President and  
Matthew D. Ellis Chief Financial Officer

February 21, 2020

Principal Accounting Officer:

/s/ Anthony T. Skiadas Senior Vice President and  
Anthony T. Skiadas Controller

February 21, 2020

<div><div>*</div><div>Hans E. Vestberg</div></div>	Director	February 21, 2020
<div><div>*</div><div>Shellye L. Archambeau</div></div>	Director	February 21, 2020
<div><div>*</div><div>Mark T. Bertolini</div></div>	Director	February 21, 2020
<div><div>*</div><div>Vittorio Colao</div></div>	Director	February 21, 2020
<div><div>*</div><div>Melanie L. Healey</div></div>	Director	February 21, 2020
<div><div>*</div><div>Clarence Otis, Jr.</div></div>	Director	February 21, 2020
<div><div>*</div><div>Daniel H. Schulman</div></div>	Director	February 21, 2020
<div><div>*</div><div>Rodney E. Slater</div></div>	Director	February 21, 2020
<div><div>*</div><div>Kathryn A. Tesija</div></div>	Director	February 21, 2020
<div><div>*</div><div>Carol B. Tomé</div></div>	Director	February 21, 2020
<div><div>*</div><div>Gregory G. Weaver</div></div>	Director	February 21, 2020
<div><div>* By: /s/ Anthony T. Skiadas</div><div>Anthony T. Skiadas</div><div>(as attorney-in-fact)</div></div>		

**DESCRIPTION OF VERIZON'S SECURITIES  
REGISTERED PURSUANT TO SECTION 12 OF  
THE SECURITIES EXCHANGE ACT OF 1934**

As of December 31, 2019, Verizon Communications Inc. had the following twenty-one classes of securities registered under Section 12 of the Securities Exchange Act of 1934, as amended: (i) common stock, \$0.10 par value per share ("Common Stock"), (ii) 2.375% Notes due 2022 (the "2.375% 2022 Notes"), (iii) 0.500% Notes due 2022 (the "0.500% 2022 Notes"), (iv) 1.625% Notes due 2024 (the "1.625% 2024 Notes"), (v) 4.073% Notes due 2024 (the "4.073% 2024 Notes"), (vi) 0.875% Notes due 2025 (the "2025 Notes"), (vii) 3.250% Notes due 2026 (the "3.250% 2026 Notes"), (viii) 1.375% Notes due 2026 (the "1.375% 2026 Notes"), (ix) 0.875% Notes due 2027 (the "2027 Notes"), (x) 1.375% Notes due 2028 (the "2028 Notes"), (xi) 1.875% Notes due 2029 (the "2029 Notes"), (xii) 1.250% Notes due 2030 (the "1.250% 2030 Notes"), (xiii) 1.875% Notes due 2030 (the "1.875% 2030 Notes"), (xiv) 2.625% Notes due 2031 (the "2.625% 2031 Notes"), (xv) 2.500% Notes due 2031 (the "2.500% 2031 Notes"), (xvi) 0.875% Notes due 2032 (the "2032 Notes"), (xvii) 4.750% Notes due 2034 (the "2034 Notes"), (xviii) 3.125% Notes due 2035 (the "2035 Notes"), (xix) 3.375% Notes due 2036 (the "2036 Notes"), (xx) 2.875% Notes due 2038 (the "2038 Notes") and (xxi) 1.500% Notes due 2039 (the "2039 Notes," and together with the 2.375% 2022 Notes, the 0.500% 2022 Notes, the 1.625% 2024 Notes, the 4.073% 2024 Notes, the 2025 Notes, the 3.250% 2026 Notes, the 1.375% 2026 Notes, the 2027 Notes, the 2028 Notes, the 2029 Notes, the 1.250% 2030 Notes, the 1.875% 2030 Notes, the 2.625% 2031 Notes, the 2.500% 2031 Notes, the 2032 Notes, the 2034 Notes, the 2035 Notes, the 2036 Notes and the 2038 Notes, the "Notes"). In this exhibit, "we," "our," "us" and "Verizon Communications" refer to Verizon Communications Inc.

### **COMMON STOCK**

Our restated certificate of incorporation provides authority to issue up to 6,500,000,000 shares of stock of all classes, of which 6,250,000,000 are shares of Common Stock, and 250,000,000 are shares of preferred stock, \$0.10 par value per share.

Subject to any preferential rights of the preferred stock, holders of shares of our Common Stock are entitled to receive dividends on that stock out of assets legally available for distribution when, as and if authorized and declared by the board of directors and to share ratably in assets legally available for distribution to our shareholders in the event of our liquidation, dissolution or winding-up. We may not pay any dividend or make any distribution of assets on shares of Common Stock until cumulative dividends on shares of preferred stock then outstanding, if any, having dividend or distribution rights senior to the Common Stock have been paid.

Holders of Common Stock are entitled to one vote per share on all matters voted on generally by the shareholders, including the election of directors. In addition, the holders of Common Stock possess all voting power except as otherwise required by law or except as provided for by any series of preferred stock. Our restated certificate of incorporation does not provide for cumulative voting for the election of directors.

No holder of any shares of Common Stock has any preemptive or preferential right to acquire or subscribe for any unissued shares of any class of stock or any authorized securities convertible into or carrying any right, option or warrant to subscribe for or acquire shares of any class of stock.

The Common Stock is listed on the New York Stock Exchange and the NASDAQ Global Select Market under the symbol "VZ."

Our board of directors is authorized at any time to provide for the issuance of all or any shares of our preferred stock in one or more classes or series, and to fix for each class or series voting powers, full or limited, or no voting powers, and distinctive designations, preferences and relative, participating, optional or other special rights and any qualifications, limitations or restrictions, as shall be stated and expressed in the resolution or resolutions adopted by the board of directors providing for the issuance of the preferred stock and to the fullest extent as may be permitted by Delaware law. This authority includes, but is not limited to, the authority to provide that any class or series be:

- subject to redemption at a specified time or times and at a specified price or prices;
- entitled to receive dividends (which may be cumulative or non-cumulative) at specified rates, on specified conditions and at specified times, and payable in preference to, or in relation to, the dividends payable on any other class or classes or any other series;
- entitled to rights upon the dissolution of, or upon any distribution of the assets of, Verizon Communications; or
- convertible into, or exchangeable for, shares of any class or classes of our stock, or our other securities or property, at a specified price or prices or at specified rates of exchange and with any specified adjustments.

Although no shares of preferred stock are outstanding as of December 31, 2019, in the event of the issuance of any shares of preferred stock, the rights evidenced by, or amounts payable with respect to, the Common Stock may be materially limited or qualified by the terms of such preferred stock.

### **NOTES**

The following description of the Notes is a summary and does not purport to be complete. This description is qualified in its entirety by reference to the indenture between the Company and U.S. Bank National Association (as successor to Wachovia Bank, National Association,

formerly known as First Union National Bank), as trustee, dated as of December 1, 2000, as amended (the “Indenture”) and the terms of the global securities representing the Notes.

#### Principal Amount, Maturity, Interest and Listing

The following table sets forth for each series of Notes the applicable date of initial issuance, principal amount initially issued, principal amount outstanding as of December 31, 2019, maturity date, interest rate per annum, interest payment and record dates, and New York Stock Exchange listing symbol:

Notes	Date of Initial Issuance	Principal Amount Initially Issued	Principal Amount Outstanding as of 12/31/2019	Maturity Date	Interest Rate Per Annum	Interest Payment Date	Record Date	NYSE Listing Symbol
<b>2.375% 2022 Notes</b>	February 12, 2014	€1,750,000,000	€935,347,000	February 17, 2022	2.375%	February 17	February 3	VZ22A
<b>0.500% 2022 Notes</b>	November 2, 2016	€1,000,000,000	€453,963,000	June 2, 2022	0.500%	June 2	May 19	VZ22B
<b>1.625% 2024 Notes</b>	December 1, 2014	€1,400,000,000	€684,827,000	March 1, 2024	1.625%	March 1	February 15	VZ24B
<b>4.073% 2024 Notes</b>	June 18, 2014	£694,804,000	£412,534,000	June 18, 2024	4.073%	June 18	June 4	VZ24C
<b>2025 Notes</b>	November 2, 2016	€1,000,000,000	€1,000,000,000	April 2, 2025	0.875%	April 2	March 19	VZ25
<b>3.250% 2026 Notes</b>	February 12, 2014	€1,250,000,000	€1,250,000,000	February 17, 2026	3.250%	February 17	February 3	VZ26
<b>1.375% 2026 Notes</b>	October 27, 2017	€1,250,000,000	€1,250,000,000	October 27, 2026	1.375%	October 27	October 12	VZ26B
<b>2027 Notes</b>	April 8, 2019	€1,250,000,000	€1,250,000,000	April 8, 2027	0.875%	April 8	March 24	VZ27E
<b>2028 Notes</b>	November 2, 2016	€1,250,000,000	€1,250,000,000	November 2, 2028	1.375%	November 2	October 19	VZ28
<b>2029 Notes</b>	October 27, 2017	€750,000,000	€750,000,000	October 26, 2029	1.875%	October 26	October 11	VZ29B
<b>1.250% 2030 Notes</b>	April 8, 2019	€1,250,000,000	€1,250,000,000	April 8, 2030	1.250%	April 8	March 24	VZ30
<b>1.875% 2030 Notes</b>	September 19, 2019	£550,000,000	£550,000,000	September 19, 2030	1.875%	September 19	September 4	VZ30A
<b>2.625% 2031 Notes</b>	December 1, 2014	€1,000,000,000	€1,000,000,000	December 1, 2031	2.625%	December 1	November 15	VZ31
<b>2.500% 2031 Notes</b>	April 8, 2019	£500,000,000	£500,000,000	April 8, 2031	2.500%	April 8	March 24	VZ31A
<b>2032 Notes</b>	September 19, 2019	€800,000,000	€800,000,000	March 19, 2032	0.875%	March 19	March 4	VZ32
<b>2034 Notes</b>	February 12, 2014	£850,000,000	£456,624,000	February 17, 2034	4.750%	February 17	February 3	VZ34
<b>2035 Notes</b>	November 2, 2016	£450,000,000	£450,000,000	November 2, 2035	3.125%	November 2	October 19	VZ35
<b>2036 Notes</b>	October 27, 2017	€1,000,000,000	€1,000,000,000	October 27, 2036	3.375%	October 27	October 12	VZ36A
<b>2038 Notes</b>	October 27, 2017	€1,500,000,000	€1,500,000,000	January 15, 2038	2.875%	January 15	January 1	VZ38B
<b>2039 Notes</b>	September 19, 2019	€500,000,000	€500,000,000	September 19, 2039	1.500%	September 19	September 4	VZ39C

Interest on each series of Notes is payable annually in arrears and will be computed on the basis of the actual number of days in the period for which interest is being calculated and the actual number of days from and including the last date on which interest was paid on such series (or the date of initial issuance of such series, if no interest has been paid on such series), to but excluding the next scheduled interest payment date. This payment convention is referred to as ACTUAL/ACTUAL (ICMA) as defined by the rulebook of the International Capital Market Association.

If interest or principal on any of the 2.375% 2022 Notes, 0.500% 2022 Notes, 1.625% 2024 Notes, 2025 Notes, 3.250% 2026 Notes, 1.375% 2026 Notes, 2027 Notes, 2028 Notes, 2029 Notes, 1.250% 2030 Notes, 2.625% 2031 Notes, 2032 Notes, 2038 Notes and 2039 Notes (collectively, the “Euro Notes”) is payable on a Saturday, Sunday or any other day when commercial banks are not open for business in The City of New York or London or any day on which the Trans-European Automated Real-time Gross settlement Express Transfer payment system or any successor thereto is not open for transfer of payments, we will make the payment on the next succeeding business day in such locations, and no additional interest will accrue as a result of the delay in payment. If interest or principal on any of the 4.073% 2024 Notes, 1.875% 2030 Notes, 2.500% 2031 Notes, 2034 Notes, 2035 Notes and 2036 Notes (collectively, the “Sterling Notes”) is payable on a Saturday, Sunday or any other day when commercial banks are not open for business in The City of New York or London, we will make the payment on the next business day in such locations, and no additional interest will accrue as a result of the delay in payment.

We may issue additional Notes of any series in the future.

## Ranking

Each series of Notes is unsecured and ranks equally with all of our unsecured and unsubordinated indebtedness.

## Currency Conversion

All payments of principal, interest and additional amounts, if any, including any payments made upon any redemption, on the Euro Notes will be payable in euro.

All payments of principal, interest and additional amounts, if any, including any payments made upon any redemption, on the Sterling Notes will be payable in GBP.

If either euro or GBP, as applicable, is unavailable to us due to the imposition of exchange controls or other circumstances beyond our control (including the dissolution of the euro), then all payments in respect of the relevant Notes will be made in U.S. dollars until euro or GBP, as the case may be, is again available to us. The amount payable on any date in euro or GBP, as applicable, will be converted into U.S. dollars at a rate mandated by the U.S. Federal Reserve Board as of the close of business on the second business day prior to the relevant payment date or, in the event the U.S. Federal Reserve Board has not mandated a rate of conversion, on the basis of the latest U.S. dollar/euro exchange rate or U.S. dollar/GBP exchange rate, as applicable, available on or prior to the second business day prior to the relevant payment date as determined by us in our sole discretion. Any payment in respect of the Notes alternatively made in U.S. dollars will not constitute an event of default under the Notes or the Indenture.

## Optional Redemption

**2.375% 2022 Notes, 0.500% 2022 Notes, 1.625% 2024 Notes, 4.073% 2024 Notes, 2025 Notes, 3.250% 2026 Notes, 1.375% 2026 Notes, 2028 Notes, 2029 Notes, 2.625% 2031 Notes, 2034 Notes, 2035 Notes, 2036 Notes and 2038 Notes**

We have the option to redeem each of the 2.375% 2022 Notes, 0.500% 2022 Notes, 1.625% 2024 Notes, 4.073% 2024 Notes, 2025 Notes, 3.250% 2026 Notes, 1.375% 2026 Notes, 2028 Notes, 2029 Notes, 2.625% 2031 Notes, 2034 Notes, 2035 Notes, 2036 Notes and 2038 Notes on not less than 30 nor more than 60 days’ notice, in whole or in part, at any time prior to maturity, at a redemption price equal to the greater of:

- (i) 100% of the principal amount of the Notes of such series being redeemed, or
- (ii) the sum of the present values of the remaining scheduled payments of principal and interest on the Notes of such series being redeemed (exclusive of interest accrued to the date of redemption), as the case may be, discounted to the date of redemption on an annual basis (ACTUAL/ACTUAL (ICMA)) at (A) the Comparable Government Bond Rate plus 20 basis points for the 2.375% due 2022 Notes, (B) the Comparable Government Bond Rate plus 15 basis points for the 0.500% 2022 Notes, (C) the Comparable Government Bond Rate plus 15 basis points for the 1.625% 2024 Notes, (D) the Comparable Government Bond Rate plus 25 basis points for the 4.073% 2024 Notes, (E) the Comparable Government Bond Rate plus 20 basis points for the 2025 Notes, (F) the Comparable Government Bond Rate plus 25 basis points for the 3.250% 2026 Notes, (G) the Comparable Government Bond Rate plus 20 basis points for the 1.375% 2026 Notes, (H) the Comparable Government Bond Rate plus 20 basis points for the 2028 Notes, (I) the Comparable Government Bond Rate plus 25 basis points for the 2029 Notes, (J) the Comparable Government Bond Rate plus 25 basis points for the 2.625% 2031 Notes, (K) the Comparable Government Bond Rate plus 25 basis points for the 2034 Notes, (L) the Comparable Government Bond Rate plus 25 basis points for the 2035 Notes, (M) the Comparable Government Bond Rate plus 25 basis points for the 2036 Notes and (N) the Comparable Government Bond Rate plus 30 basis points for the 2038 Notes,

plus, in each case, accrued and unpaid interest on the principal amount being redeemed to, but excluding, the date of redemption.

**2027 Notes, 1.250% 2030 Notes, 1.875% 2030 Notes, 2.500% 2031 Notes, 2032 Notes and 2039 Notes**

We have the option to redeem the 2027 Notes, 1.250% 2030 Notes, 1.875% 2030 Notes, 2.500% 2031 Notes, 2032 Notes and 2039 Notes on not less than 10 nor more than 60 days’ notice, in whole or in part,

- (i) at any time prior to (A) January 8, 2027 (three months prior to the maturity date of the 2027 Notes) (the “2027 Notes par call date”) with respect to the 2027 Notes, (B) January 8, 2030 (three months prior to the maturity date of the 1.250% 2030 Notes) (the “1.250% 2030 Notes par call date”) with respect to the 1.250% 2030 Notes (C) June 19, 2030 (three months prior to the maturity date of the 1.875% 2030 Notes) (the “1.875% 2030 Notes par call date”) with respect to the 1.875% 2030 Notes (D) January 8, 2031 (three months prior to the maturity date of the 2.500% 2031 Notes) (the “2.500% 2031

Notes par call date”) with respect to the 2.500% 2031 Notes, (E) December 19, 2031 (three months prior to the maturity date of the 2032 Notes) (the “2032 Notes par call date”) with respect to the 2032 Notes and (F) March 19, 2039 (six months prior to the maturity date of the 2039 Notes) (the “2039 Notes par call date”) with respect to the 2039 Notes, at a redemption price equal to the greater of:

(a) 100% of the principal amount of the Notes of such series being redeemed, or

(b) the sum of the present values of the remaining scheduled payments of principal and interest on the Notes of such series being redeemed (exclusive of interest accrued to the date of redemption), assuming for such purpose that the (A) 2027 Notes matured on the 2027 Notes par call date, (B) 1.250% 2030 Notes matured on the 1.250% 2030 Notes par call date, (C) 1.875% 2030 Notes matured on the 1.875% 2030 Notes par call date, (D) 2.500% 2031 Notes matured on the 2.500% 2031 par call date, (E) 2032 Notes matured on the 2032 Notes par call date and (F) 2039 Notes matured on the 2039 Notes par call date, discounted to the date of redemption on an annual basis (ACTUAL/ACTUAL (ICMA)) at (AA) the Comparable Government Bond Rate plus 20 basis points for the 2027 Notes, (BB) the Comparable Government Bond Rate plus 25 basis points for the 1.250% 2030 Notes, (CC) the Comparable Government Bond Rate plus 25 basis points for the 1.875% 2030 Notes, (DD) the Comparable Government Bond Rate plus 25 basis points for the 2.500% 2031 Notes, (EE) at the Comparable Government Bond Rate plus 25 basis points for the 2032 Notes and (FF) the Comparable Government Bond Rate plus 30 basis points for the 2039 Notes; and

(ii) at any time on or after (A) the 2027 Notes par call date with respect to the 2027 Notes, (B) the 1.250% 2030 Notes par call date with respect to the 1.250% 2030 Notes, (C) the 1.875% 2030 Notes par call date with respect to the 1.875% 2030 Notes, (D) the 2.500% 2031 Notes par call date with respect to the 2.500% 2031 Notes (E) the 2032 Notes par call date with respect to the 2032 Notes and (F) the 2039 Notes par call date with respect to the 2039 Notes, at a redemption price equal to 100% of the principal amount of the Notes of such series being redeemed,

plus, in each case, accrued and unpaid interest on the principal amount of such series being redeemed to, but excluding, the date of redemption.

### **Defined Terms**

The “Comparable Government Bond Rate” will be determined on the third business day preceding the redemption date and means, with respect to any date of redemption, the rate per annum equal to the yield to maturity calculated in accordance with customary financial practice in pricing new issues of comparable corporate debt securities paying interest on an annual basis (ACTUAL/ACTUAL (ICMA)) of the applicable Comparable Government Bond, assuming a price for the applicable Comparable Government Bond (expressed as a percentage of its principal amount) equal to the applicable Comparable Government Bond Price for such date of redemption.

“Calculation Agent” means an independent investment banking or commercial banking institution of international standing appointed by us.

“Comparable Government Bond” means (i) with respect to any series of Euro Notes, the Federal Republic of Germany government security or securities selected by one of the Reference Government Bond Dealers appointed by us as having an actual or interpolated maturity comparable with the remaining term of such series of Euro Notes that would be utilized, at the time of selection and in accordance with customary financial practice, in pricing new issues of euro-denominated corporate debt securities of a maturity comparable to the remaining term of such series of Euro Notes and (ii) with respect to any series of Sterling Notes, the United Kingdom government security or securities selected by one of the Reference Government Bond Dealers appointed by us as having an actual or interpolated maturity comparable with the remaining term of such series of Sterling Notes that would be utilized, at the time of selection and in accordance with customary financial practice, in pricing new issues of sterling-denominated corporate debt securities of a maturity comparable to the remaining term of such series of Sterling Notes.

“Comparable Government Bond Price” means, with respect to any redemption date, (A) the arithmetic average of the Reference Government Bond Dealer Quotations for such redemption date, after excluding the highest and lowest such Reference Government Bond Dealer Quotations, or (B) if the Calculation Agent obtains fewer than four such Reference Government Bond Dealer Quotations, the arithmetic average of all such quotations.

“Reference Government Bond Dealer” means each of five banks selected by us, which are (A) primary European government securities dealers, and their respective successors, or (B) market makers in pricing corporate bond issues.

“Reference Government Bond Dealer Quotations” means, with respect to each Reference Government Bond Dealer and any redemption date, the arithmetic average, as determined by the Calculation Agent, of the bid and offered prices for the applicable Comparable Government Bond (expressed in each case as a percentage of its principal amount) at 11:00 a.m., Central European Time (or in the case of the 4.073% 2024 Notes, London Time), on the third business day preceding such date for redemption quoted in writing to the Calculation Agent by such Reference Government Bond Dealer.

### **Tax Redemption**

#### **2.375% 2022 Notes, 1.625% 2024 Notes, 4.073% 2024 Notes, 3.250% 2026 Notes, 2.625% 2031 Notes and 2034 Notes**

Each of the 2.375% 2022 Notes, 1.625% 2024 Notes, 4.073% 2024 Notes, 3.250% 2026 Notes, 2.625% 2031 Notes and 2034 Notes may be redeemed at our option, in whole but not in part, at any time on giving not less than 30 nor more than 60 days’ notice to the noteholders (which notice shall be irrevocable), at their principal amount, together with interest accrued to, but excluding, the date fixed for redemption, if:



- (i) we have or will become obliged to pay additional amounts with respect to such series of Notes as provided or referred to under “-Withholding Taxes-2.375% 2022 Notes, 4.073% 2024 Notes, 3.250% 2026 Notes and 2034 Notes” below in the case of the 2.375% 2022 Notes, 1.625% 2024 Notes, 4.073% 2024 Notes, 3.250% 2026 Notes, 2.625% 2031 Notes and 2034 Notes, or under “-Withholding Taxes-1.625% 2024 Notes and 2.625% 2031 Notes” below in the case of the 1.625% 2024 Notes and 2.625% 2031 Notes, as a result of any change in, or amendment to, the laws, treaties, or rulings of the United States or any political subdivision or any authority thereof or therein having the power to tax, or any change in the application or official interpretation of such laws or regulations or rulings (including a holding by a court of competent jurisdiction in the United States), which change or amendment is enacted or adopted on or after the issue date of such series of Notes; provided that, prior to the publication of any notice of redemption pursuant to this paragraph, we have delivered to the trustee a certificate signed by one of our officers stating that we are entitled to effect such redemption and setting forth a statement of facts showing that the conditions precedent to our right so to redeem have occurred; or
- (ii) on or after the issue date of such series of Notes, any action is taken by a taxing authority of, or any decision has been rendered by a court of competent jurisdiction in, the United States or any political subdivision of or in the United States or any authority thereof or therein having the power to tax, including any of those actions specified in clause (i) above, whether or not such action was taken or decision was rendered with respect to us, or any change, amendment, application or interpretation is officially proposed, which, in any such case, in the written opinion of independent tax counsel of nationally recognized standing, will result in a material probability that we will become obliged to pay additional amounts with respect to such series of Notes; provided that, prior to the publication of any notice of redemption pursuant to this paragraph, we have delivered to the trustee a certificate signed by one of our officers stating that we are entitled to effect such redemption and setting forth a statement of facts showing that the conditions precedent to our right so to redeem have occurred. However, no such notice of redemption shall be given less than 30 or more than 90 days prior to the earliest date on which we would be obliged to pay such additional amounts if a payment in respect of such series of Notes were then due.

***0.500% 2022 Notes, 2025 Notes, 1.375% 2026 Notes, 2027 Notes, 2028 Notes, 2029 Notes, 1.250% 2030 Notes, 1.875% 2030 Notes, 2.500% 2031 Notes, 2032 Notes, 2035 Notes, 2036 Notes, 2038 Notes and 2039 Notes***

Each of the 0.500% 2022 Notes, 2025 Notes, 1.375% 2026 Notes, 2027 Notes, 2028 Notes, 2029 Notes, 1.250% 2030 Notes, 1.875% 2030 Notes, 2.500% 2031 Notes, 2032 Notes, 2035 Notes, 2036 Notes, 2038 Notes and 2039 Notes may be redeemed at our option, in whole but not in part, at any time on giving not less than 30 nor more than 90 days’ notice to the noteholders (which notice shall be irrevocable), at their principal amount, together with interest accrued to the date fixed for redemption, if:

- (i) we have or will become obliged to pay additional amounts with respect to such series of Notes as provided or referred to under “-Withholding Taxes-0.500% 2022 Notes, 2025 Notes, 1.375% 2026 Notes, 2027 Notes, 2028 Notes, 2029 Notes, 1.250% 2030 Notes, 1.875% 2030 Notes, 2.500% 2031 Notes, 2032 Notes, 2035 Notes, 2036 Notes, 2038 Notes and 2039 Notes” below as a result of any change in, or amendment to, the laws, treaties, or rulings of the United States or any political subdivision or any authority thereof or therein having the power to tax, or any change in the application or official interpretation of such laws or regulations or rulings (including a holding by a court of competent jurisdiction in the United States), which change or amendment is enacted or adopted on or after the issue date of such series of Notes; or
- (ii) on or after the issue date of such series of Notes, any action is taken by a taxing authority of, or any decision has been rendered by a court of competent jurisdiction in, the United States or any political subdivision of or in the United States or any authority thereof or therein having the power to tax, including any of those actions specified in clause (i) above, whether or not such action was taken or decision was rendered with respect to us, or any change, amendment, application or interpretation is officially proposed, which, in any such case, will result in a material probability that we will become obliged to pay additional amounts with respect to such series of Notes; provided that, prior to the publication of any notice of redemption pursuant to this paragraph, we have delivered to the trustee a certificate signed by one of our officers stating that we are entitled to effect such redemption and setting forth a statement of facts showing that the conditions precedent to our right so to redeem have occurred and a copy of an opinion of a reputable independent counsel of our choosing to that effect based on that statement of facts. However no such notice of redemption shall be given less than 30 nor more than 90 days prior to the earliest date on which we would be obliged to pay such additional amounts if a payment in respect of such series of Notes were then due.

#### **Withholding Taxes**

For purposes of all clauses described under “-Withholding Taxes”, references to the holder or beneficial owner of a Note include a fiduciary, settlor, beneficiary or person holding power over such holder or beneficial owner, if such holder or beneficial owner is an estate or trust, or a partner, member or shareholder of such holder or beneficial owner, if such holder or beneficial owner is a partnership, limited liability company or corporation. In addition, we will not pay additional amounts to the holder of a Note if such holder or the beneficial owner of such Note is a fiduciary, partnership, limited liability company or other fiscally transparent entity, or if the holder of such Note is not the sole beneficial owner of such Note, as the case may be, to the extent that a beneficiary or settlor with respect to the fiduciary, or a beneficiary, partner or member of the partnership, limited liability company or other fiscally transparent entity, or a beneficial owner would not have been entitled to the payment of an additional amount had the beneficiary, settlor, beneficial owner, partner or member received directly its beneficial or distributive share of the payment. For purposes of “-Withholding Taxes,” the term “Non-U.S. Person” means any person that is, for U.S. federal income tax purposes, a foreign corporation, nonresident alien individual, a nonresident fiduciary of a foreign estate or foreign trust or a foreign partnership one or more of the partners of which is such a foreign corporation, nonresident alien individual or nonresident fiduciary.

Any additional amounts paid pursuant to any clause described under “-Withholding Taxes” on the Euro Notes or the Sterling Notes will be paid in euro or GBP, respectively.

**2.375% 2022 Notes, 4.073% 2024 Notes, 3.250% 2026 Notes and 2034 Notes**

All payments of principal, interest and premium (if any) in respect of the 2.375% 2022 Notes, 4.073% 2024 Notes, 3.250% 2026 Notes and 2034 Notes by us or a paying agent on our behalf shall be made without withholding or deduction for or on account of any present or future taxes, duties, assessments or other governmental charges (“Taxes”) imposed by or on behalf of the United States or any political subdivision thereof or any authority therein or thereof having the power to tax, unless the withholding or deduction of such Taxes is required by law. In that event, we shall pay to a holder that is a Non-U.S. Person such additional amounts as may be necessary to ensure that the net amount received by such holder, after withholding or deduction for or on account of such Taxes, will be equal to the amount such holder would have received in the absence of such withholding or deduction. However, no additional amounts shall be payable with respect to any Note if the beneficial owner is subject to taxation solely for reasons other than its ownership of Notes, nor shall additional amounts be payable for or on account of:

- (i) any Tax that would not have been imposed, withheld or deducted but for any present or former connection (other than the mere fact of being a holder or beneficial owner of such Note) between the holder or the beneficial owner of such Note and the United States or the applicable political subdivision or authority, including, without limitation, such holder or beneficial owner being or having been a citizen or resident of the United States or the applicable political subdivision or authority or treated as being or having been a resident thereof;
- (ii) any Tax that would not have been imposed, withheld or deducted but for the holder or beneficial owner of such Note being or having been with respect to the United States a personal holding company, a controlled foreign corporation, a passive foreign investment company, a foreign private foundation or other foreign tax-exempt organization, or a corporation that accumulates earnings to avoid U.S. federal income tax;
- (iii) any Tax that is payable other than by withholding or deduction by us or a paying agent from payments in respect of such Note;
- (iv) any gift, estate, inheritance, sales, transfer, personal property, excise or similar Tax;
- (v) any Tax that would not have been imposed, withheld or deducted but for a change in any law, treaty, regulation, or administrative or judicial interpretation that becomes effective after the applicable payment becomes due or is duly provided for, whichever occurs later, to the extent such change in law, treaty, regulation or administrative interpretation would apply retroactively to such payment;
- (vi) any Tax that would not have been imposed, withheld or deducted but for the presentation of such Note more than 30 days after the applicable payment becomes due or is duly provided for, whichever occurs later, except to the extent that such holder would have been entitled to such additional amounts on presenting such Note for payment on the last date of such period of 30 days;
- (vii) any Tax that would not have been imposed, withheld or deducted but for the failure of a direct or indirect holder or beneficial owner of such Note to comply with applicable certification, information, documentation or other reporting requirements concerning the nationality, residence, identity or connection with the United States of such holder or beneficial owner;
- (viii) any Tax that would not have been imposed, withheld or deducted but for the failure of the holder or beneficial owner of such Note to meet the requirements (including the statement requirements) of Section 871(h) or Section 881(c) of the Internal Revenue Code of 1986, as amended (the “Code”); or
- (ix) any combination of items (i)-(viii).

**1.625% 2024 Notes and 2.625% 2031 Notes**

All payments of principal, interest and premium (if any) in respect of the 1.625% 2024 Notes and 2.625% 2031 Notes by us or a paying agent on our behalf shall be made without withholding or deduction for or on account of any Taxes imposed by or on behalf of the United States or any political subdivision thereof or any authority therein or thereof having the power to tax, unless the withholding or deduction of such Taxes is required by law. In that event, we shall pay to a holder that is a Non-U.S. Person such additional amounts as may be necessary to ensure that the net amount received by such holder, after withholding or deduction for or on account of such Taxes, will be equal to the amount such holder would have received in the absence of such withholding or deduction. However, no additional amounts shall be payable with respect to any Note if the beneficial owner is subject to taxation solely for reasons other than its ownership of Notes, nor shall additional amounts be payable for or on account of:

- (i) any Tax that would not have been imposed, withheld or deducted but for any present or former connection (other than the mere fact of being a holder or beneficial owner of such Note) between the holder or the beneficial owner of such Note and the United States or the applicable political subdivision or authority, including, without limitation, such holder or beneficial owner being or having been a citizen or resident of the United States or the applicable political subdivision or authority or treated as being or having been a resident thereof;
- (ii) any Tax that would not have been imposed, withheld or deducted but for the holder or beneficial owner of such Note being or having been with respect to the United States a personal holding company, a controlled foreign corporation, a passive

foreign investment company, a foreign private foundation or other foreign tax-exempt organization, or a corporation that accumulates earnings to avoid U.S. federal income tax;

- (iii) any Tax that is payable other than by withholding or deduction by us or a paying agent from payments in respect of such Note;
- (iv) any gift, estate, inheritance, sales, transfer, personal property, excise or similar Tax;
- (v) any Tax that would not have been imposed, withheld or deducted but for a change in any law, treaty, regulation, or administrative or judicial interpretation that becomes effective after the applicable payment becomes due or is duly provided for, whichever occurs later, to the extent such change in law, treaty, regulation or administrative interpretation would apply retroactively to such payment;
- (vi) any Tax that would not have been imposed, withheld or deducted but for the presentation of such Note more than 30 days after the applicable payment becomes due or is duly provided for, whichever occurs later, except to the extent that such holder would have been entitled to such additional amounts on presenting such Note for payment on the last date of such period of 30 days;
- (vii) any Tax that would not have been imposed, withheld or deducted but for the failure of a direct or indirect holder or beneficial owner of such Note to comply with applicable certification, information, documentation or other reporting requirements concerning the nationality, residence, identity or connection with the United States of such holder or beneficial owner;
- (viii) any Tax that would not have been imposed, withheld or deducted but for the failure of the holder or beneficial owner of such Note to meet the requirements (including the statement requirements) of Section 871(h) or Section 881(c) of the Code; or
- (ix) any Tax imposed pursuant to Sections 1471 through 1474 of the Code, any current or future regulations or official interpretations thereof, any agreements entered pursuant to Section 1471(b) of the Code and any intergovernmental agreements (and related legislation or official administrative guidance) implementing the foregoing; or
- (x) any combination of items (i)-(ix).

***0.500% 2022 Notes, 2025 Notes, 1.375% 2026 Notes, 2027 Notes, 2028 Notes, 2029 Notes, 1.250% 2030 Notes, 1.875% 2030 Notes, 2.500% 2031 Notes, 2032 Notes, 2035 Notes, 2036 Notes, 2038 Notes and 2039 Notes***

All payments of principal, interest and premium (if any) in respect of the 0.500% 2022 Notes, 2025 Notes, 1.375% 2026 Notes, 2027 Notes, 2028 Notes, 2029 Notes, 1.250% 2030 Notes, 1.875% 2030 Notes, 2.500% 2031 Notes, 2032 Notes, 2035 Notes, 2036 Notes, 2038 Notes and 2039 Notes by us or a paying agent on our behalf shall be made without withholding or deduction for or on account of any Taxes imposed by or on behalf of the United States or any political subdivision thereof or any authority therein or thereof having the power to tax, unless the withholding or deduction of such Taxes is required by law. In that event, we shall pay to a holder that is a Non-U.S. Person such additional amounts as may be necessary to ensure that the net amount received by such holder, after withholding or deduction for or on account of such Taxes, will be equal to the amount such holder would have received in the absence of such withholding or deduction. However, no additional amounts shall be payable with respect to any Note if the beneficial owner is subject to taxation solely for reasons other than its ownership of Notes, nor shall additional amounts be payable for or on account of:

- (i) any Tax that would not have been imposed, withheld or deducted but for any present or former connection (other than the mere fact of being a holder or beneficial owner of such Note) between the holder or the beneficial owner of such Note and the United States or the applicable political subdivision or authority, including, without limitation, such holder or beneficial owner being or having been a citizen or resident of the United States or the applicable political subdivision or authority or treated as being or having been a resident thereof;
- (ii) any Tax that would not have been imposed, withheld or deducted but for the holder or beneficial owner of such Note being or having been with respect to the United States a personal holding company, a controlled foreign corporation, a passive foreign investment company, a foreign private foundation or other foreign tax-exempt organization, or a corporation that accumulates earnings to avoid U.S. federal income tax;
- (iii) any Tax that is payable other than by withholding or deduction by us or a paying agent from payments in respect of such Note;
- (iv) any gift, estate, inheritance, sales, transfer, value added, personal property, excise or similar Tax;
- (v) any Tax that would not have been imposed, withheld or deducted but for a change in any law, treaty, regulation, or administrative or judicial interpretation that becomes effective after the applicable payment becomes due or is duly provided for, whichever occurs later;
- (vi) any Tax that would not have been imposed, withheld or deducted but for the presentation of such Note for payment more than 30 days after the applicable payment becomes due or is duly provided for, whichever occurs later, except to the extent

that such holder would have been entitled to such additional amounts on presenting such Note for payment on the last date of such period of 30 days;

- (vii) any Tax that would not have been imposed, withheld or deducted but for the failure of the holder or beneficial owner of such Note to comply with applicable certification, information, documentation or other reporting requirements concerning the nationality, residence, identity or connection with the United States of such holder or beneficial owner;
- (viii) any Tax that would not have been imposed, withheld or deducted but for the failure of the holder or beneficial owner (or any financial institution or other person through which the holder or beneficial owner holds any Notes) to comply with any certification, information, identification, documentation or other reporting requirements with respect to itself or any beneficial owner or account holders thereof;
- (ix) any Tax that would not have been imposed, withheld or deducted but for the failure of the holder or beneficial owner of such Note to meet the requirements (including the statement requirements) of Section 871(h) or Section 881(c) of the Code;
- (x) any Tax imposed by the Foreign Account Tax Compliance Act pursuant to Sections 1471 through 1474 of the Code, any current or future regulations or official interpretations thereof, any agreements entered into pursuant to Section 1471(b) of the Code and any intergovernmental agreements (and related legislation or official administrative guidance) implementing the foregoing; or
- (xi) any combination of items (i)-(x).

#### **Book-Entry Only Form**

Each series of Notes was issued in book-entry only form, which means that it is represented by one or more permanent global securities registered in the name of The Depository Trust Company, New York, New York (“DTC”), or its nominee. We refer to this form as “book-entry only.”

For debt securities issued in book-entry only form, DTC keeps a computerized record of its participants (for example, a broker) whose clients have purchased the securities. Each participant then keeps a record of its clients who purchased the securities. A global security may not be transferred, except that DTC, its nominees and their successors may transfer an entire global security to one another.

For book-entry only debt securities, we wire principal and interest payments to DTC’s nominee. We and the trustee treat DTC’s nominee as the owner of the global securities for all purposes. Accordingly, neither we nor the trustee have any direct responsibility or liability to pay amounts due on the debt securities issued under the Indenture to owners of beneficial interests in the global securities.

Under book-entry only form, we have not issued physical certificates representing beneficial interests in the global securities to individual holders of the debt securities. Beneficial interests in global securities will be shown on, and transfers of global securities will be made only through, records maintained by DTC and its participants and will be exchangeable for debt securities in certificated form with the same terms in authorized denominations only if:

- DTC notifies us that it is unwilling or unable to continue as depository;
- DTC ceases to be a clearing agency registered under applicable law and a successor depository is not appointed by us within 90 days; or
- We instruct the trustee that the global security is exchangeable for debt securities in certificated form.

#### **Defeasance**

The Indenture permits us to discharge or defease certain of our obligations on any series of debt securities issued under the Indenture at any time. We may defease such obligations relating to a series of debt securities by depositing with the trustee sufficient cash or government securities to pay all sums due on that series of debt securities.

#### **Liens on Assets**

The Notes and other debt securities will not be secured. However, if at any time we mortgage, pledge or subject to any lien any of our property or assets, the Indenture requires us to secure the Notes and other debt securities issued under the Indenture equally and ratably with the debt or obligations secured by such mortgage, pledge or lien for as long as such debt or obligations remain secured. Exceptions to this requirement include the following:

- purchase-money mortgages or liens;
- liens on any property or asset that existed at the time when we acquired that property or asset;
- any deposit or pledge to secure public or statutory obligations;
- any deposit or pledge with any governmental agency required to qualify us to conduct any part of our business, to entitle us to maintain self-insurance or to obtain the benefits of any law relating to workmen’s compensation, unemployment insurance, old age pensions or other social security; or

- any deposit or pledge with any court, board, commission or governmental agency as security for the proper conduct of any proceeding before it.

The Indenture does not prevent any of our affiliates from mortgaging, pledging or subjecting to any lien, any property or asset, even if the affiliate acquired that property or asset from us.

We may issue or assume an unlimited amount of debt under the Indenture.

### **Changes to the Indenture**

The Indenture may be changed with the consent of holders owning more than 50% of the principal amount of the outstanding debt securities of each series affected by the change. However, we may not change principal or interest payment terms of the Notes or the percentage required to change other terms of the Indenture without consent of the holders of the Notes and the consent of others similarly affected.

We may enter into supplemental indentures for other specified purposes, including the creation of any new series of debt securities, without the consent of any holder of debt securities issued under the Indenture.

### **Consolidation, Merger or Sale**

The Indenture provides that we may not merge with another company or sell, transfer or lease all or substantially all of our property to another company unless:

- the successor corporation expressly assumes:
- payment of principal, interest and any premium on the debt securities issued under the Indenture; and
- performance and observance of all covenants and conditions in the Indenture;
- after giving effect to the transaction, there is no default under the Indenture;
- we have delivered to the trustee an officers' certificate and opinion of counsel stating that such transaction complies with the conditions set forth in the Indenture; and
- if as a result of the transaction, our property would become subject to a lien that would not be permitted by the asset lien restriction, we secure the debt securities Issued under the Indenture equally and ratably with, or prior to, all indebtedness secured by that lien.

### **Events of Default**

An event of default means, for any series of debt securities issued under the Indenture, any of the following:

- failure to pay interest on that series of debt securities for 90 days after payment is due;
- failure to pay principal or any premium on that series of debt securities when due;
- failure to perform any other covenant relating to that series of debt securities for 90 days after notice to us;
- certain events of bankruptcy, insolvency and reorganization; and
- any other event of default provided for in the supplement to the Indenture, board resolution or officers' certificate designating the specific terms of such series of debt securities.

An event of default for a particular series of debt securities does not necessarily impact any other series of debt securities issued under the Indenture.

If an event of default for any series of debt securities occurs and continues, the trustee or the holders of at least 25% of the outstanding principal amount of the debt securities of such series may declare the entire principal of all the debt securities of that series to be due and payable immediately. If this happens, subject to certain conditions, the holders of a majority of the outstanding principal amount of the debt securities of that series can rescind the declaration if there has been deposited with the trustee a sum sufficient to pay all matured installments of interest, principal and any premium.

The holders of more than 50% of the outstanding principal amount of any series of the debt securities, may, on behalf of the holders of all of the debt securities of that series, control any proceedings resulting from an event of default or waive any past default except a default in the payment of principal, interest or any premium. We are required to file an annual certificate with the trustee stating whether we are in compliance with all of the conditions and covenants under the Indenture.

### **Concerning the Trustee**

Within 90 days after a default occurs with respect to a particular series of Notes, the trustee must notify the holders of such series of Notes of all defaults known to the trustee if we have not remedied them (default is defined to mean any event which is, or after notice or lapse of time or both would become, an event of default with respect to such series of Notes as specified above under “-Events of Default”). If a default described in the third bullet point under “-Events of Default” occurs, the trustee will not give notice to the holders of the series until at

least 60 days after the occurrence of that default. The trustee may withhold notice to the holders of the Notes of any default (except in the payment of principal, interest or any premium) if it in good faith believes that withholding this notice is in the interest of the holders.

Prior to an event of default, the trustee is required to perform only the specific duties stated in the Indenture, and after an event of default, must exercise the same degree of care as a prudent individual would exercise in the conduct of his or her own affairs. The trustee is not required to take any action permitted by the Indenture at the request of holders of the debt securities, unless those holders protect the trustee against costs, expenses and liabilities. The trustee is not required to spend its own funds or become financially liable when performing its duties if it reasonably believes that it will not be adequately protected financially.

U.S. Bank National Association, the trustee for the Notes, and its affiliates have commercial banking relationships with us and some of our affiliates and serves as trustee or paying agent under indentures relating to debt securities issued by us and some of our affiliates.

## Selected Financial Data Verizon Communications Inc. and Subsidiaries

	(dollars in millions, except per share amounts)									
	2019		2018		2017		2016		2015	
Results of Operations										
Operating revenues	\$	131,868	\$	130,863	\$	126,034	\$	125,980	\$	131,620
Operating income		30,378		22,278		27,425		29,249		30,615
Net income attributable to Verizon		19,265		15,528		30,101		13,127		17,879
Per common share – basic		4.66		3.76		7.37		3.22		4.38
Per common share – diluted		4.65		3.76		7.36		3.21		4.37
Cash dividends declared per common share		2.435		2.385		2.335		2.285		2.230
Net income attributable to noncontrolling interests		523		511		449		481		496

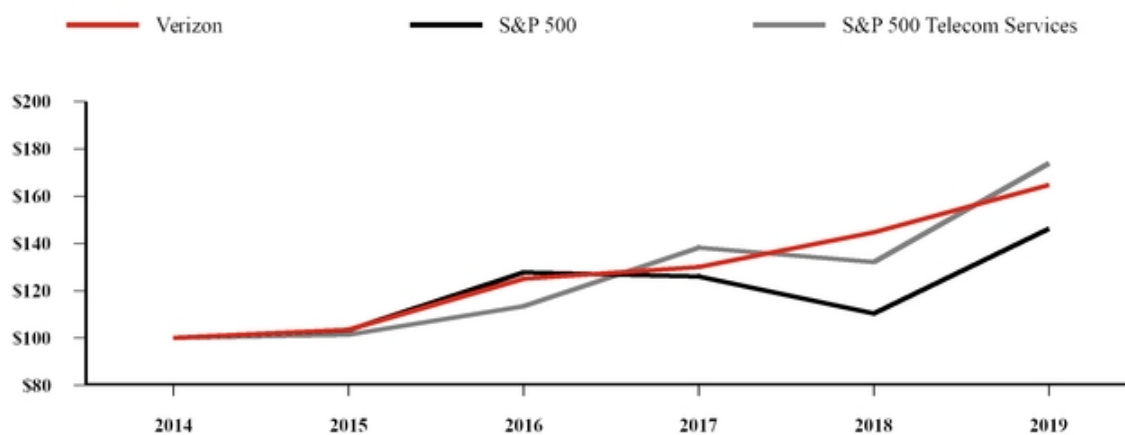
### Financial Position

Total assets	\$	291,727	\$	264,829	\$	257,143	\$	244,180	\$	244,175
Debt maturing within one year		10,777		7,190		3,453		2,645		6,489
Long-term debt		100,712		105,873		113,642		105,433		103,240
Employee benefit obligations		17,952		18,599		22,112		26,166		29,957
Noncontrolling interests		1,440		1,565		1,591		1,508		1,414
Equity attributable to Verizon		61,395		53,145		43,096		22,524		16,428

- Significant events affecting our historical earnings trends in 2018 through 2019 are described in "Special Items" in the "Management's Discussion and Analysis of Financial Condition and Results of Operations" section.
- 2017 data includes severance, pension and benefit charges, gain on spectrum license transactions, acquisition and integration related charges, product realignment charges, net gain on sale of divested businesses and early debt redemption costs. 2016 data includes severance, pension and benefit charges, gain on spectrum license transactions, net gain on sale of divested businesses and early debt redemption costs. 2015 data includes severance, pension and benefit credits and gain on spectrum license transactions.
- On January 1, 2019, we adopted several Accounting Standards Updates (ASUs) that were issued by the Financial Accounting Standards Board (FASB) using the modified retrospective basis. On January 1, 2018, we adopted several ASUs that were issued by the FASB. These standards were adopted on different bases, including: (1) prospective; (2) full retrospective; and (3) modified retrospective. Based on the method of adoption, certain figures are not comparable, with full retrospective reflected in all periods. See Note 1 to the consolidated financial statements for additional information.

## Stock Performance Graph

Comparison of Five-Year Total Return Among Verizon, S&P 500 and S&P 500 Telecommunications Services Index



		2014	2015	2016	2017	2018	2019
Verizon	\$	100.0	\$ 103.6	\$ 125.1	\$ 130.1	\$ 144.7	\$ 164.8
S&P 500		100.0	103.4	127.7	126.1	110.3	146.3
S&P 500 Telecom Services		100.0	101.4	113.5	138.3	132.2	173.8

The graph compares the cumulative total returns of Verizon, the S&P 500 Stock Index and the S&P 500 Telecommunications Services Index over a five-year period. It assumes \$100 was invested on December 31, 2014 with dividends being reinvested.

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

### Overview

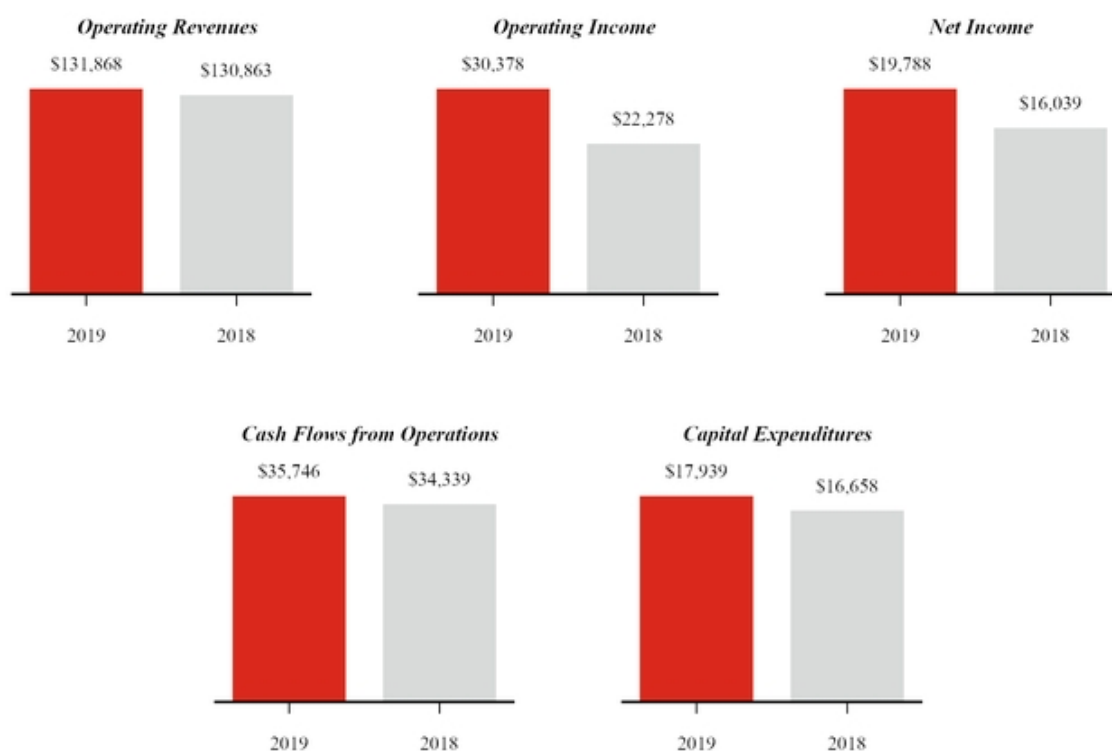
Verizon Communications Inc. (Verizon or the Company) is a holding company that, acting through its subsidiaries, is one of the world's leading providers of communications, information and entertainment products and services to consumers, businesses and government entities. With a presence around the world, we offer voice, data and video services and solutions on our networks that are designed to meet customers' demand for mobility, reliable network connectivity, security and control. We have a highly diverse workforce of approximately 135,000 employees as of December 31, 2019.

To compete effectively in today's dynamic marketplace, we are focused on the capabilities of our high-performing networks to drive growth based on delivering what customers want and need in the new digital world. During 2019, we focused on leveraging our network leadership; retaining and growing our high-quality customer base while balancing profitability; enhancing ecosystems in growth businesses; and driving monetization of our networks and solutions. We are creating business value by earning customers', employees' and shareholders' trust, limiting our environmental impact and continuing our customer growth while creating social benefit through our products and services. Our strategy requires significant capital investments primarily to acquire wireless spectrum, put the spectrum into service, provide additional capacity for growth in our networks, invest in the fiber that supports our businesses, evolve and maintain our networks and develop and maintain significant advanced information technology systems and data system capabilities. We believe that steady and consistent investments in our networks and platforms will drive innovative products and services and fuel our growth.

We are consistently deploying new network architecture and technologies to extend our leadership in both fourth-generation (4G) and fifth-generation (5G) wireless networks. We expect that our next-generation multi-use platform, which we call the Intelligent Edge Network, will simplify operations by eliminating legacy network elements, improve 4G Long-Term Evolution (LTE) wireless coverage, speed the deployment of 5G wireless technology and create new opportunities in the business market. Our network leadership is the hallmark of our brand and the foundation for the connectivity, platform and solutions upon which we build our competitive advantage.

### Highlights of Our 2019 Financial Results

(dollars in millions)

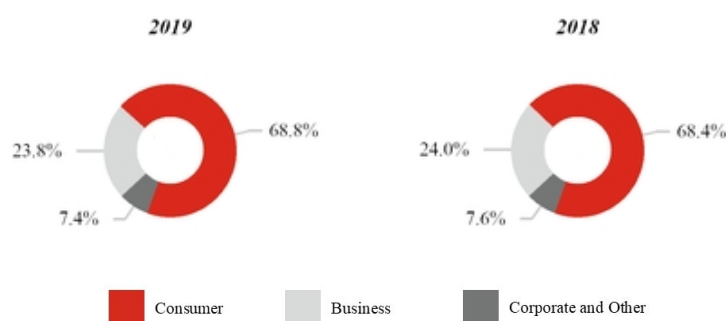




## Business Overview

In November 2018, we announced a strategic reorganization of our business. Under the new structure, effective April 1, 2019, there are two reportable segments that we operate and manage as strategic business units - Verizon Consumer Group (Consumer) and Verizon Business Group (Business).

### Revenue by Segment



Note: Excludes eliminations.

### Verizon Consumer Group

Our Consumer segment provides consumer-focused wireless and wireline communications services and products. Our wireless services are provided across one of the most extensive wireless networks in the United States (U.S.) under the Verizon brand and through wholesale and other arrangements. Our wireline services are provided in nine states in the Mid-Atlantic and Northeastern U.S., as well as Washington D.C., over our 100% fiber-optic network under the Fios brand and over a traditional copper-based network to customers who are not served by Fios. Our Consumer segment's wireless and wireline products and services are available to our retail customers, as well as resellers that purchase wireless network access from us on a wholesale basis.

Customers can obtain our wireless services on a postpaid or prepaid basis. A retail postpaid connection represents an individual line of service for a wireless device for which a customer is generally billed one month in advance for a monthly access charge in return for access to and usage of network services. Our prepaid service is offered only to Consumer customers and enables individuals to obtain wireless services without credit verification by paying for all services in advance. The Consumer segment also offers several categories of wireless equipment to customers, including a variety of smartphones and other handsets, wireless-enabled Internet devices, such as tablets, laptop computers and netbooks, and other wireless-enabled connected devices, such as smart watches and other wearables.

In addition to the wireless services and equipment discussed above, Consumer sells residential fixed connectivity solutions, including Internet, video and voice services, and wireless network access to resellers on a wholesale basis. The Consumer segment's operating revenues for the year ended December 31, 2019 totaled \$91.1 billion, an increase of \$1.3 billion, or 1.4%, compared to the year ended December 31, 2018. As of December 31, 2019, Consumer had approximately 95 million wireless retail connections, 6 million broadband connections and 4 million Fios video connections.

### Verizon Business Group

Our Business segment provides wireless and wireline communications services and products, video and data services, corporate networking solutions, security and managed network services, local and long distance voice services and network access to deliver various Internet of Things (IoT) services and products, including solutions that support fleet tracking management, compliance management, field service management, asset tracking and other types of mobile resource management. We provide these products and services to businesses, government customers and wireless and wireline carriers across the U.S. and select products and services to customers around the world. The Business segment's operating revenues for the year ended December 31, 2019 totaled \$31.4 billion, a decrease of \$91 million, or 0.3%, compared to the year ended December 31, 2018. As of December 31, 2019, Business had approximately 25 million wireless retail postpaid connections and 489 thousand broadband connections.

### Corporate and Other

Corporate and other includes the results of our media business, Verizon Media, and other businesses, investments in unconsolidated businesses, insurance captives, unallocated corporate expenses, certain pension and other employee benefit related costs and interest and financing expenses. Corporate and other also includes the historical results of divested businesses and other adjustments and gains and losses that are not allocated in assessing segment performance due to their nature. Although such transactions are excluded from the business segment results, they are included in reported consolidated earnings. Gains and losses from transactions that are not individually significant are included in segment results as these items are included in the chief operating decision maker's assessment of segment performance.

Verizon Media includes diverse media and technology brands that serve both consumers and businesses. Verizon Media provides consumers with owned and operated and third-party search properties as well as mail, news, finance, sports and entertainment offerings, and provides other businesses and partners access to consumers through digital advertising, content delivery and video streaming platforms. Verizon Media's total operating revenues were \$7.5 billion for the year ended December 31, 2019. This was a decrease of 3.0% from the year ended December 31, 2018.

## Capital Expenditures and Investments

We continue to invest in our wireless networks, high-speed fiber and other advanced technologies to position ourselves at the center of growth trends for the future. During the year ended December 31, 2019, these investments included \$17.9 billion for capital expenditures. See "Cash Flows Used in Investing Activities" and "Operating Environment and Trends" for additional information. We believe that our investments aimed at expanding our portfolio of products and services will provide our customers with an efficient, reliable infrastructure for competing in the information economy.

## Global Network and Technology

We are focusing our capital spending on adding capacity and density to our 4G LTE network, while also building our next generation 5G network. We are densifying our network by utilizing small cell technology, in-building solutions and distributed antenna systems. Network densification enables us to add capacity to address increasing mobile video consumption and the growing demand for IoT products and services on our 4G LTE and 5G networks. Over the past several years, we have been leading the development of 5G wireless technology industry standards and the ecosystems for fixed and mobile 5G wireless services. We believe 5G technology will be able to provide users with eight capabilities, or currencies. The eight currencies are peak data rates, mobile data volumes, mobility, number of connected devices, energy efficiency of connected devices, service deployment, reduced latency and improved reliability. We expect that 5G technology will provide higher throughput and lower latency than the current 4G LTE technology and enable our networks to handle more traffic as the number of Internet-connected devices grows. During 2018, we commercially launched 5G Home on proprietary standards in four U.S. markets and on global standards in a fifth U.S. market in 2019. We also launched our 5G Ultra Wideband Network in 31 U.S. markets in 2019, as well as several 5G-compatible smartphones.

To compensate for the shrinking market for traditional copper-based products, we continue to build our wireline business around fiber-based networks supporting data, video and advanced business services - areas where demand for reliable high-speed connections is growing. We are evolving the architecture of our networks to a next-generation multi-use platform, providing improved efficiency and virtualization, increased automation and opportunities for edge computing services that will support both our fiber-based and radio access network technologies. We call this the Intelligent Edge Network. We expect that this new architecture will simplify operations by eliminating legacy network elements, improve our 4G LTE wireless coverage, speed the deployment of 5G wireless technology and create new opportunities in the business market.

## Recent Developments

In 2019, the Federal Communications Commission (FCC) completed two millimeter wave spectrum license auctions. Verizon participated in these auctions and was the high bidder on 9 and 1,066 licenses, respectively, in the 24 Gigahertz (GHz) and 28 GHz bands. We submitted an application to the FCC and paid cash of approximately \$521 million for the licenses. We received the licenses during the fourth quarter of 2019.

In December 2019, the FCC incentive auction for spectrum licenses in the upper 37 GHz, 39 GHz, and 47 GHz bands commenced. As an incumbent licensee, Verizon received vouchers related to our existing 39 GHz licenses. These vouchers can be converted into cash, the amount of which will not be known until the conclusion of the auction, or applied toward the purchase price of spectrum in the auction. At the conclusion of the auction, all existing licenses will be cancelled and new reconfigured licenses or cash will be distributed depending on the results of the auction. Due to the FCC's rules restricting communications regarding the auction, we will not disclose our financial plans for the auction during the quiet period for this auction unless legally required. In addition, as of this time, until the completion of the auction process, we cannot determine the resulting financial outcome, including a potential gain or loss. Such gain or loss, if any, may be material.

## Consolidated Results of Operations

In this section, we discuss our overall results of operations and highlight special items that are not included in our segment results. In "Segment Results of Operations," we review the performance of our two reportable segments in more detail. A detailed discussion of 2017 items and year-over-year comparisons between 2018 and 2017 that are not included in this Form 10-K can be found in the "Management's Discussion and Analysis of Financial Condition and Results of Operations" for the year ended December 31, 2018 filed with our most recent financial statements and included in the Company's Current Report on Form 8-K dated August 8, 2019.

## Consolidated Revenues

Years Ended December 31,	(dollars in millions)				
			Increase/(Decrease)		
	2019	2018	2019 vs. 2018		
Consumer	\$ 91,056	\$ 89,762	\$ 1,294		1.4 %
Business	31,443	31,534	(91)		(0.3)
Corporate and other	9,812	9,936	(124)		(1.2)
Eliminations	(443)	(369)	(74)		20.1
<b>Consolidated Revenues</b>	<b>\$ 131,868</b>	<b>\$ 130,863</b>	<b>\$ 1,005</b>		<b>0.8</b>

Consolidated revenues increased \$1.0 billion, or 0.8%, during 2019 compared to 2018, primarily due to an increase in revenues at our Consumer segment, partially offset by decreases in revenues at our Business segment and Corporate and other.

Revenues for our segments are discussed separately below under the heading "Segment Results of Operations."

Corporate and other revenues decreased \$124 million, or 1.2%, during 2019 compared to 2018, primarily due to a decrease of \$232 million in revenues within Verizon Media.

## Consolidated Operating Expenses

Years Ended December 31,			(dollars in millions)	
			Increase/(Decrease)	
	2019	2018	2019 vs. 2018	
Cost of services	\$ 31,772	\$ 32,185	\$ (413)	(1.3)%
Cost of wireless equipment	22,954	23,323	(369)	(1.6)
Selling, general and administrative expense	29,896	31,083	(1,187)	(3.8)
Depreciation and amortization expense	16,682	17,403	(721)	(4.1)
Media goodwill impairment	186	4,591	(4,405)	(95.9)
<b>Consolidated Operating Expenses</b>	<b>\$ 101,490</b>	<b>\$ 108,585</b>	<b>\$ (7,095)</b>	<b>(6.5)</b>

Operating expenses for our segments are discussed separately below under the heading "Segment Results of Operations."

### Cost of Services

Cost of services includes the following costs directly attributable to a service: salaries and wages, benefits, materials and supplies, content costs, contracted services, network access and transport costs, customer provisioning costs, computer systems support, and costs to support our outsourcing contracts and technical facilities. Aggregate customer care costs, which include billing and service provisioning, are allocated between Cost of services and Selling, general and administrative expense.

Cost of services decreased \$413 million, or 1.3%, during 2019 compared to 2018, primarily due to decreases in network access costs, a product realignment charge in 2018 (see "Special Items"), decreases in employee-related costs resulting from the Voluntary Separation Program and decreases in digital content costs. These decreases were partially offset by increases in rent expense as a result of adding capacity to the networks to support demand and the adoption of the new lease accounting standard in 2019, regulatory fees, and costs related to the device protection package offered to our wireless retail postpaid customers.

### Cost of Wireless Equipment

Cost of wireless equipment decreased \$369 million, or 1.6%, during 2019 compared to 2018, primarily as a result of declines in the number of wireless devices sold as a result of an elongation of the handset upgrade cycle, partially offset by a shift to higher priced devices in the mix of wireless devices sold.

### Selling, General and Administrative Expense

Selling, general and administrative expense includes salaries and wages and benefits not directly attributable to a service or product, bad debt charges, taxes other than income taxes, advertising and sales commission costs, call center and information technology costs, regulatory fees, professional service fees, and rent and utilities for administrative space. Also included is a portion of the aggregate customer care costs as discussed above in "Cost of Services."

Selling, general and administrative expense decreased \$1.2 billion, or 3.8%, during 2019 compared to 2018, primarily due to decreases in employee-related costs primarily due to the Voluntary Separation Program, a decrease in severance, pension and benefits charges (see "Special Items"), the acquisition and integration related charges in 2018 primarily related to the acquisition of Yahoo's operating business (see "Special Items") and a net gain from dispositions of assets and businesses in 2019 (see "Special Items"), partially offset by increases in advertising expenses, sales commission and bad debt expense. The increase in sales commission expense during 2019 compared to 2018, was primarily due to a lower net deferral of commission costs as a result of the adoption of Topic 606 on January 1, 2018, using a modified retrospective approach.

### Depreciation and Amortization Expense

Depreciation and amortization expense decreased \$721 million, or 4.1%, during 2019 compared to 2018, primarily due to the change in the mix of net depreciable assets.

### Media Goodwill Impairment

The goodwill impairment charges recorded in 2019 and 2018 for Verizon Media were a result of the Company's annual impairment test performed in the fourth quarter (see "Critical Accounting Estimates").

## Other Consolidated Results

### Other Income (Expense), Net

Additional information relating to Other income (expense), net is as follows:

Years Ended December 31,	(dollars in millions)			
			Increase/(Decrease)	
	2019	2018	2019 vs. 2018	
Interest income	\$ 121	\$ 94	\$ 27	28.7 %
Other components of net periodic benefit cost	627	3,068	(2,441)	(79.6)
Early debt extinguishment costs	(3,604)	(725)	(2,879)	nm
Other, net	(44)	(73)	29	39.7
<b>Total</b>	<b>\$ (2,900)</b>	<b>\$ 2,364</b>	<b>\$ (5,264)</b>	<b>nm</b>

nm - not meaningful

The change in Other income (expense), net during the year ended December 31, 2019, compared to the similar period in 2018, was primarily driven by early debt redemption costs of \$3.6 billion recorded during 2019, compared to \$725 million recorded during 2018 (see "Special Items") as well as pension and benefit charges of \$126 million recorded in 2019, compared with pension and benefit credits of \$2.1 billion recorded in 2018 (see "Special Items").

### Interest Expense

Years Ended December 31,	(dollars in millions)			
			Increase/(Decrease)	
	2019	2018	2019 vs. 2018	
Total interest costs on debt balances	\$ 5,386	\$ 5,573	\$ (187)	(3.4)%
Less capitalized interest costs	656	740	(84)	(11.4)
<b>Total</b>	<b>\$ 4,730</b>	<b>\$ 4,833</b>	<b>\$ (103)</b>	<b>(2.1)</b>

Average debt outstanding	\$ 112,901	\$ 115,858
Effective interest rate	4.8%	4.8%

Total interest costs on debt balances decreased during 2019 primarily due to lower average debt balances.

### Provision for Income Taxes

Years Ended December 31,	(dollars in millions)			
			Increase/(Decrease)	
	2019	2018	2019 vs. 2018	
<b>Provision for income taxes</b>	<b>\$ 2,945</b>	<b>\$ 3,584</b>	<b>\$ (639)</b>	<b>(17.8)%</b>
<b>Effective income tax rate</b>	<b>13.0%</b>	<b>18.3%</b>		

The effective income tax rate is calculated by dividing the provision for income taxes by income before income taxes. The effective income tax rate for 2019 was 13.0% compared to 18.3% for 2018. The decrease in the effective income tax rate and the provision for income taxes was primarily due to the recognition of approximately \$2.2 billion of a non-recurring tax benefit in connection with the disposition of preferred stock, representing a minority interest in a foreign affiliate in 2019 compared to the non-recurring deferred tax benefit of approximately \$2.1 billion as a result of an internal reorganization of legal entities within the historical Wireless business, which was offset by a goodwill charge that is not deductible for tax purposes in 2018.

A reconciliation of the statutory federal income tax rate to the effective income tax rate for each period is included in Note 12 to the consolidated financial statements.

## Consolidated Net Income, Consolidated EBITDA and Consolidated Adjusted EBITDA

Consolidated earnings before interest, taxes, depreciation and amortization expenses (Consolidated EBITDA) and Consolidated Adjusted EBITDA, which are presented below, are non-generally accepted accounting principles (GAAP) measures that we believe are useful to management, investors and other users of our financial information in evaluating operating profitability on a more variable cost basis as they exclude the depreciation and amortization expense related primarily to capital expenditures and acquisitions that occurred in prior years, as well as in evaluating operating performance in relation to Verizon's competitors. Consolidated EBITDA is calculated by adding back interest, taxes, and depreciation and amortization expenses to net income.

Consolidated Adjusted EBITDA is calculated by excluding from Consolidated EBITDA the effect of the following non-operational items: equity in losses of unconsolidated businesses and other income and expense, net, as well as the effect of special items. We believe that this measure is useful to management, investors and other users of our financial information in evaluating the effectiveness of our operations and underlying business trends in a manner that is consistent with management's evaluation of business performance. We believe that Consolidated Adjusted EBITDA is widely used by investors to compare a company's operating performance to its competitors by minimizing impacts caused by differences in capital structure, taxes and depreciation policies. Further, the exclusion of non-operational items and special items enables comparability to prior period performance and trend analysis. See "Special Items" for additional information.

It is management's intent to provide non-GAAP financial information to enhance the understanding of Verizon's GAAP financial information, and it should be considered by the reader in addition to, but not instead of, the financial statements prepared in accordance with GAAP. Each non-GAAP financial measure is presented along with the corresponding GAAP measure so as not to imply that more emphasis should be placed on the non-GAAP measure. We believe that non-GAAP measures provide relevant and useful information, which is used by management, investors and other users of our financial information, as well as by our management in assessing both consolidated and segment performance. The non-GAAP financial information presented may be determined or calculated differently by other companies and may not be directly comparable to that of other companies.

		(dollars in millions)	
Years Ended December 31,		2019	2018
<b>Consolidated Net Income</b>	<b>\$</b>	<b>19,788</b>	<b>\$ 16,039</b>
Add:			
Provision for income taxes		2,945	3,584
Interest expense		4,730	4,833
Depreciation and amortization expense		16,682	17,403
<b>Consolidated EBITDA</b>		<b>44,145</b>	<b>41,859</b>
Add (Less):			
Other (income) expense, net†		2,900	(2,364)
Equity in losses of unconsolidated businesses‡		15	186
Severance charges		204	2,157
Acquisition and integration related charges§		—	531
Product realignment charges§		—	450
Impairment charges		186	4,591
Net gain from dispositions of assets and businesses		(261)	—
<b>Consolidated Adjusted EBITDA</b>	<b>\$</b>	<b>47,189</b>	<b>\$ 47,410</b>

† Includes Pension and benefits mark-to-market adjustments and early debt redemption costs, where applicable.

‡ Includes Product realignment charges and impairment charges, where applicable.

§ Excludes depreciation and amortization expense.

The changes in Consolidated Net Income, Consolidated EBITDA and Consolidated Adjusted EBITDA in the table above were primarily a result of the factors described in connection with operating revenues and operating expenses.

### Segment Results of Operations

We have two reportable segments that we operate and manage as strategic business units, Consumer and Business. We measure and evaluate our reportable segments based on segment operating income. The use of segment operating income is consistent with the chief operating decision maker's assessment of segment performance.

To aid in the understanding of segment performance as it relates to segment operating income, we use the following operating statistics to evaluate the overall effectiveness of our segments:

*Wireless retail connections* are retail customer device postpaid and prepaid connections. Retail connections under an account may include those from smartphones and basic phones (collectively, phones) as well as tablets and other Internet devices, including wearables and retail IoT devices.

*Wireless retail postpaid connections* are retail postpaid customer device connections. Retail connections under an account may include those from phones, as well as tablets and other Internet devices, including wearables and retail IoT devices.

*Fios Internet connections* are the total number of connections to the Internet using Fios Internet services.

*Fios video connections* are the total number of connections to traditional linear video programming using Fios video services.

*Broadband connections* are the total number of connections to the Internet using Digital Subscriber Line (DSL) and Fios Internet services.

*Voice connections* are the total number of traditional switched access lines in service and Fios digital voice connections.

*Wireless retail connections, net additions* are the total number of additional retail customer device postpaid and prepaid connections, less the number of device disconnects within the current period.

*Wireless retail postpaid connections, net additions* are the total number of additional retail customer device postpaid connections, less the number of device disconnects within the current period.

*Churn* is the rate at which service to either retail or postpaid retail connections is terminated on a monthly basis.

*Wireless retail postpaid ARPA* is the calculated average service revenue per account (ARPA) from retail postpaid accounts, which does not include recurring device payment plan billings related to the Verizon device payment program, plan billings related to total mobile protection packages or regulatory fees.

*Wireless retail postpaid accounts* are retail customers that are directly served and managed under the Verizon brand and use its services. Accounts include unlimited plans, shared data plans and corporate accounts, as well as legacy single connection plans and family plans. A single account may include monthly wireless services for a variety of connected devices.

*Wireless retail postpaid connections per account* is calculated by dividing the total number of retail postpaid connections by the number of retail postpaid accounts as of the end of the period.

Segment earnings before interest, taxes, depreciation and amortization (Segment EBITDA), which is presented below, is a non-GAAP measure and does not purport to be an alternative to operating income as a measure of operating performance. We believe this measure is useful to management, investors and other users of our financial information in evaluating operating profitability on a more variable cost basis as it excludes the depreciation and amortization expenses related primarily to capital expenditures and acquisitions that occurred in prior years, as well as in evaluating operating performance in relation to our competitors. Segment EBITDA is calculated by adding back depreciation and amortization expense to segment operating income. Segment EBITDA margin is calculated by dividing Segment EBITDA by total segment operating revenues. You can find additional information about our segments in Note 13 to the consolidated financial statements.

## Verizon Consumer Group

Our Consumer segment provides consumer-focused wireless and wireline communications services and products. Our wireless services are provided across one of the most extensive wireless networks in the United States under the Verizon brand and through wholesale and other arrangements. Our wireline services are provided in nine states in the Mid-Atlantic and Northeastern U.S., as well as Washington D.C., over our 100% fiber-optic network under the Fios brand and over a traditional copper-based network to customers who are not served by Fios.

### Operating Revenues and Selected Operating Statistics

Years Ended December 31,	(dollars in millions, except ARPA)				
			Increase/(Decrease)		
	2019	2018	2019 vs. 2018		
Service	\$ 65,383	\$ 64,223	\$ 1,160	1.8 %	
Wireless equipment	18,048	18,875	(827)	(4.4)	
Other	7,625	6,664	961	14.4	
<b>Total Operating Revenues</b>	<b>\$ 91,056</b>	<b>\$ 89,762</b>	<b>\$ 1,294</b>	<b>1.4</b>	
<b>Connections ('000):<sup>(1)</sup></b>					
Wireless retail connections	94,544	94,507	37	—	
Wireless retail postpaid connections	90,481	89,861	620	0.7	
Fios Internet connections	5,902	5,760	142	2.5	
Fios video connections	4,152	4,377	(225)	(5.1)	
Broadband connections	6,467	6,460	7	0.1	
Voice connections	5,754	6,332	(578)	(9.1)	
<b>Net Additions in Period ('000):<sup>(2)</sup></b>					
Wireless retail	379	372	7	1.9	
Wireless retail postpaid	970	1,129	(159)	(14.1)	
Wireless retail postpaid phones	737	498	239	48.0	
<b>Churn Rate:</b>					
Wireless retail	1.28%	1.25%			
Wireless retail postpaid	1.05%	1.00%			
Wireless retail postpaid phones	0.79%	0.76%			
<b>Account Statistics:</b>					
Wireless retail postpaid ARPA	\$ 118.13	\$ 115.48	\$ 2.65	2.3	
Wireless retail postpaid accounts ('000) <sup>(1)</sup>	33,875	34,086	(211)	(0.6)	
Wireless retail postpaid connections per account <sup>(1)</sup>	2.67	2.64	0.03	1.1	

<sup>(1)</sup> As of end of period

<sup>(2)</sup> Excluding acquisitions and adjustments

Consumer's total operating revenues increased \$1.3 billion, or 1.4%, during 2019 compared to 2018, primarily as a result of increases in Service and Other revenues, partially offset by a decrease in Wireless equipment revenue.

### Service Revenue

Service revenue increased \$1.2 billion, or 1.8%, during 2019 compared to 2018, primarily due to increases in wireless service and Fios revenues, partially offset by decreases in wireline voice and DSL services.

Wireless service revenue increased \$1.3 billion, or 2.5%, during 2019 compared to 2018, due to increases in wireless access revenue, driven by customers shifting to higher access plans including unlimited plans and increases in the number of devices per account, the declining fixed-term subsidized plan base and growth from reseller accounts. Wireless retail postpaid ARPA increased 2.3%.

For the year ended December 31, 2019, Fios revenues totaled \$10.4 billion and increased \$92 million, or 0.9%, compared to 2018. This increase was due to a 2.5% increase in Fios Internet connections, reflecting increased demand in higher broadband speeds, partially offset by a 5.1% decrease in Fios video connections, reflecting the ongoing shift from traditional linear video to over-the-top (OTT) offerings.

Service revenue attributable to wireline voice and DSL broadband services declined during 2019, compared to 2018. The declines are primarily due to a decrease of 9.1% in voice connections resulting primarily from competition and technology substitution with wireless and competing Voice over Internet Protocol (VoIP) and cable telephony services.

### Wireless Equipment Revenue

Wireless equipment revenue decreased \$827 million, or 4.4%, during 2019 compared to 2018, as a result of declines in wireless device sales primarily due to an elongation of the handset upgrade cycle and increased promotions. These decreases were partially offset by a shift to higher priced units in the mix of wireless devices sold.

### Other Revenue

Other revenue includes non-service revenues such as regulatory fees, cost recovery surcharges, revenues associated with our device protection package, leasing and interest on equipment financed under a device payment plan agreement when sold to the customer by an authorized agent.

Other revenue increased \$1.0 billion, or 14.4%, during 2019 compared to 2018, primarily due to pricing increases related to our wireless device protection plans, as well as regulatory fees.

### Operating Expenses

Years Ended December 31,	(dollars in millions)				
			Increase/(Decrease)		
	2019	2018	2019 vs. 2018		
Cost of services	\$ 15,884	\$ 15,335	\$ 549		3.6 %
Cost of wireless equipment	18,219	18,763	(544)		(2.9)
Selling, general and administrative expense	16,639	15,701	938		6.0
Depreciation and amortization expense	11,353	11,952	(599)		(5.0)
<b>Total Operating Expenses</b>	<b>\$ 62,095</b>	<b>\$ 61,751</b>	<b>\$ 344</b>		<b>0.6</b>

### Cost of Services

Cost of services increased \$549 million, or 3.6%, during 2019 compared to 2018, primarily due to increases in rent expense as a result of adding capacity to the networks to support demand as well as an increase due to the adoption of the new lease accounting standard in 2019, increases in costs related to the device protection package offered to our wireless retail postpaid customers, as well as regulatory fees. These increases were partially offset by decreases in employee-related costs primarily due to the Voluntary Separation Program, as well as decreases in access costs and roaming.

### Cost of Wireless Equipment

Cost of wireless equipment decreased \$544 million, or 2.9%, during 2019 compared to 2018, primarily as a result of declines in the number of wireless devices sold as a result of an elongation of the handset upgrade cycle. These decrease were partially offset by a shift to higher priced devices in the mix of wireless devices sold.

### Selling, General and Administrative Expense

Selling, general and administrative expense increased \$938 million, or 6.0%, during 2019 compared to 2018, primarily due to increases in sales commission and bad debt expense, and an increase in advertising costs. The increase in sales commission expense during 2019 compared to 2018 was primarily due to a lower net deferral of commission costs as a result of the adoption of Topic 606 on January 1, 2018 using a modified retrospective approach. These increases were partially offset by decreases in employee-related costs primarily due to the Voluntary Separation Program.

### Depreciation and Amortization Expense

Depreciation and amortization expense decreased \$599 million, or 5.0%, during 2019 compared to 2018, driven by the change in the mix of total Verizon depreciable assets and Consumer's usage of those assets.

### Segment Operating Income and EBITDA

Years Ended December 31,	(dollars in millions)				
			Increase/(Decrease)		
	2019	2018	2019 vs. 2018		
<b>Segment Operating Income</b>	<b>\$ 28,961</b>	<b>\$ 28,011</b>	<b>\$ 950</b>		<b>3.4 %</b>
Add Depreciation and amortization expense	11,353	11,952	(599)		(5.0)
<b>Segment EBITDA</b>	<b>\$ 40,314</b>	<b>\$ 39,963</b>	<b>\$ 351</b>		<b>0.9</b>

<b>Segment operating income margin</b>	<b>31.8%</b>	31.2%
<b>Segment EBITDA margin</b>	<b>44.3%</b>	44.5%



The changes in the table above during the periods presented were primarily a result of the factors described in connection with operating revenues and operating expenses.

## Verizon Business Group

Our Business segment provides wireless and wireline communications services and products, video and data services, corporate networking solutions, security and managed network services, local and long distance voice services and network access to deliver various IoT services and products. We provide these products and services to businesses, government customers and wireless and wireline carriers across the U.S. and select products and services to customers around the world. The Business segment is organized in four customer groups: Global Enterprise, Small and Medium Business, Public Sector and Other, and Wholesale.

### Operating Revenues and Selected Operating Statistics

Years Ended December 31,	(dollars in millions)			
			Increase/(Decrease)	
	2019	2018	2019 vs. 2018	
Global Enterprise	\$ 10,818	\$ 11,201	\$ (383)	(3.4)%
Small and Medium Business	11,464	10,752	712	6.6
Public Sector and Other	5,922	5,833	89	1.5
Wholesale	3,239	3,748	(509)	(13.6)
<b>Total Operating Revenues<sup>(1)</sup></b>	<b>\$ 31,443</b>	<b>\$ 31,534</b>	<b>\$ (91)</b>	<b>(0.3)</b>

<b>Connections ('000):<sup>(2)</sup></b>				
Wireless retail postpaid connections	25,217	23,492	1,725	7.3
Fios Internet connections	326	307	19	6.2
Fios video connections	77	74	3	4.1
Broadband connections	489	501	(12)	(2.4)
Voice connections	4,959	5,400	(441)	(8.2)

<b>Net Additions in Period ('000): <sup>(3)</sup></b>				
Wireless retail postpaid	1,391	1,397	(6)	(0.4)
Wireless retail postpaid phones	698	625	73	11.7

<b>Churn Rate:</b>		
Wireless retail postpaid	1.24%	1.19%
Wireless retail postpaid phones	0.99%	0.98%

<sup>(1)</sup> Service and other revenues included in our Business segment amounted to approximately \$27.9 billion and \$28.1 billion for the years ended December 31, 2019 and 2018, respectively. Wireless equipment revenues included in our Business segment amounted to approximately \$3.5 billion and \$3.4 billion for the years ended December 31, 2019 and 2018, respectively.

<sup>(2)</sup> As of end of period

<sup>(3)</sup> Includes certain adjustments

Business revenues decreased \$91 million, or 0.3%, during 2019 compared to 2018, primarily due to decreases in Global Enterprise and Wholesale revenues, partially offset by increases in Small and Medium Business and Public Sector and Other revenues.

### Global Enterprise

Global Enterprise offers services to large businesses, which are identified based on their size and volume of business with Verizon, as well as non-U.S. public sector customers.

Global Enterprise revenues decreased \$383 million, or 3.4%, during 2019 compared to 2018, primarily due to declines in traditional data and voice communication services as a result of competitive price pressures. These revenue decreases were partially offset by increases in wireless service revenue.

### Small and Medium Business

Small and Medium Business offers wireless services and equipment, tailored voice and networking products, Fios services, IP networking, advanced voice solutions, security and managed information technology services to our U.S.-based customers that do not meet the requirements to be categorized as Global Enterprise.

Small and Medium Business revenues increased \$712 million, or 6.6%, during 2019 compared to 2018, primarily due to an increase in wireless postpaid service revenue of 11.7% as a result of increases in the amount of wireless retail postpaid connections. These increases were further driven by increased wireless equipment revenue resulting from a shift to higher priced units in the mix of wireless devices sold and increases in

the number of wireless devices sold, increased revenue related to our wireless device protection package, as well as increased revenue related to Fios services. These revenue increases were partially offset by revenue declines related to the loss of voice and DSL service connections.

Small and Medium Business Fios revenues totaled \$915 million and increased \$110 million, or 13.7%, during 2019 compared to 2018, reflecting the increase in total connections, as well as increased demand for higher broadband speeds.

#### ***Public Sector and Other***

Public Sector and Other offers wireless products and services as well as wireline connectivity and managed solutions to U.S. federal, state and local governments and educational institutions. These services include the business services and connectivity similar to the products and services offered by Global Enterprise, in each case, with features and pricing designed to address the needs of governments and educational institutions.

Public Sector and Other revenues increased \$89 million, or 1.5%, during 2019 compared to 2018, driven by increases in networking and wireless postpaid service revenue as a result of an increase in wireless retail postpaid connections.

#### ***Wholesale***

Wholesale offers wireline communications services including data, voice, local dial tone and broadband services primarily to local, long distance, and wireless carriers that use our facilities to provide services to their customers.

Wholesale revenues decreased \$509 million, or 13.6%, during 2019 compared to 2018, primarily due to declines in core data and traditional voice services resulting from the effect of technology substitution and continuing contraction of market rates due to competition.

### **Operating Expenses**

Years Ended December 31,			(dollars in millions)	
			<b>Increase/(Decrease)</b>	
	<b>2019</b>	2018	<b>2019 vs. 2018</b>	
Cost of services	<b>\$ 10,655</b>	\$ 10,859	\$ (204)	(1.9)%
Cost of wireless equipment	<b>4,733</b>	4,560	173	3.8
Selling, general and administrative expense	<b>8,188</b>	7,689	499	6.5
Depreciation and amortization expense	<b>4,105</b>	4,258	(153)	(3.6)
<b>Total Operating Expenses</b>	<b>\$ 27,681</b>	\$ 27,366	<b>\$ 315</b>	<b>1.2</b>

#### ***Cost of Services***

Cost of services decreased \$204 million, or 1.9%, during 2019 compared to 2018, primarily due to lower access costs resulting from a decline in voice connections, as well as lower employee-related costs associated with the lower headcount resulting from the Voluntary Separation Program, offset by an increase in regulatory fees.

#### ***Cost of Wireless Equipment***

Cost of wireless equipment increased \$173 million, or 3.8%, during 2019 compared to 2018, primarily driven by a shift to higher priced units in the mix of wireless devices sold and an increase in the number of wireless devices sold.

#### ***Selling, General and Administrative Expense***

Selling, general and administrative expense increased \$499 million, or 6.5%, during 2019 compared to 2018, due to increases in advertising expenses and sales commission expense, which were partially offset by decreases in employee-related costs resulting from the Voluntary Separation Program. The increase in sales commission expense was primarily due to a lower net deferral of commission costs in 2019 as compared to 2018 as a result of the adoption of Topic 606 on January 1, 2018 using a modified retrospective approach.

#### ***Depreciation and Amortization Expense***

Depreciation and amortization expense decreased \$153 million, or 3.6%, during 2019 compared to 2018, driven by the change in the mix of total Verizon depreciable assets and Business's usage of those assets.

## Segment Operating Income and EBITDA

Years Ended December 31,	(dollars in millions)				
			<b>Increase/(Decrease)</b>		
	2019	2018	<b>2019 vs. 2018</b>		
<b>Segment Operating Income</b>	<b>\$ 3,762</b>	<b>\$ 4,168</b>	<b>\$ (406)</b>	<b>(9.7)%</b>	
Add Depreciation and amortization expense	<b>4,105</b>	4,258	(153)	(3.6)	
<b>Segment EBITDA</b>	<b>\$ 7,867</b>	<b>\$ 8,426</b>	<b>\$ (559)</b>	<b>(6.6)</b>	
<b>Segment operating income margin</b>	<b>12.0%</b>	13.2%			
<b>Segment EBITDA margin</b>	<b>25.0%</b>	26.7%			

The changes in the table above during the periods presented were primarily a result of the factors described in connection with operating revenues and operating expenses.

## Special Items

Special items included in Income Before (Provision) Benefit For Income Taxes were as follows:

Years Ended December 31,	(dollars in millions)	
	2019	2018
<b>Severance, pension and benefits charges (credits)</b>		
Selling, general and administrative expense	\$ 204	\$ 2,157
Other income (expense), net	126	(2,107)
<b>Acquisition and integration related charges</b>		
Selling, general and administrative expense	—	531
Depreciation and amortization expense	—	22
<b>Product realignment charges</b>		
Cost of services	—	303
Selling, general and administrative expense	—	147
Equity in losses of unconsolidated businesses	—	207
Depreciation and amortization expense	—	1
<b>Impairment charges</b>		
Media goodwill impairment	186	4,591
Equity in losses of unconsolidated businesses	50	—
<b>Early debt redemption costs</b>		
Other income (expense), net	3,604	725
<b>Net gain from dispositions of assets and businesses</b>		
Selling, general and administrative expense	(261)	—
<b>Total</b>	<b>\$ 3,909</b>	<b>\$ 6,577</b>

The Consolidated Adjusted EBITDA non-GAAP measure presented in the Consolidated Net Income, Consolidated EBITDA and Consolidated Adjusted EBITDA discussion (see "Consolidated Results of Operations") excludes all of the amounts included above, as described below.

The income and expenses related to special items included in our consolidated results of operations were as follows:

Years Ended December 31,	(dollars in millions)	
	2019	2018
Within Total Operating Expenses	\$ 129	\$ 7,752
Within Equity in losses of unconsolidated businesses	50	207
Within Other income (expense), net	3,730	(1,382)
<b>Total</b>	<b>\$ 3,909</b>	<b>\$ 6,577</b>

## **Severance, Pension and Benefits Charges (Credits)**

During 2019, in accordance with our accounting policy to recognize actuarial gains and losses in the period in which they occur, we recorded net pre-tax pension and benefits charges of \$126 million in our pension and postretirement benefit plans. The charges were recorded in Other income (expense), net in our consolidated statements of income and were primarily driven by a decrease in our discount rate assumption used to determine the current year liabilities of our pension plans and postretirement benefit plans from a weighted-average of 4.4% at December 31, 2018 to a weighted-average of 3.3% at December 31, 2019 (\$4.3 billion), partially offset by the difference between our estimated return on assets and our actual return on assets (\$2.3 billion) and other assumption adjustments of \$1.9 billion, of which \$1.6 billion related to healthcare claims experience. During 2019, we also recorded net pre-tax severance charges of \$204 million in Selling, general and administrative expense in our consolidated statements of income.

During 2018, we recorded net pre-tax pension and benefits credits of \$2.1 billion in accordance with our accounting policy to recognize actuarial gains and losses in the period in which they occur. The pension and benefits remeasurement credits of \$2.3 billion, which were recorded in Other income (expense), net in our consolidated statements of income, were primarily driven by an increase in our discount rate assumption used to determine the current year liabilities of our pension plans and postretirement benefit plans from a weighted-average of 3.7% at December 31, 2017 to a weighted-average of 4.4% at December 31, 2018 (\$2.6 billion), and mortality and other assumption adjustments of \$1.7 billion, \$1.6 billion of which related to healthcare claims and trend adjustments, offset by the difference between our estimated return on assets of 7.0% and our actual return on assets of (2.7)% (\$1.9 billion). The credits were partially offset by \$177 million due to the effects of participants retiring under the Voluntary Separation Program. During 2018, we also recorded net pre-tax severance charges of \$2.2 billion in Selling, general and administrative expense, primarily driven by the Voluntary Separation Program for select U.S.-based management employees and other headcount reduction initiatives, which resulted in a severance charge of \$1.8 billion (\$1.4 billion after-tax), and \$339 million in severance costs recorded under other existing separation plans.

Due to the presentation of the other components of net periodic benefit cost, we recognize a portion of the pension and benefits charges (credits) in Other income (expense), net in our consolidated statements of income.

See Note 11 to the consolidated financial statements for additional information related to severance, pension and benefits charges (credits).

## **Acquisition and Integration Related Charges**

Acquisition and integration related charges of \$553 million recorded during the year ended December 31, 2018 primarily related to the acquisition of Yahoo's operating business in June 2017.

## **Product Realignment Charges**

Product realignment charges of \$658 million recorded during the year ended December 31, 2018 primarily related to the discontinuation of the go90 platform and associated content during the second quarter of 2018.

## **Impairment Charges**

The impairment charges consist of write-downs of goodwill and other investments or assets. The goodwill impairment charges of \$186 million and \$4.6 billion recorded during the years ended December 31, 2019 and 2018, respectively, for Verizon Media were a result of the Company's annual impairment test performed in the fourth quarter (see "Critical Accounting Estimates"). In addition, we recorded an impairment charge of \$50 million in Equity in losses of unconsolidated businesses related to a media joint venture investment.

## **Early Debt Redemption Costs**

During 2019 and 2018, we recorded early debt redemptions costs of \$3.6 billion and \$725 million, respectively.

We recognize early debt redemptions costs in Other income (expense), net in our consolidated statements of income. See Note 7 to the consolidated financial statements for additional information related to our early debt redemptions.

## **Net Gain from Dispositions of Assets and Businesses**

During 2019, we recorded a pre-tax net gain from dispositions of assets and businesses of \$261 million in connection with the sale of various real estate properties and businesses.

## **Operating Environment and Trends**

The telecommunications industry is highly competitive. We expect competition to remain intense as traditional and non-traditional participants seek increased market share. Our high-quality customer base and networks differentiate us from our competitors and give us the ability to plan and manage through changing economic and competitive conditions. We remain focused on executing on the fundamentals of the business: maintaining a high-quality customer base, delivering strong financial and operating results and strengthening our balance sheet. We will continue to invest for growth, which we believe is the key to creating value for our shareholders. We continue to lead in 4G LTE performance while building momentum for our 5G network. Our strategy lays the foundation for the future through investments in our Intelligent Edge Network that enable efficiencies throughout our core infrastructure and deliver flexibility to meet customer requirements.

The U.S. wireless market has achieved a high penetration of smartphones, which reduces the opportunity for new phone connection growth for the industry. We expect future revenue growth in the industry to be driven by expanding existing customer relationships, increasing the number of ways customers can connect with wireless networks and services and increasing the penetration of other connected devices including wearables, tablets and IoT devices. We expect 5G technology will provide a significant opportunity for growth in the industry in 2021 and beyond. With respect to our wireless connectivity products and services, we compete against other national wireless service providers, including AT&T Inc., Sprint Corporation and T-Mobile USA, Inc., as well as various regional wireless service providers. We also compete for retail activations with resellers that buy bulk wholesale service from wireless service providers, including Verizon, and resell it to their customers. Resellers may include cable companies. We face competition from other communications and technology companies seeking to increase their brand recognition and capture customer revenue with respect to the provision of wireless products and services, in addition to non-traditional offerings in mobile data. For example, Microsoft Corporation, Alphabet Inc., Apple Inc. and others are offering alternative means for making wireless voice calls that, in certain cases, can be used in lieu of the wireless provider's voice service, as well as alternative means of accessing video content.

With respect to wireless services and equipment, pricing plays an important role in the wireless competitive landscape. We compete in this area by offering our customers services and devices that we believe they will regard as the best available value for the price. As the demand for wireless services continues to grow, wireless service providers are offering a range of service plans at competitive prices. These service offerings will vary from time to time based on customer needs, technology changes and market conditions and may be provided as standard plans or as part of limited time promotional offers.

We expect future service revenue growth opportunities to arise from increased access revenue as customers shift to higher access plans, as well as from increased connections per account. Future service revenue growth opportunities will be dependent on expanding the penetration of our services, increasing the number of ways that our customers can connect with our networks and services and the development of new ecosystems. We and other wireless service providers, as well as equipment manufacturers, offer device payment options, which provide customers with the ability to pay for their device over a period of time, and some providers offer device leasing arrangements.

Current and potential competitors in the wireline service market include cable companies, wireless service providers, domestic and foreign telecommunications providers, satellite television companies, Internet service providers, over-the-top providers and other companies that offer network services and managed enterprise solutions.

In addition, companies with a global presence are increasingly competing with us in our wireline services. A relatively small number of telecommunications and integrated service providers with global operations serve customers in the global enterprise market and, to a lesser extent, the global wholesale market. We compete with these providers for large contracts to provide integrated solutions to global enterprises. Many of these companies have strong market presence, brand recognition and existing customer relationships, all of which contribute to intensifying competition that may affect our future revenue growth.

Despite this challenging environment, we expect that we will be able to grow key aspects of our wireline services. We continue to provide network reliability and offer products, which include fiber-optic Internet access, several video services, and voice services. Further, we will continue to offer our business and government customers more robust IP products and services, and advance our IoT strategies by leveraging business models that monetize usage on our networks at the connectivity, platform and solution layers.

The online advertising market continues to evolve as online users are migrating from traditional desktop to mobile and multiple-device usage. Also, there is a continued shift towards programmatic advertising which presents opportunities to connect online advertisers with the appropriate online users in a rapid environment. Our Media business competes with other online search engines, advertising platforms, digital video services and social networks. We are experiencing pressure from search and desktop usage and believe the pressure in these sectors will continue. We are implementing initiatives to realize synergies across all of our media assets and build services around our core content pillars to diversify revenue and return to growth.

We will also continue to focus on cost efficiencies to ensure we have the maximum flexibility to adjust to changes in the competitive and economic environments and maximize returns to shareholders.

## **2020 Connection Trends**

In our Consumer segment, we expect to continue to attract new customers and maintain high-quality retail postpaid customers, capitalizing on demand for data services and providing our customers new ways of using wireless services in their daily lives. We expect that future connection growth will be driven by smartphones, tablets and other connected devices such as wearables. We believe the combination of our wireless network performance and Mix & Match unlimited plans provides a superior customer experience, supporting increased penetration of data services and the continued attraction and retention of higher valued retail postpaid connections. We expect to manage churn by providing a consistent, reliable experience on our wireless service and focusing on improving the customer experience through simplified pricing and continued focus in our distribution channels. We expect to continue to grow our Fios Internet connections as we seek to increase our penetration rates within our Fios service areas, further supported by the demand for higher speed internet connections. In Fios video, the business continues to face ongoing pressure as observed throughout the linear television market. We expect to manage market pressure by offering customers a choice of video service, including options such as Mix & Match on Fios and other offerings. We have experienced continuing access line and DSL losses as customers have disconnected both primary and secondary lines and switched to alternative technologies such as wireless, VoIP and cable for voice and data services.

In our Business segment, we offer wireless products and services to business and government customers across the U.S. We continue to grow our retail connections while facing a competitive environment. We expect to maintain connection growth in part by adding capacity and density

to our 4G LTE network, in addition to leading the build-out of 5G technology. We expect this connection growth, combined with our industry-leading network assets, will provide additional opportunities to sell solutions, such as those around security, advanced communications and professional services. We expect to expand our existing services offered to business customers through our Intelligent Edge Network, our multi-use platform.

## **2020 Operating Revenue Trends**

In our Consumer segment, we expect to see a continuation of the service revenue trends from 2019 as customers shift to higher access plans with additional services and increase the number of devices they connect with our networks and services. Equipment revenues are largely dependent on wireless device sales volumes, the mix of devices, promotions and upgrades, which are subject to device lifecycles, iconic device launches and competition within the wireless industry. We anticipate an increase in wireless device upgrades in the second half of the year as we expand the availability and reach of our 5G network.

In our Business segment, we expect overall revenue growth in 2020 as wireless services and our high-quality fiber-based products will offset secular declines from legacy technologies and pressure from competition. We expect wireless revenue to expand, driven by connection growth led by Small and Medium Business. We expect our Fios products, through increased penetration, will also contribute to revenue growth. Legacy traditional wireline services continue to face secular pressures.

Our Media Business, Verizon Media, is primarily made up of digital advertising products. We are experiencing revenue pressure from search and desktop usage, which started to improve throughout 2019 and believe the pressure in those sectors will continue. We are focused on returning to revenue growth by implementing initiatives to realize synergies across all of our media assets and building services around our core content pillars. We expect positive growth in mobile services and products.

## **2020 Operating Expense and Cash Flow from Operations Trends**

We expect our consolidated operating income margin and adjusted consolidated EBITDA margin to remain strong as we continue to undertake initiatives to reduce our overall cost structure by improving productivity and gaining efficiencies in our operations throughout the business in 2020 and beyond. Business Excellence initiatives include the adoption of the zero-based budgeting methodology, driving capital efficiencies from the architecture of the networks, evolving our Information Technology strategy and the continuing benefit from the Voluntary Separation Program. We believe our additional investments in our Business segment in both product simplification and continued focus on process improvements and new work tools will drive cost savings and create incremental growth opportunities in areas such as 5G and One Fiber. The goal of the Business Excellence initiative is to take \$10 billion of cumulative cash outflows out of the business over four years, beginning with 2018. As part of this initiative, we are focusing on both operating expenses and capital expenditures. Our Business Excellence initiatives produced cumulative cash savings of \$5.7 billion through the end of 2019 from a mix of capital and operational expenditure activities. The program remains on track to achieve our goal. Expenses related to programs funded through the reinvestment of program savings are expected to apply offsetting pressures to our margins.

The implementation of Topic 606 resulted in the deferral of commission expense in both our Consumer and Business segments. In 2020, we expect a smaller year-over-year benefit from the adoption of the standard due to the deferral of commission costs as compared to 2018 and 2019. The reduction in benefit creates a year-over-year headwind to operating income.

We create value for our shareholders by investing the cash flows generated by our business in opportunities and transactions that support continued profitable growth, thereby increasing customer satisfaction and usage of our products and services. In addition, we have used our cash flows to maintain and grow our dividend payout to shareholders. Verizon's Board of Directors increased the Company's quarterly dividend by 2.1% during 2019, making this the thirteenth consecutive year in which we have raised our dividend.

Our goal is to use our cash to create long-term value for our shareholders. We will continue to look for investment opportunities that will help us to grow the business, strengthen our balance sheet, acquire spectrum licenses (see "Cash Flows from Investing Activities"), pay dividends to our shareholders and, when appropriate, buy back shares of our outstanding common stock (see "Cash Flows from Financing Activities").

## **Capital Expenditures**

Our 2020 capital program includes capital to fund advanced networks and services, including expanding our core networks, adding capacity and density to our 4G LTE network in order to stay ahead of our customers' increasing data demands and deploying our 5G network, transforming our structure to deploy the Intelligent Edge Network while reducing the cost to deliver services to our customers, and pursuing other opportunities to drive operating efficiencies. We expect that the new network architecture will simplify operations by eliminating legacy network elements, improve our 4G LTE coverage, speed the deployment of 5G technology, and create new enterprise opportunities in the business market. The level and the timing of the Company's capital expenditures within these broad categories can vary significantly as a result of a variety of factors outside of our control, such as material weather events, equipment availability from vendors and permits from local governments. Capital expenditures for 2020 are expected to be in the range of \$17.0 billion to \$18.0 billion, including the continued investment in our 5G network. Capital expenditures were \$17.9 billion in 2019 and \$16.7 billion in 2018. We believe that we have significant discretion over the amount and timing of our capital expenditures on a Company-wide basis as we are not subject to any agreement that would require significant capital expenditures on a designated schedule or upon the occurrence of designated events.

## Consolidated Financial Condition

	(dollars in millions)	
Years Ended December 31,	2019	2018
<b>Cash flows provided by (used in)</b>		
Operating activities	\$ 35,746	\$ 34,339
Investing activities	(17,581)	(17,934)
Financing activities	(18,164)	(15,377)
<b>Increase in cash, cash equivalents and restricted cash</b>	<b>\$ 1</b>	<b>\$ 1,028</b>

We use the net cash generated from our operations to fund expansion and modernization of our networks, service and repay external financing, pay dividends, invest in new businesses and spectrum and, when appropriate, buy back shares of our outstanding common stock. Our sources of funds, primarily from operations and, to the extent necessary, from external financing arrangements, are sufficient to meet ongoing operating and investing requirements. We expect that our capital spending requirements will continue to be financed primarily through internally generated funds. Debt or equity financing may be needed to fund additional investments or development activities or to maintain an appropriate capital structure to ensure our financial flexibility. Our cash and cash equivalents are held both domestically and internationally, and are invested to maintain principal and provide liquidity. See "Market Risk" for additional information regarding our foreign currency risk management strategies.

Our available external financing arrangements include an active commercial paper program, credit available under credit facilities and other bank lines of credit, vendor financing arrangements, issuances of registered debt or equity securities, U.S. retail medium-term notes and other capital market securities that are privately-placed or offered overseas. In addition, we monetize our device payment plan agreement receivables through asset-backed debt transactions.

### Cash Flows Provided By Operating Activities

Our primary source of funds continues to be cash generated from operations. Net cash provided by operating activities increased by \$1.4 billion during 2019, compared to the similar period in 2018, primarily due to an increase in earnings and a decrease in discretionary contributions to qualified employee benefit plans, offset by changes in working capital, which includes an increase in cash income taxes as well as severance payments as a result of the Voluntary Separation Program. We made \$300 million and \$1.7 billion in discretionary employee benefits contributions to our defined benefit pension plan during 2019 and 2018, respectively. As a result of the discretionary pension contributions, we expect that there will be no required pension funding until 2026, which will continue to benefit future cash flows. These contributions also improved the funded status of our qualified pension plan.

### Cash Flows Used In Investing Activities

#### Capital Expenditures

Capital expenditures continue to relate primarily to the use of capital resources to facilitate the introduction of new products and services, enhance responsiveness to competitive challenges, maintain our existing infrastructure and increase the operating efficiency and productivity of our networks.

Capital expenditures, including capitalized software, were as follows:

	(dollars in millions)			
Years Ended December 31,	2019		2018	
Capital expenditures (including capitalized software)	\$	17,939	\$	16,658
Total as a percentage of revenue		13.6%		12.7%

Capital expenditures increased in 2019 primarily due to an increase in investments to support multi-use fiber assets, which support the densification of our 4G LTE network and our 5G technology deployment. Our investments are primarily related to network infrastructure to support the business.

#### Acquisitions

During 2019 and 2018, we invested \$898 million and \$1.4 billion, respectively, in acquisitions of wireless licenses. During 2019 and 2018, we also invested an insignificant amount and \$230 million, respectively, in acquisitions of businesses, net of cash acquired.

In 2019, the FCC completed two millimeter wave spectrum license auctions. We paid approximately \$521 million for spectrum licenses in connection with these auctions. See Note 3 to the consolidated financial statements for additional information.

In January 2018, Verizon acquired NextLink Wireless LLC (NextLink) from a wholly-owned subsidiary of XO Holdings for approximately \$493 million, subject to certain adjustments, of which \$320 million (an option exercise price to acquire NextLink) was prepaid in the first quarter of 2017. The option exercise price represented the fair value of the option. The remaining cash consideration was paid at the closing of the transaction. The spectrum acquired as part of the transaction is being used for our 5G technology deployment.

In February 2018, Verizon acquired Straight Path Communications Inc. (Straight Path), a holder of millimeter wave spectrum configured for 5G wireless services for total consideration reflecting an enterprise value of approximately \$3.1 billion, which was primarily settled with Verizon shares but also included transaction costs payable in cash of approximately \$736 million, consisting primarily of a fee paid to the FCC. The spectrum acquired as part of the transaction is being used for our 5G technology deployment.

During 2019 and 2018, we completed various other acquisitions for an insignificant amount of cash consideration.

See "Acquisitions and Divestitures" for information on our acquisitions.

### **Dispositions**

During 2019, we received gross proceeds of approximately \$1.0 billion for a sale-leaseback transaction for buildings and real estate. See Note 6 to the consolidated financial statements for additional information.

### **Cash Flows Used In Financing Activities**

We seek to maintain a mix of fixed and variable rate debt to lower borrowing costs within reasonable risk parameters and to protect against earnings and cash flow volatility resulting from changes in market conditions. During 2019 and 2018, net cash used in financing activities was \$18.2 billion and \$15.4 billion, respectively.

#### **2019**

During 2019, our net cash used in financing activities of \$18.2 billion was primarily driven by:

- \$23.9 billion used for repayments, redemptions and repurchases of long-term borrowings and finance lease obligations, which included \$6.3 billion used for prepayments and repayments of asset-backed long-term borrowings;
- \$10.0 billion used for dividend payments; and
- \$1.8 billion used for net debt related costs.

These uses of cash were partially offset by proceeds from long-term borrowings of \$18.7 billion, which included \$8.6 billion of proceeds from our asset-backed debt transactions.

#### ***Proceeds from and Repayments, Redemptions, and Repurchases of Long-Term Borrowings***

At December 31, 2019, our total debt decreased to \$111.5 billion as compared to \$113.1 billion at December 31, 2018. During both the years ended December 31, 2019 and 2018, our effective interest rate was 4.8%. The substantial majority of our total debt portfolio consists of fixed rate indebtedness, therefore, changes in interest rates do not have a material effect on our interest payments. See also "Market Risk" and Note 7 to the consolidated financial statements for additional information.

At December 31, 2019, approximately \$23.5 billion, or 21.1%, of the aggregate principal amount of our total debt portfolio consisted of foreign denominated debt, primarily the Euro and British Pound Sterling. We have entered into cross currency swaps on substantially all of our foreign denominated debt in order to fix our future interest and principal payments in U.S. dollars and mitigate the impact of foreign currency transaction gains or losses. See "Market Risk" for additional information.

Verizon may continue to repurchase debt securities issued by Verizon and its affiliates in the future through open market purchases, privately negotiated transactions, tender offers, exchange offers, or otherwise, upon such terms and at such prices as Verizon may from time to time determine for cash or other consideration.

#### ***Other, net***

Other, net financing activities during 2019 includes early redemption costs, see "Special Items" for additional information, as well as cash paid on debt exchanges and derivative-related transactions. See Note 15 to the consolidated financial statements for additional information.

#### ***Dividends***

The Verizon Board of Directors assesses the level of our dividend payments on a periodic basis taking into account such factors as long-term growth opportunities, internal cash requirements and the expectations of our shareholders. During the third quarter of 2019, the Board increased our quarterly dividend payment by 2.1% to \$0.6150 from \$0.6025 per share from the previous quarter. This is the thirteenth consecutive year that Verizon's Board of Directors has approved a quarterly dividend increase.

As in prior periods, dividend payments were a significant use of capital resources. During 2019, we paid \$10.0 billion in dividends.

#### **2018**

During 2018, our net cash used in financing activities of \$15.4 billion was primarily driven by:

- \$14.6 billion used for repayments, redemptions and repurchases of long-term borrowings and finance lease obligations, which included \$3.6 billion used for prepayments of asset-backed long-term borrowings; and
- \$9.8 billion used for dividend payments.



These uses of cash were partially offset by proceeds from long-term borrowings of \$10.8 billion, which included \$4.8 billion of proceeds from our asset-backed debt transactions.

#### ***Proceeds from and Repayments, Redemptions, and Repurchases of Long-Term Borrowings***

At December 31, 2018, our total debt was \$113.1 billion, and during the year ended December 31, 2018, our effective interest rate was 4.8%. The substantial majority of our total debt portfolio consisted of fixed rate indebtedness, therefore, changes in interest rates did not have a material effect on our interest payments. See "Market Risk" and Note 7 to the consolidated financial statements for additional information.

At December 31, 2018, approximately \$17.1 billion, or 15.1%, of the aggregate principal amount of our total debt portfolio consisted of foreign denominated debt, primarily the Euro and British Pound Sterling. We have entered into cross currency swaps on a majority of our foreign denominated debt in order to fix our future interest and principal payments in U.S. dollars and mitigate the impact of foreign currency transaction gains or losses. See "Market Risk" for additional information.

#### ***Other, net***

Other, net financing activities during 2018, included early debt redemption costs. See "Special Items" for additional information, as well as cash paid on debt exchanges and derivative-related transactions.

#### ***Dividends***

During the third quarter of 2018, the Board increased our quarterly dividend payment by 2.1% to \$0.6025 per share.

As in prior periods, dividend payments were a significant use of capital resources. During 2018, we paid \$9.8 billion in dividends.

#### ***Asset-Backed Debt***

As of December 31, 2019, the carrying value of our asset-backed debt was \$12.4 billion. Our asset-backed debt includes Asset-Backed Notes (ABS Notes) issued to third-party investors (Investors) and loans (ABS Financing Facilities) received from banks and their conduit facilities (collectively, the Banks). Our consolidated asset-backed debt bankruptcy remote legal entities (each, an ABS Entity or collectively, the ABS Entities) issue the debt or are otherwise party to the transaction documentation in connection with our asset-backed debt transactions. Under the terms of our asset-backed debt, Cellco Partnership (Cellco) and certain other affiliates of Verizon (collectively, the Originators) transfer device payment plan agreement receivables to one of the ABS Entities, which in turn transfers such receivables to another ABS Entity that issues the debt. Verizon entities retain the equity interests in the ABS Entities, which represent the rights to all funds not needed to make required payments on the asset-backed debt and other related payments and expenses.

Our asset-backed debt is secured by the transferred device payment plan agreement receivables and future collections on such receivables. The device payment plan agreement receivables transferred to the ABS Entities and related assets, consisting primarily of restricted cash, will only be available for payment of asset-backed debt and expenses related thereto, payments to the Originators in respect of additional transfers of device payment plan agreement receivables, and other obligations arising from our asset-backed debt transactions, and will not be available to pay other obligations or claims of Verizon's creditors until the associated asset-backed debt and other obligations are satisfied. The Investors or Banks, as applicable, which hold our asset-backed debt have legal recourse to the assets securing the debt, but do not have any recourse to Verizon with respect to the payment of principal and interest on the debt. Under a parent support agreement, Verizon has agreed to guarantee certain of the payment obligations of Cellco and the Originators to the ABS Entities.

Cash collections on the device payment plan agreement receivables collateralizing our asset-backed debt securities are required at certain specified times to be placed into segregated accounts. Deposits to the segregated accounts are considered restricted cash and are included in Prepaid expenses and other, and Other assets in our consolidated balance sheets.

Proceeds from our asset-backed debt transactions are reflected in Cash flows from financing activities in our consolidated statements of cash flows. The asset-backed debt issued and the assets securing this debt are included in our consolidated balance sheets. See Note 7 to the consolidated financial statements for additional information.

In May 2018, we entered into an ABS financing facility with a number of financial institutions (2018 ABS Financing Facility). One loan agreement was entered into in connection with the 2018 ABS Financing Facility. In May 2019, the \$540 million outstanding under the loan agreement was prepaid, and the loan agreement was terminated.

In September 2016, we entered into an ABS financing facility with a number of financial institutions (2016 ABS Financing Facility). Two loan agreements were entered into in connection with the 2016 ABS Financing Facility in September 2016 and May 2017. In April and May 2019, we paid off both the 2016 and 2017 loans for an aggregate of \$671 million, and the loan agreements were terminated.

In May 2019, the 2016 ABS Financing Facility was amended and restated (2019 ABS Financing Facility). One loan agreement was entered into in connection with the 2019 ABS Financing Facility. Under the 2019 loan agreement, we have the right to prepay all or a portion of the advances at any time without penalty, but in certain cases, with breakage costs. During 2019, we received \$4.8 billion of borrowings and prepaid \$1.5 billion under the 2019 loan agreement.

## Long-Term Credit Facilities

(dollars in millions)	Maturities	Facility Capacity	At December 31, 2019		
			Unused Capacity	Principal Amount Outstanding	
Verizon revolving credit facility <sup>(1)</sup>	2022	\$ 9,500	\$ 9,390	N/A	
Various export credit facilities <sup>(2)</sup>	2022-2027	5,500	—	4,471	
<b>Total</b>		<b>\$ 15,000</b>	<b>\$ 9,390</b>	<b>\$</b>	<b>4,471</b>

<sup>(1)</sup> The revolving credit facility does not require us to comply with financial covenants or maintain specified credit ratings, and it permits us to borrow even if our business has incurred a material adverse change. The revolving credit facility provides for the issuance of letters of credit.

<sup>(2)</sup> During 2019 and 2018, we drew down \$1.5 billion and \$3.0 billion from these facilities, respectively. We use these credit facilities to finance equipment-related purchases.

## Common Stock

Common stock has been used from time to time to satisfy some of the funding requirements of employee and shareholder plans. During the years ended December 31, 2019 and 2018, we issued 3.8 million and 3.5 million common shares from Treasury stock, respectively, which had an insignificant aggregate value.

In February 2020, the Verizon Board of Directors authorized a share buyback program to repurchase up to 100 million shares of the Company's common stock. The program will terminate when the aggregate number of shares purchased reaches 100 million, or a new share repurchase plan superseding the current plan is authorized, whichever is sooner. The program permits Verizon to repurchase shares over time, with the amount and timing of repurchases depending on market conditions and corporate needs. There were no repurchases of common stock during 2019 or 2018 under our previously authorized share buyback program.

## Credit Ratings

Verizon's credit ratings did not change in 2019 or 2018.

Securities ratings assigned by rating organizations are expressions of opinion and are not recommendations to buy, sell or hold securities. A securities rating is subject to revision or withdrawal at any time by the assigning rating organization. Each rating should be evaluated independently of any other rating.

## Covenants

Our credit agreements contain covenants that are typical for large, investment grade companies. These covenants include requirements to pay interest and principal in a timely fashion, pay taxes, maintain insurance with responsible and reputable insurance companies, preserve our corporate existence, keep appropriate books and records of financial transactions, maintain our properties, provide financial and other reports to our lenders, limit pledging and disposition of assets and mergers and consolidations, and other similar covenants.

We and our consolidated subsidiaries are in compliance with all of our restrictive covenants in our debt agreements.

## Change In Cash, Cash Equivalents and Restricted Cash

Our Cash and cash equivalents at December 31, 2019 totaled \$2.6 billion, a \$151 million decrease compared to Cash and cash equivalents at December 31, 2018, primarily as a result of the factors discussed above.

Restricted cash at December 31, 2019 totaled \$1.3 billion, a \$152 million increase compared to restricted cash at December 31, 2018, primarily due to cash collections on the device payment plan agreement receivables that are required at certain specified times to be placed into segregated accounts.

## Free Cash Flow

Free cash flow is a non-GAAP financial measure that reflects an additional way of viewing our liquidity that, when viewed with our GAAP results, provides a more complete understanding of factors and trends affecting our cash flows. Free cash flow is calculated by subtracting capital expenditures from net cash provided by operating activities. We believe it is a more conservative measure of cash flow since purchases of fixed assets are necessary for ongoing operations. Free cash flow has limitations due to the fact that it does not represent the residual cash flow available for discretionary expenditures. For example, free cash flow does not incorporate payments made on finance lease obligations or cash payments for business acquisitions or wireless licenses. Therefore, we believe it is important to view free cash flow as a complement to our entire consolidated statements of cash flows.

The following table reconciles net cash provided by operating activities to Free cash flow:

	(dollars in millions)			
Years Ended December 31,	2019		2018	
Net cash provided by operating activities	\$	35,746	\$	34,339
Less Capital expenditures (including capitalized software)		17,939		16,658
<b>Free cash flow</b>	<b>\$</b>	<b>17,807</b>	<b>\$</b>	<b>17,681</b>

The increase in free cash flow during 2019 is a reflection of the increase in operating cash flows, partially offset by the increase in capital expenditures discussed above.

## Employee Benefit Plans Funded Status and Contributions

### Employer Contributions

We operate numerous qualified and nonqualified pension plans and other postretirement benefit plans. These plans primarily relate to our domestic business units. During 2019 and 2018, contributions to our qualified pension plans were \$300 million and \$1.0 billion, respectively. We made contributions of \$71 million in 2019 to our nonqualified pension plans.

The Company's overall investment strategy is to achieve a mix of assets that allows us to meet projected benefit payments while taking into consideration risk and return. In an effort to reduce the risk of our portfolio strategy and better align assets with liabilities, we have adopted a liability driven pension strategy that seeks to better match cash flows from investments with projected benefit payments. We expect that the strategy will reduce the likelihood that assets will decline at a time when liabilities increase (referred to as liability hedging), with the goal to reduce the risk of underfunding to the plan and its participants and beneficiaries; however, we also expect the strategy to result in lower asset returns. Nonqualified pension contributions are estimated to be approximately \$70 million in 2020.

Contributions to our other postretirement benefit plans generally relate to payments for benefits on an as-incurred basis since these other postretirement benefit plans do not have funding requirements similar to the pension plans. We contributed \$449 million to our other postretirement benefit plans in 2019 and \$1.2 billion, including \$679 million discretionary contributions, in 2018. Contributions to our other postretirement benefit plans are estimated to be approximately \$700 million in 2020.

## Leasing Arrangements

See Note 6 to the consolidated financial statements for a discussion of leasing arrangements.

## Contractual Obligations

The following table provides a summary of our contractual obligations and commercial commitments at December 31, 2019. Additional detail about these items is included in the notes to the consolidated financial statements.

(dollars in millions)

Contractual Obligations	Payments Due By Period				
	Total	Less than 1 year	1 to 3 years	3 to 5 years	More than 5 years
Long-term debt <sup>(1)</sup>	\$ 110,865	\$ 10,470	\$ 16,431	\$ 9,803	\$ 74,161
Finance lease obligations <sup>(2)</sup>	1,213	366	479	244	124
<b>Total long-term debt, including current maturities</b>	<b>112,078</b>	<b>10,836</b>	<b>16,910</b>	<b>10,047</b>	<b>74,285</b>
Interest on long-term debt <sup>(1)</sup>	62,450	4,578	8,383	7,426	42,063
Operating leases <sup>(2)</sup>	25,968	4,099	7,127	5,485	9,257
Purchase obligations <sup>(3)</sup>	18,769	8,384	7,448	1,441	1,496
Other long-term liabilities <sup>(4)</sup>	4,135	694	1,692	1,749	—
Finance obligations <sup>(5)</sup>	1,539	281	579	603	76
<b>Total contractual obligations</b>	<b>\$ 224,939</b>	<b>\$ 28,872</b>	<b>\$ 42,139</b>	<b>\$ 26,751</b>	<b>\$ 127,177</b>

<sup>(1)</sup> Items included in long-term debt with variable coupon rates exclude unamortized debt issuance costs, and are described in Note 7 to the consolidated financial statements.

<sup>(2)</sup> See Note 6 to the consolidated financial statements for additional information.

<sup>(3)</sup> Items included in purchase obligations are primarily commitments to purchase content and network services, equipment, software and marketing services, which will be used or sold in the ordinary course of business. These amounts do not represent our entire anticipated purchases in the future, but represent only those items that are the subject of contractual obligations. We also purchase products and services as needed with no firm commitment. For this reason, the amounts presented in this table alone do not provide a reliable indicator of our expected future cash outflows or changes in our expected cash position. See Note 16 to the consolidated financial statements for additional information.

<sup>(4)</sup> Other long-term liabilities represent estimated postretirement benefit and qualified pension plan contributions. Estimated qualified pension plan contributions include expected minimum funding contributions, which commence in 2026 based on the plan's current funded status. Estimated postretirement benefit payments include expected future postretirement benefit payments. These estimated amounts: (1) are subject to change based on changes to assumptions and future plan performance, which could impact the timing or amounts of these payments; and (2) exclude expectations beyond 5 years due to uncertainty of the timing and amounts. See Note 11 to the consolidated financial statements for additional information.

<sup>(5)</sup> Represents future minimum payments under the sublease arrangement for our tower transaction. See Note 6 to the consolidated financial statements for additional information.

We are not able to make a reasonable estimate of when the unrecognized tax benefits balance of \$2.9 billion and related interest and penalties will be settled with the respective taxing authorities until issues or examinations are further developed. See Note 12 to the consolidated financial statements for additional information.

## Guarantees

We guarantee the debentures of our operating telephone company subsidiaries as well as the debt obligations of GTE LLC, as successor in interest to GTE Corporation, that were issued and outstanding prior to July 1, 2003. See Note 7 to the consolidated financial statements for additional information.

In connection with the execution of agreements for the sale of businesses and investments, Verizon ordinarily provides representations and warranties to the purchasers pertaining to a variety of nonfinancial matters, such as ownership of the securities being sold, as well as financial losses. See Note 16 to the consolidated financial statements for additional information.

As of December 31, 2019, letters of credit totaling approximately \$632 million, which were executed in the normal course of business and support several financing arrangements and payment obligations to third parties, were outstanding. See Note 16 to the consolidated financial statements for additional information.

## Market Risk

We are exposed to various types of market risk in the normal course of business, including the impact of interest rate changes, foreign currency exchange rate fluctuations, changes in investment, equity and commodity prices and changes in corporate tax rates. We employ risk management strategies, which may include the use of a variety of derivatives including cross currency swaps, forward starting interest rate swaps, interest rate swaps, interest rate caps and foreign exchange forwards. We do not hold derivatives for trading purposes.

It is our general policy to enter into interest rate, foreign currency and other derivative transactions only to the extent necessary to achieve our desired objectives in optimizing exposure to various market risks. Our objectives include maintaining a mix of fixed and variable rate debt to lower borrowing costs within reasonable risk parameters and to protect against earnings and cash flow volatility resulting from changes in market conditions. We do not hedge our market risk exposure in a manner that would completely eliminate the effect of changes in interest rates and foreign exchange rates on our earnings.

Counterparties to our derivative contracts are major financial institutions with whom we have negotiated derivatives agreements (ISDA master agreements) and credit support annex (CSA) agreements which provide rules for collateral exchange. Negotiations and executions of new ISDA master agreements and CSA agreements with our counterparties continued during 2018. The CSA agreements contain rating based thresholds such that we or our counterparties may be required to hold or post collateral based upon changes in outstanding positions as compared to established thresholds and changes in credit ratings. At December 31, 2019, we held an insignificant amount and at December 31, 2018, we posted approximately \$0.1 billion of collateral related to derivative contracts under collateral exchange arrangements, which were recorded as Other current liabilities and Prepaid expenses and other, respectively, in our consolidated balance sheets. While we may be exposed to credit losses due to the nonperformance of our counterparties, we consider the risk remote and do not expect that any such nonperformance would result in a significant effect on our results of operations or financial condition due to our diversified pool of counterparties. See Note 9 to the consolidated financial statements for additional information regarding the derivative portfolio.

## Interest Rate Risk

We are exposed to changes in interest rates, primarily on our short-term debt and the portion of long-term debt that carries floating interest rates. As of December 31, 2019, approximately 79% of the aggregate principal amount of our total debt portfolio consisted of fixed rate indebtedness, including the effect of interest rate swap agreements designated as hedges. The impact of a 100-basis-point change in interest rates affecting our floating rate debt would result in a change in annual interest expense, including our interest rate swap agreements that are designated as hedges, of approximately \$248 million. The interest rates on our existing long-term debt obligations are unaffected by changes to our credit ratings.

Certain of our floating rate debt and our interest rate derivative transactions utilize interest rates that are linked to the London Inter-Bank Offered Rate (LIBOR) as the benchmark rate. LIBOR is the subject of recent U.S. and international regulatory guidance and proposals for reform. These reforms and other pressures may cause LIBOR to become unavailable or to perform or be reported differently than in the past. The consequences of these developments cannot be entirely predicted but could include an increase in the cost of our floating rate debt or exposure under our interest rate derivative transactions. We do not anticipate a significant impact to our financial position given our current mix of variable and fixed-rate debt, taking into account the impact of our interest rate hedging.

The table that follows summarizes the fair values of our long-term debt, including current maturities, and interest rate swap derivatives as of December 31, 2019 and 2018. The table also provides a sensitivity analysis of the estimated fair values of these financial instruments assuming 100-basis-point upward and downward shifts in the yield curve. Our sensitivity analysis does not include the fair values of our commercial paper and bank loans, if any, because they are not significantly affected by changes in market interest rates.

		(dollars in millions)	
		Fair Value	Fair Value assuming + 100 basis point shift
			Fair Value assuming - 100 basis point shift
Long-term debt and related derivatives			
At December 31, 2019	\$	128,633	\$ 119,288
At December 31, 2018		119,195	111,250
			128,957

## Interest Rate Swaps

We enter into interest rate swaps to achieve a targeted mix of fixed and variable rate debt. We principally receive fixed rates and pay variable rates that are currently based on LIBOR, resulting in a net increase or decrease to Interest expense. These swaps are designated as fair value hedges and hedge against interest rate risk exposure of designated debt issuances. At December 31, 2019, the fair value of the asset and liability of these contracts were \$568 million and \$173 million, respectively. At December 31, 2018, the fair value of the asset and liability of these contracts were insignificant and \$813 million, respectively. At December 31, 2019 and 2018, the total notional amount of the interest rate swaps was \$17.0 billion and \$19.8 billion, respectively.

## Forward Starting Interest Rate Swaps

We have entered into forward starting interest rate swaps designated as cash flow hedges in order to manage our exposure to interest rate changes on future forecasted transactions. At December 31, 2019 and 2018, the fair value of the liability of these contracts was \$604 million and \$60 million, respectively. At December 31, 2019 and 2018, the total notional amount of the forward starting interest rate swaps was \$3.0 billion and \$4.0 billion, respectively.

## Interest Rate Caps

We also have interest rate caps which we use as an economic hedge but for which we have elected not to apply hedge accounting. We enter into interest rate caps to mitigate our interest exposure to interest rate increases on our ABS Financing Facility and ABS Notes. The fair value of the asset and liability of these contracts was insignificant at both December 31, 2019 and 2018. At December 31, 2019 and 2018, the total notional value of these contracts was \$679 million and \$2.2 billion, respectively.

## Foreign Currency Translation

The functional currency for our foreign operations is primarily the local currency. The translation of income statement and balance sheet amounts of our foreign operations into U.S. dollars is recorded as cumulative translation adjustments, which are included in Accumulated other comprehensive income in our consolidated balance sheets. Gains and losses on foreign currency transactions are recorded in the consolidated statements of income in Other income (expense), net. At December 31, 2019, our primary translation exposure was to the British Pound Sterling, Euro, Australian Dollar and Japanese Yen.

## Cross Currency Swaps

We have entered into cross currency swaps designated as cash flow hedges to exchange our British Pound Sterling, Euro, Swiss Franc and Australian Dollar-denominated cash flows into U.S. dollars and to fix our cash payments in U.S. dollars, as well as to mitigate the impact of foreign currency transaction gains or losses. The fair value of the asset of these contracts was \$211 million and \$220 million at December 31, 2019 and 2018, respectively. At December 31, 2019 and 2018, the fair value of the liability of these contracts was \$912 million and \$536 million, respectively. At December 31, 2019 and 2018, the total notional amount of the cross currency swaps was \$23.1 billion and \$16.6 billion, respectively.

## Foreign Exchange Forwards

We also have foreign exchange forwards which we use as an economic hedge but for which we have elected not to apply hedge accounting. We enter into British Pound Sterling and Euro foreign exchange forwards to mitigate our foreign exchange rate risk related to non-functional currency denominated monetary assets and liabilities of international subsidiaries. At December 31, 2019, the fair value of the asset of these contracts was insignificant. At December 31, 2019 and 2018, the total notional amount of the foreign exchange forwards was \$1.1 billion and \$600 million, respectively.

## Critical Accounting Estimates and Recently Issued Accounting Standards

### Critical Accounting Estimates

A summary of the critical accounting estimates used in preparing our financial statements is as follows:

#### Wireless Licenses and Goodwill

Wireless licenses and Goodwill are a significant component of our consolidated assets. Both our wireless licenses and goodwill are treated as indefinite-lived intangible assets and, therefore are not amortized, but rather are tested for impairment annually in the fourth fiscal quarter, unless there are events requiring an earlier assessment or changes in circumstances during an interim period providing impairment indicators are present. We believe our estimates and assumptions are reasonable and represent appropriate marketplace considerations as of the valuation date. Although we use consistent methodologies in developing the assumptions and estimates underlying the fair value calculations used in our impairment tests, these estimates and assumptions are uncertain by nature, may change over time and can vary from actual results. It is possible that in the future there may be changes in our estimates and assumptions, including the timing and amount of future cash flows, margins, growth rates, market participant assumptions, comparable benchmark companies and related multiples and discount rates, which could result in different fair value estimates. Significant and adverse changes to any one or more of the above-noted estimates and assumptions could result in a goodwill impairment for one or more of our reporting units.

#### Wireless Licenses

The carrying value of our wireless licenses was approximately \$95.1 billion as of December 31, 2019. We aggregate our wireless licenses into one single unit of accounting, as we utilize our wireless licenses on an integrated basis as part of our nationwide wireless network. Our wireless licenses provide us with the exclusive right to utilize certain radio frequency spectrum to provide wireless communication services. There are currently no legal, regulatory, contractual, competitive, economic or other factors that limit the useful life of our wireless licenses.

In 2019, we performed a qualitative impairment assessment to determine whether it is more likely than not that the fair value of our wireless licenses was less than the carrying amount. As part of our assessment we considered several qualitative factors including the historical business enterprise value of our wireless business, macroeconomic conditions (including changes in interest rates and discount rates), industry and market considerations (including industry revenue and EBITDA margin projections), the recent and projected financial performance of our wireless business as a whole, as well as other factors.

In 2018, our quantitative impairment test consisted of comparing the estimated fair value of our aggregate wireless licenses to the aggregated carrying amount as of the test date.

Our impairment test in 2019 indicated that it is more likely than not that the fair value of our wireless licenses remained above their carrying value and, therefore, did not result in an impairment. Our impairment test in 2018 indicated that the fair value of our wireless licenses significantly exceeded their carrying value and, therefore, did not result in an impairment.

Under our quantitative assessment, we estimated the fair value of our wireless licenses using the Greenfield approach. The Greenfield approach is an income-based valuation approach that values the wireless licenses by calculating the cash flow generating potential of a hypothetical start-up company that goes into business with no assets except the wireless licenses to be valued. A discounted cash flow analysis is used to estimate what a marketplace participant would be willing to pay to purchase the aggregated wireless licenses as of the valuation date. As a result, we

were required to make significant estimates about future cash flows specifically associated with our wireless licenses, an appropriate discount rate based on the risk associated with those estimated cash flows and assumed terminal value and growth rates. We considered current and expected future economic conditions, current and expected availability of wireless network technology and infrastructure and related equipment and the costs thereof as well as other relevant factors in estimating future cash flows. The discount rate represented our estimate of the weighted-average cost of capital (WACC), or expected return, that a marketplace participant would have required as of the valuation date. We developed the discount rate based on our consideration of the cost of debt and equity of a group of guideline companies as of the valuation date. Accordingly, our discount rate incorporated our estimate of the expected return a marketplace participant would have required as of the valuation date, including the risk premium associated with the current and expected economic conditions as of the valuation date. The terminal value growth rate represented our estimate of the marketplace's long-term growth rate.

### **Goodwill**

In November 2018, we announced a strategic reorganization of our business. The Company began reporting externally under the new structure as of April 1, 2019 which resulted in certain changes to our operating segments and reporting units. Upon the date of reorganization, the goodwill of our historical Wireless reporting unit, historical Wireline reporting unit and historical Verizon Connect reporting unit were reallocated to our new Consumer and Business reporting units using a relative fair value approach. At December 31, 2019, the balance of our goodwill was approximately \$24.4 billion, of which \$17.1 billion was in our Consumer reporting unit and \$7.3 billion was in our Business reporting unit. To determine if goodwill is potentially impaired, we have the option to perform a qualitative assessment to determine whether it is more likely than not that the fair value of a reporting unit is less than its carrying value. If we elect not to conduct the qualitative assessment or if indications of a potential impairment exist, the determination of whether an impairment has occurred requires the determination of the fair value of each the reporting unit being assessed.

Under the qualitative assessment, we consider several qualitative factors, including the business enterprise value of the reporting unit from the last quantitative test and the excess of fair value over carrying value from this test, macroeconomic conditions (including changes in interest rates and discount rates), industry and market considerations (including industry revenue and EBITDA margin projections), the recent and projected financial performance of the reporting unit, as well as other factors.

Under our quantitative assessment, the fair value of the reporting unit is calculated using a market approach and a discounted cash flow method. The market approach includes the use of comparative multiples to corroborate discounted cash flow results. The discounted cash flow method is based on the present value of two components-projected cash flows and a terminal value. The terminal value represents the expected normalized future cash flows of the reporting unit beyond the cash flows from the discrete projection period. The fair value of the reporting unit is calculated based on the sum of the present value of the cash flows from the discrete period and the present value of the terminal value. The discount rate represented our estimate of the WACC, or expected return, that a marketplace participant would have required as of the valuation date. The application of our goodwill impairment test required key assumptions underlying our valuation model. The discounted cash flow analysis factored in assumptions on discount rates and terminal growth rates to reflect risk profiles of key strategic revenue and cost initiatives, as well as revenue and EBITDA growth relative to history and market trends and expectations. The market multiples approach incorporated significant judgment involved in the selection comparable public company multiples and benchmarks. The selection of companies was influenced by differences in growth and profitability, and volatility in market prices of peer companies. These valuation inputs are inherently uncertain, and an adverse change in one or a combination of these inputs could trigger a goodwill impairment loss in the future.

A projected sustained decline in a reporting unit's revenues and earnings could have a significant negative impact on its fair value and may result in impairment charges. Such a decline could be driven by, among other things: (1) further anticipated decreases in service pricing, sales volumes and long-term growth rate as a result of competitive pressures or other factors; or (2) the inability to achieve or delays in achieving the goals in strategic initiatives. Also, adverse changes to macroeconomic factors, such as increases to long-term interest rates, would also negatively impact the fair value of the reporting unit.

We performed impairment assessments of the impacted reporting units, specifically our historical Wireless, historical Wireline and historical Connect reporting units on March 31, 2019, immediately before our strategic reorganization became effective. Our impairment assessments indicated that the fair value for each of our historical Wireless, historical Wireline and historical Connect reporting units exceeded their respective carrying values, and therefore did not result in a goodwill impairment. We then performed quantitative assessments of our Consumer and Business reporting units on April 1, 2019, immediately following our strategic reorganization. Our impairment assessments indicated that the fair value for each of our Consumer and Business reporting units exceeded their respective carrying values and therefore, did not result in a goodwill impairment. Our Media reporting unit was not impacted by the strategic reorganization and there was no indicator of impairment as of the reorganization date.

We performed qualitative impairment assessments for our Consumer and Business reporting units during the fourth quarter of 2019. Our qualitative assessments indicated that it was more likely than not that the fair values for our Consumer and Business reporting units exceeded their respective carrying values and, therefore, did not result in an impairment. We performed quantitative impairment assessments for our Media reporting unit in 2019 and 2018. For details on our Media reporting unit, refer to the discussion below.

Our Media business, Verizon Media, experienced increased competitive and market pressures throughout 2018 that resulted in lower than expected revenues and earnings. These pressures were expected to continue and have resulted in a loss of market positioning to our competitors in the digital advertising business. Our Media business also achieved lower than expected benefits from the integration of the Yahoo Inc. and AOL Inc. (AOL) businesses.

As of August 2018, Hans Vestberg became Chief Executive Officer of Verizon, and as of October 2018, K. Guru Gowrappan was appointed Chief Executive Officer of our Media business. In connection with Verizon's annual budget process during the fourth quarter of 2019 and 2018, the leadership at both Verizon Media and Verizon completed a comprehensive five-year strategic planning review of Verizon Media's business prospects resulting in unfavorable adjustments to Verizon Media's financial projections. These revised projections were used as a key input into Verizon Media's annual goodwill impairment tests performed in the fourth quarter of 2019 and 2018.

During the fourth quarter of 2019 and 2018, consistent with our accounting policy, we applied a combination of a market approach and a discounted cash flow method reflecting current assumptions and inputs, including our revised projections, discount rate and expected growth rates, which resulted in the determination that the fair value of the Media reporting unit was less than its carrying amount. As a result, we recorded a non-cash goodwill impairment charge of approximately \$186 million (\$176 million after-tax) in the fourth quarter of 2019 and a charge of \$4.6 billion (\$4.5 billion after-tax) in the fourth quarter of 2018 in our consolidated statements of income. The goodwill balance of the Media reporting unit has been fully written off as a result of these impairment charges.

We performed a quantitative impairment assessment for all of the other reporting units in 2018. Our impairment tests indicated that the fair value for each of our historical Wireless, historical Wireline and historical Connect reporting units exceeded their respective carrying value and, therefore, did not result in an impairment.

### Pension and Other Postretirement Benefit Plans

We maintain benefit plans for most of our employees, including, for certain employees, pension and other postretirement benefit plans. At December 31, 2019, in the aggregate, pension plan benefit obligations exceeded the fair value of pension plan assets, which will result in future pension plan expense. Other postretirement benefit plans have larger benefit obligations than plan assets, resulting in expense. Significant benefit plan assumptions, including the discount rate used, the long-term rate of return on plan assets, the determination of the substantive plan and health care trend rates are periodically updated and impact the amount of benefit plan income, expense, assets and obligations. Changes to one or more of these assumptions could significantly impact our accounting for pension and other postretirement benefits. A sensitivity analysis of the impact of changes in these assumptions on the benefit obligations and expense (income) recorded, as well as on the funded status due to an increase or a decrease in the actual versus expected return on plan assets as of December 31, 2019 and for the year then ended pertaining to Verizon's pension and postretirement benefit plans, is provided in the table below.

(dollars in millions)	Percentage point change	Increase/(decrease) at December 31, 2019*
Pension plans discount rate	+0.50 \$	(1,137)
	-0.50	1,266
Rate of return on pension plan assets	+1.00	(167)
	-1.00	167
Postretirement plans discount rate	+0.50	(858)
	-0.50	948
Rate of return on postretirement plan assets	+1.00	(9)
	-1.00	9
Health care trend rates	+1.00	626
	-1.00	(696)

\* In determining its pension and other postretirement obligation, the Company used a weighted-average discount rate of 3.3%. The rate was selected to approximate the composite interest rates available on a selection of high-quality bonds available in the market at December 31, 2019. The bonds selected had maturities that coincided with the time periods during which benefits payments are expected to occur, were non-callable and available in sufficient quantities to ensure marketability (at least \$300 million par outstanding).

The annual measurement date for both our pension and other postretirement benefits is December 31. We use the full yield curve approach to estimate the interest cost component of net periodic benefit cost for pension and other postretirement benefits. The full yield curve approach refines our estimate of interest cost by applying the individual spot rates from a yield curve composed of the rates of return on several hundred high-quality fixed income corporate bonds available at the measurement date. These individual spot rates align with the timing of each future cash outflow for benefit payments and therefore provide a more precise estimate of interest cost.

### Income Taxes

Our current and deferred income taxes and associated valuation allowances are impacted by events and transactions arising in the normal course of business as well as in connection with the adoption of new accounting standards, changes in tax laws and rates, acquisitions and dispositions of businesses and non-recurring items. As a global commercial enterprise, our income tax rate and the classification of income taxes can be affected by many factors, including estimates of the timing and realization of deferred income tax assets and the timing and amount of income tax payments. We account for tax benefits taken or expected to be taken in our tax returns in accordance with the accounting standard relating to the uncertainty in income taxes, which requires the use of a two-step approach for recognizing and measuring tax benefits taken or expected to be taken in a tax return. We review and adjust our liability for unrecognized tax benefits based on our best judgment given the facts, circumstances and information available at each reporting date. To the extent that the final outcome of these tax positions is different than the amounts recorded, such differences may impact income tax expense and actual tax payments. We recognize any interest and penalties accrued related to unrecognized tax benefits in income tax expense. Actual tax payments may materially differ from estimated liabilities as a result of changes in tax laws as well.



as unanticipated transactions impacting related income tax balances. See Note 12 to the consolidated financial statements for additional information.

### **Property, Plant and Equipment**

Our Property, plant and equipment balance represents a significant component of our consolidated assets. We record Property, plant and equipment at cost. We depreciate Property, plant and equipment on a straight-line basis over the estimated useful life of the assets. We expect that a one year increase in estimated useful lives of our Property, plant and equipment would result in a decrease to our 2019 depreciation expense of \$2.7 billion and that a one year decrease would result in an increase of approximately \$4.7 billion in our 2019 depreciation expense.

### **Accounts Receivable**

We maintain allowances for uncollectible accounts receivable, including our direct-channel device payment plan agreement receivables, for estimated losses resulting from the failure or inability of our customers to make required payments. Indirect-channel device payment loans are considered financial instruments and are initially recorded at fair value net of imputed interest, and credit losses are recorded as incurred. However, loan balances are assessed quarterly for impairment and an allowance is recorded if the loan is considered impaired. Our allowance for uncollectible accounts receivable is based on management's assessment of the collectability of specific customer accounts and includes consideration of the credit worthiness and financial condition of those customers. We record an allowance to reduce the receivables to the amount that is reasonably believed to be collectible. We also record an allowance for all other receivables based on multiple factors including historical experience with bad debts, the general economic environment and the aging of such receivables. Similar to traditional service revenue, we record direct device payment plan agreement bad debt expense based on an estimate of the percentage of equipment revenue that will not be collected. This estimate is based on a number of factors including historical write-off experience, credit quality of the customer base and other factors such as macroeconomic conditions. If there is a deterioration of our customers' financial condition or if future actual default rates on receivables in general differ from those currently anticipated, we may have to adjust our allowance for doubtful accounts, which would affect earnings in the period the adjustments are made.

### **Recently Issued Accounting Standards**

See Note 1 to the consolidated financial statements for a discussion of recently issued accounting standard updates not yet adopted as of December 31, 2019.

## **Acquisitions and Divestitures**

### **Acquisition of AOL Inc.**

In May 2015, we entered into an Agreement and Plan of Merger with AOL Inc. pursuant to which we commenced a tender offer to acquire all of the outstanding shares of common stock of AOL at a price of \$50.00 per share, net to the seller in cash, without interest and less any applicable withholding taxes.

On June 23, 2015, we completed the tender offer and merger, and AOL became a wholly-owned subsidiary of Verizon. The aggregate cash consideration paid by Verizon at the closing of these transactions was approximately \$3.8 billion. Holders of approximately 6.6 million shares exercised appraisal rights under Delaware law. In September 2018, we obtained court approval to settle this matter for total cash consideration of \$219 million, of which an insignificant amount relates to interest, resulting in an insignificant gain. We paid the cash consideration in October 2018.

### **XO Holdings**

In February 2016, we entered into a purchase agreement to acquire XO Holdings' wireline business (XO), which owned and operated one of the largest fiber-based IP and Ethernet networks in the U.S. Concurrently, we entered into a separate agreement to utilize certain wireless spectrum from a wholly-owned subsidiary of XO Holdings, NextLink, that held XO's millimeter-wave wireless spectrum. The agreement included an option, subject to certain conditions, to acquire NextLink. In February 2017, we completed our acquisition of XO for total cash consideration of approximately \$1.5 billion, of which \$100 million was paid in 2015, and we prepaid \$320 million in connection with the NextLink option which represented the fair value of the option.

In April 2017, we exercised our option to buy NextLink for approximately \$493 million, subject to certain adjustments, of which \$320 million was prepaid in the first quarter of 2017. The transaction closed in January 2018. The acquisition of NextLink was accounted for as an asset acquisition, as substantially all of the value related to the acquired spectrum. Upon closing, we recorded approximately \$657 million of wireless licenses, \$110 million of a deferred tax liability and \$58 million of other liabilities. See Note 3 to the consolidated financial statements for additional information.

### **Straight Path**

In May 2017, we entered into a purchase agreement to acquire Straight Path, a holder of millimeter wave spectrum configured for 5G wireless services, for total consideration reflecting an enterprise value of approximately \$3.1 billion. Under the terms of the purchase agreement, we agreed to pay: (1) Straight Path shareholders \$184.00 per share, payable in Verizon shares; and (2) certain transaction costs payable in cash of approximately \$736 million, consisting primarily of a fee to be paid to the FCC. The transaction closed in February 2018 at which time we issued

approximately 49 million shares of Verizon common stock, valued at approximately \$2.4 billion, and paid the associated cash consideration. See Note 3 to the consolidated financial statements for additional information.

### **Spectrum License Transactions**

From time to time, we enter into agreements to buy, sell or exchange spectrum licenses. We believe these spectrum license transactions have allowed us to continue to enhance the reliability of our wireless network while also resulting in a more efficient use of spectrum. See Note 3 to the consolidated financial statements for additional information regarding our spectrum license transactions.

### **Other**

From time to time, we enter into strategic agreements to acquire various other businesses and investments. See Note 3 to the consolidated financial statements for additional information.

### ***Cautionary Statement Concerning Forward-Looking Statements***

In this report we have made forward-looking statements. These statements are based on our estimates and assumptions and are subject to risks and uncertainties. Forward-looking statements include the information concerning our possible or assumed future results of operations. Forward-looking statements also include those preceded or followed by the words "anticipates," "believes," "estimates," "expects," "hopes" or similar expressions. For those statements, we claim the protection of the safe harbor for forward-looking statements contained in the Private Securities Litigation Reform Act of 1995. We undertake no obligation to revise or publicly release the results of any revision to these forward-looking statements, except as required by law. Given these risks and uncertainties, readers are cautioned not to place undue reliance on such forward-looking statements.

The following important factors, along with those discussed elsewhere in this report and in other filings with the SEC, could affect future results and could cause those results to differ materially from those expressed in the forward-looking statements:

- cyber attacks impacting our networks or systems and any resulting financial or reputational impact;
- natural disasters, terrorist attacks or acts of war or significant litigation and any resulting financial or reputational impact;
- disruption of our key suppliers' or vendors' provisioning of products or services;
- material adverse changes in labor matters and any resulting financial or operational impact;
- the effects of competition in the markets in which we operate;
- failure to take advantage of developments in technology and address changes in consumer demand;
- performance issues or delays in the deployment of our 5G network resulting in significant costs or a reduction in the anticipated benefits of the enhancement to our networks;
- the inability to implement our business strategy;
- adverse conditions in the U.S. and international economies;
- changes in the regulatory environment in which we operate, including any increase in restrictions on our ability to operate our networks;
- our high level of indebtedness;
- an adverse change in the ratings afforded our debt securities by nationally accredited ratings organizations or adverse conditions in the credit markets affecting the cost, including interest rates, and/or availability of further financing;
- significant increases in benefit plan costs or lower investment returns on plan assets;
- changes in tax laws or treaties, or in their interpretation; and
- changes in accounting assumptions that regulatory agencies, including the SEC, may require or that result from changes in the accounting rules or their application, which could result in an impact on earnings.

## Report of Management on Internal Control Over Financial Reporting

We, the management of Verizon Communications Inc., are responsible for establishing and maintaining adequate internal control over financial reporting of the company. Management has evaluated internal control over financial reporting of the company using the criteria for effective internal control established in Internal Control–Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission in 2013.

Management has assessed the effectiveness of the company's internal control over financial reporting as of December 31, 2019. Based on this assessment, we believe that the internal control over financial reporting of the company is effective as of December 31, 2019. In connection with this assessment, there were no material weaknesses in the company's internal control over financial reporting identified by management.

The company's financial statements included in this Annual Report have been audited by Ernst & Young LLP, independent registered public accounting firm. Ernst & Young LLP has also provided an attestation report on the company's internal control over financial reporting.

/s/ **Hans E. Vestberg**

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**Hans E. Vestberg**

Chairman and Chief Executive Officer

/s/ **Matthew D. Ellis**

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**Matthew D. Ellis**

Executive Vice President and Chief Financial Officer

/s/ **Anthony T. Skiadas**

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**Anthony T. Skiadas**

Senior Vice President and Controller

## Report of Independent Registered Public Accounting Firm

To the Shareholders and the Board of Directors of Verizon Communications Inc.:

### Opinion on Internal Control Over Financial Reporting

We have audited Verizon Communications Inc. and subsidiaries' (Verizon) internal control over financial reporting as of December 31, 2019, based on criteria established in Internal Control-Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission (2013 framework) (the COSO criteria). In our opinion, Verizon maintained, in all material respects, effective internal control over financial reporting as of December 31, 2019, based on the COSO criteria.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the consolidated balance sheets of Verizon as of December 31, 2019 and 2018, the related consolidated statements of income, comprehensive income, cash flows, and changes in equity for each of the three years in the period ended December 31, 2019, and the related notes and our report dated February 21, 2020 expressed an unqualified opinion thereon.

### Basis for Opinion

Verizon's management is responsible for maintaining effective internal control over financial reporting and for its assessment of the effectiveness of internal control over financial reporting included in the accompanying Report of Management on Internal Control Over Financial Reporting. Our responsibility is to express an opinion on Verizon's internal control over financial reporting based on our audit. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to Verizon in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audit in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether effective internal control over financial reporting was maintained in all material respects.

Our audit included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, testing and evaluating the design and operating effectiveness of internal control based on the assessed risk, and performing such other procedures as we considered necessary in the circumstances. We believe that our audit provides a reasonable basis for our opinion.

### Definition and Limitations of Internal Control Over Financial Reporting

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

/s/ Ernst & Young LLP

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Ernst & Young LLP

New York, New York

February 21, 2020

## Report of Independent Registered Public Accounting Firm

To the Shareholders and the Board of Directors of Verizon Communications Inc.:

### Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Verizon Communications Inc. and subsidiaries (Verizon) as of December 31, 2019 and 2018, the related consolidated statements of income, comprehensive income, cash flows, and changes in equity for each of the three years in the period ended December 31, 2019, and the related notes (collectively referred to as the "consolidated financial statements"). In our opinion, the consolidated financial statements present fairly, in all material respects, the financial position of Verizon at December 31, 2019 and 2018, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2019, in conformity with U.S. generally accepted accounting principles.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), Verizon's internal control over financial reporting as of December 31, 2019, based on criteria established in Internal Control-Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission (2013 framework) and our report dated February 21, 2020 expressed an unqualified opinion thereon.

### Adoption of New Accounting Standards

#### ASU No. 2016-02

As discussed in Note 1 to the consolidated financial statements, effective January 1, 2019, Verizon changed its method of accounting for leases due to the adoption of Accounting Standards Update (ASU) No. 2016-02, Leases (Topic 842), and the related amendments, using the modified retrospective method.

#### ASU No. 2014-09

As discussed in Note 1 to the consolidated financial statements, effective January 1, 2018 Verizon changed its method for recognizing revenue as a result of the adoption of ASU No. 2014-09, Revenue from Contracts with Customers (Topic 606), and the amendments in ASUs 2015-14, 2016-08, 2016-10 and 2016-12 using the modified retrospective method.

### Basis for Opinion

These financial statements are the responsibility of Verizon's management. Our responsibility is to express an opinion on Verizon's financial statements based on our audits. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to Verizon in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

### Critical Audit Matters

The critical audit matters communicated below are matters arising from the current period audit of the financial statements that were communicated or required to be communicated to the audit committee and that: (1) relate to accounts or disclosures that are material to the financial statements and (2) involved our especially challenging, subjective or complex judgments. The communication of critical audit matters does not alter in any way our opinion on the consolidated financial statements, taken as a whole, and we are not, by communicating the critical audit matters below, providing separate opinions on the critical audit matters or on the accounts or disclosures to which they relate.

### ***Impairment Evaluation for Wireline Goodwill***

#### ***Description of the Matter***

At March 31, 2019, the Company's goodwill related to its historical Wireline reporting unit was \$3.9 billion and represented 1.4% of total assets. As discussed in Notes 1 and 4 of the consolidated financial statements, goodwill is not amortized but rather is tested for impairment at the reporting unit level at least annually, or more frequently if impairment indicators are present. The impairment test compares the fair value of the reporting unit (calculated using a combination of a market approach and a discounted cash flow method) to its carrying amount. Effective April 1, 2019, the Company transitioned to its new segment reporting structure, which resulted in certain changes to its operating segments and reporting units. On March 31, 2019 the Company performed an impairment assessment of the impacted reporting units, including the Wireline reporting unit, immediately before the segment reorganization became effective.

Auditing management's goodwill impairment test was complex and highly judgmental due to the inherent subjectivity of developing an estimate of the fair value of the reporting unit, which is based on assumptions about future conditions, transactions, or events whose outcome is uncertain and will therefore be subject to change over time. In particular, the fair value estimate was sensitive to significant assumptions such as the weighted average cost of capital, revenue growth rate and operating margin, which are affected by expected future market or economic conditions.

#### ***How We Addressed the Matter in Our Audit***

We obtained an understanding, evaluated the design and tested the operating effectiveness of controls over the Company's goodwill impairment review process. For example, we tested controls over the Company's development of prospective financial information and management's review of other key assumptions.

To test the estimated fair value of the Company's Wireline reporting unit prior to segment reorganization, our audit procedures included, among others, assessing the suitability and application of the valuation methodologies selected and evaluating the significant assumptions discussed above and underlying data used by the Company in its analysis. We compared the significant assumptions used by management to current industry and economic trends, changes in the Company's business model, customer base or product mix and other relevant factors. We performed sensitivity analyses of significant assumptions to determine what changes in assumptions are particularly sensitive when assessing the likelihood of impairment, or when calculating the amount of an impairment. In addition, we involved a valuation specialist to assist in the evaluation of the assumptions and other relevant information that are most significant to the fair value estimate. We also assessed the historical accuracy of management's forecasts of financial results used in developing prior fair value estimates to assist in evaluating the reliability of the current forecasts.

### ***Valuation of Employee Benefit Obligations***

#### ***Description of the Matter***

The Company sponsors several pension plans and other post-employment benefit plans. At December 31, 2019, the Company's aggregate defined benefit pension obligation was \$21.2 billion and exceeded the fair value of pension plan assets of \$19.4 billion, resulting in an unfunded defined benefit pension obligation of \$1.8 billion. Also, at December 31, 2019, the other postretirement benefits obligation was approximately \$15.7 billion. As explained in Note 11 of the consolidated financial statements, the Company updates the estimates used to measure employee benefit obligations and plan assets in the fourth quarter and upon a remeasurement event to reflect the actual return on plan assets and updated actuarial assumptions.

Auditing the employee benefit obligations was complex due to the highly judgmental nature of the actuarial assumptions (e.g., discount rate, health care cost trends, per capita claims cost trends and mortality rates) used in the measurement process. These assumptions had a significant effect on the projected benefit obligation.

#### ***How We Addressed the Matter in Our Audit***

We obtained an understanding, evaluated the design and tested the operating effectiveness of controls over the employee benefits obligation valuation process. For example, we tested controls over management's review of the employee benefit obligation calculations, the significant actuarial assumptions and the data inputs provided to the actuary.

To test the employee benefit obligations, our audit procedures included, among others, evaluating the methodologies used, the significant actuarial assumptions discussed above and the underlying data used by the Company. We compared the actuarial assumptions used by management to historical trends, current economic factors and evaluated the change in the employee benefit obligations from prior year due to the change in service cost, interest cost, actuarial gains and losses, benefit payments, contributions and other activities. In addition, we involved an actuarial specialist to assist in evaluating management's methodology for determining the discount rate that reflects the maturity and duration of the benefit payments and is used to measure the employee benefit obligations. As part of this assessment, we compared the projected cash flows to prior year projections and compared the current year benefits paid to the prior year projected cash flows. To evaluate the health care cost trends, per capita claims cost trends and the mortality rates, we involved an actuarial specialist to assist in evaluating the assumptions and assessed whether the information is consistent with publicly available information, and whether any market data adjusted for entity-specific adjustments were applied. We also tested the completeness and accuracy of the underlying data, including the participant data provided to management's actuarial specialists.

### ***Income Taxes - Benefit from the disposition of stock of a foreign affiliate***

#### ***Description of the Matter***

As described in Note 12 to the consolidated financial statements, during the fourth quarter of 2019 the Company sold a minority interest in a foreign affiliate to unrelated parties resulting in the recognition of a tax benefit of approximately \$2.2 billion.

Auditing the recognition and measurement of this income tax benefit required significant auditor judgment because the determination of whether the tax positions' technical merits are more likely than not to be sustained in an audit by a taxing authority is based on the application and interpretation of the relevant tax laws to the facts of the specific transaction.

*How We Addressed the Matter in Our Audit* We obtained an understanding, evaluated the design and tested the operating effectiveness of controls over the Company’s income tax processes. For example, we tested controls over management’s review of the income tax technical merits of the transaction and the related recognition and measurement of the income tax benefit.

To test the income tax benefit related to this transaction, our audit procedures included, among others, assessing the suitability and application of tax laws and legal rulings and evaluating the related conclusions. In addition, we involved our tax professionals to assist in the review and evaluation of management’s third-party tax opinions and memoranda and other relevant agreements. We tested the completeness and accuracy of the data and calculations used to determine the amount of the income tax benefit recognized.

/s/ **Ernst & Young LLP**

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**Ernst & Young LLP**  
We have served as Verizon's auditor since 2000.  
New York, New York

February 21, 2020

# Consolidated Statements of Income Verizon Communications Inc. and Subsidiaries

Years Ended December 31,	(dollars in millions, except per share amounts)		
	2019	2018	2017
<b>Operating Revenues</b>			
Service revenues and other	\$ 110,305	\$ 108,605	\$ 107,145
Wireless equipment revenues	21,563	22,258	18,889
<b>Total Operating Revenues</b>	<b>131,868</b>	<b>130,863</b>	<b>126,034</b>
<b>Operating Expenses</b>			
Cost of services (exclusive of items shown below)	31,772	32,185	30,916
Cost of wireless equipment	22,954	23,323	22,147
Selling, general and administrative expense (including net gain/(loss) on sale of divested businesses of \$(94), \$0 and \$1,774, respectively)	29,896	31,083	28,592
Depreciation and amortization expense	16,682	17,403	16,954
Media goodwill impairment	186	4,591	—
<b>Total Operating Expenses</b>	<b>101,490</b>	<b>108,585</b>	<b>98,609</b>
<b>Operating Income</b>	<b>30,378</b>	<b>22,278</b>	<b>27,425</b>
Equity in losses of unconsolidated businesses	(15)	(186)	(77)
Other income (expense), net	(2,900)	2,364	(2,021)
Interest expense	(4,730)	(4,833)	(4,733)
<b>Income Before (Provision) Benefit For Income Taxes</b>	<b>22,733</b>	<b>19,623</b>	<b>20,594</b>
(Provision) benefit for income taxes	(2,945)	(3,584)	9,956
<b>Net Income</b>	<b>\$ 19,788</b>	<b>\$ 16,039</b>	<b>\$ 30,550</b>
<b>Net income attributable to noncontrolling interests</b>	<b>\$ 523</b>	<b>\$ 511</b>	<b>\$ 449</b>
<b>Net income attributable to Verizon</b>	<b>19,265</b>	<b>15,528</b>	<b>30,101</b>
<b>Net Income</b>	<b>\$ 19,788</b>	<b>\$ 16,039</b>	<b>\$ 30,550</b>
<b>Basic Earnings Per Common Share</b>			
Net income attributable to Verizon	\$ 4.66	\$ 3.76	\$ 7.37
Weighted-average shares outstanding (in millions)	4,138	4,128	4,084
<b>Diluted Earnings Per Common Share</b>			
Net income attributable to Verizon	\$ 4.65	\$ 3.76	\$ 7.36
Weighted-average shares outstanding (in millions)	4,140	4,132	4,089

See Notes to Consolidated Financial Statements



# Consolidated Statements of Comprehensive Income Verizon Communications Inc. and Subsidiaries

	(dollars in millions)		
Years Ended December 31,	2019	2018	2017
<b>Net Income</b>	<b>\$ 19,788</b>	<b>\$ 16,039</b>	<b>\$ 30,550</b>
<b>Other Comprehensive Loss, Net of Tax (Expense) Benefit</b>			
Foreign currency translation adjustments, net of tax of \$(21), \$(11) and \$30	16	(117)	245
Unrealized gain (loss) on cash flow hedges, net of tax of \$265, \$(19) and \$20	(736)	55	(31)
Unrealized gain (loss) on marketable securities, net of tax of \$(2), \$0 and \$10	7	1	(14)
Defined benefit pension and postretirement plans, net of tax of \$219, \$284 and \$144	(659)	(858)	(214)
Other comprehensive loss attributable to Verizon	(1,372)	(919)	(14)
<b>Total Comprehensive Income</b>	<b>\$ 18,416</b>	<b>\$ 15,120</b>	<b>\$ 30,536</b>
Comprehensive income attributable to noncontrolling interests	\$ 523	\$ 511	\$ 449
Comprehensive income attributable to Verizon	17,893	14,609	30,087
<b>Total Comprehensive Income</b>	<b>\$ 18,416</b>	<b>\$ 15,120</b>	<b>\$ 30,536</b>

See Notes to Consolidated Financial Statements

# Consolidated Balance Sheets Verizon Communications Inc. and Subsidiaries

(dollars in millions, except per share amounts)

At December 31,

2019

2018

## Assets

### Current assets

Cash and cash equivalents	\$	2,594	\$	2,745
Accounts receivable, net of allowances of \$733 and \$765		25,429		25,102
Inventories		1,422		1,336
Prepaid expenses and other		8,028		5,453
<b>Total current assets</b>		<b>37,473</b>		<b>34,636</b>

Property, plant and equipment		265,734		252,835
Less accumulated depreciation		173,819		163,549
<b>Property, plant and equipment, net</b>		<b>91,915</b>		<b>89,286</b>

Investments in unconsolidated businesses		558		671
Wireless licenses		95,059		94,130
Goodwill		24,389		24,614
Other intangible assets, net		9,498		9,775
Operating lease right-of-use assets		22,694		—
Other assets		10,141		11,717
<b>Total assets</b>	<b>\$</b>	<b>291,727</b>	<b>\$</b>	<b>264,829</b>

## Liabilities and Equity

### Current liabilities

Debt maturing within one year	\$	10,777	\$	7,190
Accounts payable and accrued liabilities		21,806		22,501
Current operating lease liabilities		3,261		—
Other current liabilities		9,024		8,239
<b>Total current liabilities</b>		<b>44,868</b>		<b>37,930</b>

Long-term debt		100,712		105,873
Employee benefit obligations		17,952		18,599
Deferred income taxes		34,703		33,795
Non-current operating lease liabilities		18,393		—
Other liabilities		12,264		13,922
<b>Total long-term liabilities</b>		<b>184,024</b>		<b>172,189</b>

### Commitments and Contingencies (Note 16)

### Equity

Series preferred stock (\$0.10 par value; 250,000,000 shares authorized; none issued)		—		—
Common stock (\$0.10 par value; 6,250,000,000 shares authorized in each period; 4,291,433,646 issued in each period)		429		429
Additional paid in capital		13,419		13,437
Retained earnings		53,147		43,542
Accumulated other comprehensive income		998		2,370
Common stock in treasury, at cost (155,605,527 and 159,400,267 shares outstanding)		(6,820)		(6,986)
Deferred compensation – employee stock ownership plans and other		222		353
Noncontrolling interests		1,440		1,565
<b>Total equity</b>		<b>62,835</b>		<b>54,710</b>
<b>Total liabilities and equity</b>	<b>\$</b>	<b>291,727</b>	<b>\$</b>	<b>264,829</b>

See Notes to Consolidated Financial Statements

# Consolidated Statements of Cash Flows Verizon Communications Inc. and Subsidiaries

(dollars in millions)

Years Ended December 31,	2019	2018	2017
<b>Cash Flows from Operating Activities</b>			
Net Income	\$ 19,788	\$ 16,039	\$ 30,550
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation and amortization expense	16,682	17,403	16,954
Employee retirement benefits	(284)	(2,657)	440
Deferred income taxes	1,232	389	(14,463)
Provision for uncollectible accounts	1,588	980	1,167
Equity in losses of unconsolidated businesses, net of dividends received	74	231	117
Net loss (gain) on sale of divested businesses	94	—	(1,774)
Media goodwill impairment	186	4,591	—
Changes in current assets and liabilities, net of effects from acquisition/disposition of businesses:			
Accounts receivable	(1,471)	(2,667)	(5,674)
Inventories	(76)	(324)	168
Prepaid expenses and other	(2,807)	37	27
Accounts payable and accrued liabilities and Other current liabilities	(2,359)	1,777	(459)
Discretionary employee benefits contributions	(300)	(1,679)	(3,411)
Other, net	3,399	219	676
Net cash provided by operating activities	35,746	34,339	24,318
<b>Cash Flows from Investing Activities</b>			
Capital expenditures (including capitalized software)	(17,939)	(16,658)	(17,247)
Acquisitions of businesses, net of cash acquired	(29)	(230)	(5,880)
Acquisitions of wireless licenses	(898)	(1,429)	(583)
Proceeds from dispositions of businesses	28	—	3,614
Other, net	1,257	383	1,640
Net cash used in investing activities	(17,581)	(17,934)	(18,456)
<b>Cash Flows from Financing Activities</b>			
Proceeds from long-term borrowings	10,079	5,967	27,707
Proceeds from asset-backed long-term borrowings	8,576	4,810	4,290
Repayments of long-term borrowings and finance lease obligations	(17,584)	(10,923)	(23,837)
Repayments of asset-backed long-term borrowings	(6,302)	(3,635)	(400)
Dividends paid	(10,016)	(9,772)	(9,472)
Other, net	(2,917)	(1,824)	(4,439)
Net cash used in financing activities	(18,164)	(15,377)	(6,151)
Increase (decrease) in cash, cash equivalents and restricted cash	1	1,028	(289)
Cash, cash equivalents and restricted cash, beginning of period	3,916	2,888	3,177
Cash, cash equivalents and restricted cash, end of period (Note 1)	\$ 3,917	\$ 3,916	\$ 2,888

See Notes to Consolidated Financial Statements

# Consolidated Statements of Changes in Equity Verizon Communications Inc. and Subsidiaries

(dollars in millions, except per share amounts, and shares in thousands)

Years Ended December 31,	2019		2018		2017	
	Shares	Amount	Shares	Amount	Shares	Amount
<b>Common Stock</b>						
Balance at beginning of year	4,291,434	\$ 429	4,242,374	\$ 424	4,242,374	\$ 424
Common shares issued	—	—	49,060	5	—	—
Balance at end of year	4,291,434	429	4,291,434	429	4,242,374	424
<b>Additional Paid In Capital</b>						
Balance at beginning of year		13,437		11,101		11,182
Other		(18)		2,336		(81)
Balance at end of year		13,419		13,437		11,101
<b>Retained Earnings</b>						
Balance at beginning of year		43,542		35,635		15,059
Opening balance sheet adjustment (Note 1)		410		2,232		—
Adjusted opening balance		43,952		37,867		15,059
Net income attributable to Verizon		19,265		15,528		30,101
Dividends declared (\$2.435, \$2.385, \$2.335 per share)		(10,070)		(9,853)		(9,525)
Balance at end of year		53,147		43,542		35,635
<b>Accumulated Other Comprehensive Income</b>						
Balance at beginning of year attributable to Verizon		2,370		2,659		2,673
Opening balance sheet adjustment (Note 1)		—		630		—
Adjusted opening balance		2,370		3,289		2,673
Foreign currency translation adjustments		16		(117)		245
Unrealized gain (loss) on cash flow hedges		(736)		55		(31)
Unrealized gain (loss) on marketable securities		7		1		(14)
Defined benefit pension and postretirement plans		(659)		(858)		(214)
Other comprehensive loss		(1,372)		(919)		(14)
Balance at end of year attributable to Verizon		998		2,370		2,659
<b>Treasury Stock</b>						
Balance at beginning of year	(159,400)	(6,986)	(162,898)	(7,139)	(165,690)	(7,263)
Employee plans (Note 14)	3,790	166	3,494	153	2,787	124
Shareholder plans (Note 14)	4	—	4	—	5	—
Balance at end of year	(155,606)	(6,820)	(159,400)	(6,986)	(162,898)	(7,139)
<b>Deferred Compensation-ESOPs and Other</b>						
Balance at beginning of year		353		416		449
Restricted stock equity grant		140		162		157
Amortization		(271)		(225)		(190)
Balance at end of year		222		353		416
<b>Noncontrolling Interests</b>						
Balance at beginning of year		1,565		1,591		1,508
Opening balance sheet adjustment (Note 1)		1		44		—
Adjusted opening balance		1,566		1,635		1,508
Total comprehensive income		523		511		449
Distributions and other		(649)		(581)		(366)
Balance at end of year		1,440		1,565		1,591
<b>Total Equity</b>		\$ 62,835		\$ 54,710		\$ 44,687

See Notes to Consolidated Financial Statements

**Note 1. Description of Business and Summary of Significant Accounting Policies****Description of Business**

Verizon Communications Inc. (Verizon or the Company) is a holding company that, acting through its subsidiaries, is one of the world's leading providers of communications, information and entertainment products and services to consumers, businesses and government entities. With a presence around the world, we offer voice, data and video services and solutions on our networks that are designed to meet customers' demand for mobility, reliable network connectivity, security and control.

In November 2018, we announced a strategic reorganization of our business. Under the new structure, effective April 1, 2019, there are two reportable segments that we operate and manage as strategic business units - Verizon Consumer Group (Consumer) and Verizon Business Group (Business).

Our Consumer segment provides consumer-focused wireless and wireline communications services and products. Our wireless services are provided across one of the most extensive wireless networks in the United States (U.S.) under the Verizon brand and through wholesale and other arrangements. Our wireline services are provided in nine states in the Mid-Atlantic and Northeastern U.S., as well as Washington D.C., over our 100% fiber-optic network under the Fios brand and over a traditional copper-based network to customers who are not served by Fios. Our Consumer segment's wireless and wireline products and services are available to our retail customers, as well as resellers that purchase wireless network access from us on a wholesale basis.

Our Business segment provides wireless and wireline communications services and products, video and data services, corporate networking solutions, security and managed network services, local and long distance voice services and network access to deliver various Internet of Things (IoT) services and products. We provide these products and services to businesses, government customers and wireless and wireline carriers across the U.S. and select products and services to customers around the world.

**Consolidation**

The method of accounting applied to investments, whether consolidated or equity, involves an evaluation of all significant terms of the investments that explicitly grant or suggest evidence of control or influence over the operations of the investee. The consolidated financial statements include our controlled subsidiaries, as well as variable interest entities (VIE) where we are deemed to be the primary beneficiary. For controlled subsidiaries that are not wholly-owned, the noncontrolling interests are included in Net income and Total equity. Investments in businesses that we do not control, but have the ability to exercise significant influence over operating and financial policies, are accounted for using the equity method. Equity method investments are included in Investments in unconsolidated businesses in our consolidated balance sheets. All significant intercompany accounts and transactions have been eliminated.

**Use of Estimates**

We prepare our financial statements using U.S. generally accepted accounting principles (GAAP), which requires management to make estimates and assumptions that affect reported amounts and disclosures. Actual results could differ from those estimates.

Examples of significant estimates include the allowance for doubtful accounts, the recoverability of property, plant and equipment, the incremental borrowing rate for the lease liability, the recoverability of intangible assets and other long-lived assets, fair value measurements, including those related to financial instruments, goodwill, spectrum licenses and intangible assets, unrecognized tax benefits, valuation allowances on tax assets, pension and postretirement benefit obligations, contingencies and the identification and valuation of assets acquired and liabilities assumed in connection with business combinations.

**Revenue Recognition**

We earn revenue from contracts with customers, primarily through the provision of telecommunications and other services and through the sale of wireless equipment. These services include a variety of communication and connectivity services for our Consumer and Business customers including other carriers that use our facilities to provide services to their customers, as well as professional and integrated managed services for our large enterprises and government customers. We account for these revenues under Accounting Standards Update (ASU) 2014-09, "Revenue from Contracts with Customers" (Topic 606), which we adopted on January 1, 2018, using the modified retrospective approach. This standard update, along with related subsequently issued updates, clarifies the principles for recognizing revenue and develops a common revenue standard for GAAP. The standard update also amends current guidance for the recognition of costs to obtain and fulfill contracts with customers such that incremental costs of obtaining and direct costs of fulfilling contracts with customers are deferred and amortized consistent with the transfer of the related good or service.

We also earn revenues that are not accounted for under Topic 606 from leasing arrangements (such as those for towers and equipment), captive reinsurance arrangements primarily related to wireless device insurance and the interest on equipment financed under a device payment plan agreement when sold to the customer by an authorized agent.

## **Nature of Products and Services**

### ***Telecommunications***

#### ***Service***

We offer wireless services through a variety of plans on a postpaid or prepaid basis. For wireless service, we recognize revenue using an output method, either as the service allowance units are used or as time elapses, because it reflects the pattern by which we satisfy our performance obligation through the transfer of service to the customer. Monthly service is generally billed in advance, which results in a contract liability. See Note 2 for additional information. For postpaid plans, where monthly usage exceeds the allowance, the overage usage represents options held by the customer for incremental services and the usage-based fee is recognized when the customer exercises the option (typically on a month-to-month basis).

For our contracts related to wireline communication and connectivity services, in general, fixed monthly fees for service are billed one month in advance, which results in a contract liability, and service revenue is recognized over the enforceable contract term as the service is rendered, as the customer simultaneously receives and consumes the benefits of the services through network access and usage. While substantially all of our wireline service revenue contracts are the result of providing access to our networks, revenue from services that are not fixed in amount and, instead, are based on usage are generally billed in arrears and recognized as the usage occurs.

#### ***Equipment***

We sell wireless devices and accessories under the Verizon brand. Equipment revenue is generally recognized when the products are delivered to and accepted by the customer, as this is when control passes to the customer. In addition to offering the sale of equipment on a standalone basis, we have two primary offerings through which customers pay for a wireless device, in connection with a service contract: fixed-term plans and device payment plans.

Under a fixed-term plan, the customer is sold the wireless device without any upfront charge or at a discounted price in exchange for entering into a fixed-term service contract (typically for a term of 24 months or less).

Under a device payment plan, the customer is sold the wireless device in exchange for a non-interest-bearing installment note, which is repaid by the customer, typically over a 24-month term, and concurrently enters into a month-to-month contract for wireless service. We may offer certain promotions that provide billing credits applied over a specified term, contingent upon the customer maintaining service. The credits are included in the transaction price, which are allocated to the performance obligations based on their relative selling price and are recognized when earned.

A financing component exists in both our fixed-term plans and device payment plans because the timing of the payment for the device, which occurs over the contract term, differs from the satisfaction of the performance obligation, which occurs at contract inception upon transfer of the device to the customer. We periodically assess, at the contract level, the significance of the financing component inherent in our fixed-term and device payment plan receivable based on qualitative and quantitative considerations related to our customer classes. These considerations include assessing the commercial objective of our plans, the term and duration of financing provided, interest rates prevailing in the marketplace, and credit risks of our customer classes, all of which impact our selection of appropriate discount rates. Based on current facts and circumstances, we determined that the financing component in our existing wireless device payments and fixed-term contracts sold through the direct channel is not significant and therefore is not accounted for separately. See Note 8 for additional information on the interest on equipment financed on a device payment plan agreement when sold to the customer by an authorized agent in our indirect channel.

#### ***Wireless Contracts***

For our wireless contracts, total contract revenue, which represents the transaction price for wireless service and wireless equipment, is allocated between service and equipment revenue based on their estimated standalone selling prices. We estimate the standalone selling price of the device or accessory to be its retail price excluding subsidies or conditional purchase discounts. We estimate the standalone selling price of wireless service to be the price that we offer to customers on month-to-month contracts that can be cancelled at any time without penalty (i.e., when there is no fixed-term for service) or when service is procured without the concurrent purchase of a wireless device. In addition, we also assess whether the service term is impacted by certain legally enforceable rights and obligations in our contract with customers, such as penalties that a customer would have to pay to early terminate a fixed-term contract or billing credits that would cease if the month-to-month wireless service is canceled. The assessment of these legally enforceable rights and obligations involves judgment and impacts our determination of the transaction price and related disclosures.

From time to time, we may offer certain promotions that provide our customers on device payment plans with the right to upgrade to a new device after paying a specified portion of their device payment plan agreement amount and trading in their device in good working order. We account for this trade-in right as a guarantee obligation. The full amount of the trade-in right's fair value is recognized as a guarantee liability and results in a reduction to the revenue recognized upon the sale of the device. The guarantee liability was insignificant at December 31, 2019 and 2018. The total transaction price is reduced by the guarantee, which is accounted for outside the scope of Topic 606, and the remaining transaction price is allocated between the performance obligations within the contract.

Our fixed-term plans generally include the sale of a wireless device at subsidized prices. This results in the creation of a contract asset at the time of sale, which represents the recognition of equipment revenue in excess of amounts billed.

For our device payment plans, billing credits are accounted for as consideration payable to a customer and are included in the determination of total transaction price, resulting in a contract liability.

We may provide a right of return on our products and services for a short time period after a sale. These rights are accounted for as variable consideration when determining the transaction price, and accordingly we recognize revenue based on the estimated amount to which we expect to be entitled after considering expected returns. Returns and credits are estimated at contract inception and updated at the end of each reporting period as additional information becomes available. We also may provide credits or incentives on our products and services for contracts with resellers, which are accounted for as variable consideration when estimating the amount of revenue to recognize.

#### *Wireline Contracts*

Total consideration for wireline services that are bundled in a single contract is allocated to each performance obligation based on our standalone selling price for each service. While many contracts include one or more service performance obligations, the revenue recognition pattern is generally not impacted by the allocation since the services are generally satisfied over the same period of time. We estimate the standalone selling price to be the price of the services when sold on a standalone basis without any promotional discount. In addition, we also assess whether the service term is impacted by certain legally enforceable rights and obligations in our contract with customers such as penalties that a customer would have to pay to early terminate a fixed-term contract. The assessment of these legally enforceable rights and obligations involves judgment and impacts our determination of transaction price and related disclosures.

We may provide performance-based credits or incentives on our products and services for contracts with our Business customers, which are accounted for as variable consideration when estimating the transaction price. Credits are estimated at contract inception and are updated at the end of each reporting period as additional information becomes available.

#### *Wireless and Wireline Contracts*

For offers that include third-party providers, we evaluate whether we are acting as the principal or as the agent with respect to the goods or services provided to the customer. This principal-versus-agent assessment involves judgment and focuses on whether the facts and circumstances of the arrangement indicate that the goods or services were controlled by us prior to transferring them to the customer. To evaluate if we have control, we consider various factors including whether we are primarily responsible for fulfillment, bear risk of loss and have discretion over pricing.

#### *Other*

Advertising revenues are generated through display advertising and search advertising. Display advertising revenue is generated by the display of graphical advertisements and other performance-based advertising. Search advertising revenue is generated when a consumer clicks on a text-based advertisement on the search results page. Our Media business, Verizon Media, primarily earns revenue through display advertising on Verizon Media properties, as well as on third-party properties through our advertising platforms, search advertising and subscription arrangements. Revenue for display and search advertising contracts is recognized as ads are delivered, while subscription contracts are recognized over time. We are generally the principal in transactions carried out through our advertising platforms, and therefore report gross revenue based on the amount billed to our customers. The control and transfer of digital advertising inventory occurs in a rapid, real-time environment, where our proprietary technology enables us to identify, enhance, verify and solely control digital advertising inventory that we then sell to our customers. Our control is further supported by us being primarily responsible to our customers for fulfillment and the fact that we can exercise a level of discretion over pricing.

We offer telematics services including smart fleet management and optimization software. Telematics service revenue is generated primarily through subscription contracts. We recognize revenue over time for our subscription contracts.

We report taxes collected from customers on behalf of governmental authorities on revenue-producing transactions on a net basis.

### **Maintenance and Repairs**

We charge the cost of maintenance and repairs, including the cost of replacing minor items not constituting substantial betterments, principally to Cost of services as these costs are incurred.

### **Advertising Costs**

Costs for advertising products and services, as well as other promotional and sponsorship costs, are charged to Selling, general and administrative expense in the periods in which they are incurred. See Note 15 for additional information.

### **Earnings Per Common Share**

Basic earnings per common share are based on the weighted-average number of shares outstanding during the period. Where appropriate, diluted earnings per common share include the dilutive effect of shares issuable under our stock-based compensation plans.

There were a total of approximately 2 million, 4 million and 5 million outstanding dilutive securities, primarily consisting of restricted stock units, included in the computation of diluted earnings per common share for the years ended December 31, 2019, 2018 and 2017, respectively.

## Cash, Cash Equivalents and Restricted Cash

We consider all highly liquid investments with an original maturity of 90 days or less when purchased to be cash equivalents. Cash equivalents are stated at cost, which approximates quoted market value and includes amounts held in money market funds.

Cash collections on the device payment plan agreement receivables collateralizing asset-backed debt securities are required at certain specified times to be placed into segregated accounts. Deposits to the segregated accounts are considered restricted cash and are included in Prepaid expenses and other and Other assets in our consolidated balance sheets.

Cash, cash equivalents and restricted cash are included in the following line items in the consolidated balance sheets:

(dollars in millions)				
At December 31,	2019		2018	
				Increase / (Decrease)
Cash and cash equivalents	\$	2,594	\$	2,745
Restricted cash:				
Prepaid expenses and other		1,221		1,047
Other assets		102		124
<b>Cash, cash equivalents and restricted cash</b>	<b>\$</b>	<b>3,917</b>	<b>\$</b>	<b>3,916</b>
				<b>1</b>

## Investments in Debt and Equity Securities

Investments in equity securities that are not accounted for under equity method accounting or result in consolidation are to be measured at fair value. For investments in equity securities without readily determinable fair values, Verizon elects the measurement alternative permitted under GAAP to measure these investments at cost, less any impairment, plus or minus changes resulting from observable price changes in orderly transactions for an identical or similar investment of the same issuer. For investments in debt securities without quoted prices, Verizon uses an alternative matrix pricing method. Investments in equity securities that do not result in consolidation of the investee are included in Investments in unconsolidated businesses and debt securities are included in Other assets in our consolidated balance sheets.

## Allowance for Doubtful Accounts

Accounts receivable are recorded in the consolidated financial statements at cost net of an allowance for credit losses, with the exception of indirect-channel device payment plan loans. We maintain allowances for uncollectible accounts receivable, including our direct-channel device payment plan agreement receivables, for estimated losses resulting from the failure or inability of our customers to make required payments. Indirect-channel device payment loans are considered financial instruments and are initially recorded at fair value net of imputed interest, and credit losses are recorded as incurred. However, loan balances are assessed quarterly for impairment and an allowance is recorded if the loan is considered impaired. Our allowance for uncollectible accounts receivable is based on management's assessment of the collectability of specific customer accounts and includes consideration of the credit worthiness and financial condition of those customers. We record an allowance to reduce the receivables to the amount that is reasonably believed to be collectible. We also record an allowance for all other receivables based on multiple factors including historical experience with bad debts, the general economic environment and the aging of such receivables. Similar to traditional service revenue, we record direct device payment plan agreement bad debt expense based on an estimate of the percentage of equipment revenue that will not be collected. This estimate is based on a number of factors including historical write-off experience, credit quality of the customer base and other factors such as macroeconomic conditions. We monitor the aging of our accounts with device payment plan agreement receivables and write-off account balances if collection efforts are unsuccessful and future collection is unlikely.

## Inventories

Inventory consists of wireless and wireline equipment held for sale, which is carried at the lower of cost (determined principally on either an average cost or first-in, first-out basis) or net realizable value.

## Plant and Depreciation

We record property, plant and equipment at cost. Property, plant and equipment are generally depreciated on a straight-line basis.

Leasehold improvements are amortized over the shorter of the estimated life of the improvement or the remaining term of the related lease, calculated from the time the asset was placed in service.

When depreciable assets are retired or otherwise disposed of, the related cost and accumulated depreciation are deducted from the property, plant and equipment accounts and any gains or losses on disposition are recognized in income.

We capitalize and depreciate network software purchased or developed within property, plant and equipment assets. We also capitalize interest associated with the acquisition or construction of network-related assets. Capitalized interest is reported as a reduction in interest expense and depreciated as part of the cost of the network-related assets.

In connection with our ongoing review of the estimated useful lives of property, plant and equipment during 2018, we determined that the average useful lives of certain assets would be increased. These changes in estimates were applied prospectively in 2018 and resulted in a decrease to



depreciation expense of \$271 million for the year ended December 31, 2018. While the timing and extent of current deployment plans are subject to ongoing analysis and modification, we believe that the current estimates of useful lives are reasonable.

## **Computer Software Costs**

We capitalize the cost of internal-use network and non-network software that has a useful life in excess of one year. Subsequent additions, modifications or upgrades to internal-use network and non-network software are capitalized only to the extent that they allow the software to perform a task it previously did not perform. Planning, software maintenance and training costs are expensed in the period in which they are incurred. Also, we capitalize interest associated with the development of internal-use network and non-network software. Capitalized non-network internal-use software costs are amortized using the straight-line method over a period of 3 to 7 years and are included in Other intangible assets, net in our consolidated balance sheets. For a discussion of our impairment policy for capitalized software costs, see "Goodwill and Other Intangible Assets" below. Also, see Note 4 for additional information of internal-use non-network software reflected in our consolidated balance sheets.

## **Goodwill and Other Intangible Assets**

### **Goodwill**

Goodwill is the excess of the acquisition cost of businesses over the fair value of the identifiable net assets acquired. Impairment testing for goodwill is performed annually in the fourth quarter or more frequently if impairment indicators are present.

To determine if goodwill is potentially impaired, we have the option to perform a qualitative assessment. However, we may elect to bypass the qualitative assessment and perform a quantitative impairment test even if no indications of a potential impairment exist. The quantitative impairment test for goodwill is performed at the reporting unit level and compares the fair value of the reporting unit (calculated using a combination of a market approach and a discounted cash flow method) to its carrying value. Estimated fair values of reporting units are Level 3 measures in the fair value hierarchy, see Fair Value Measurements discussion below for additional information.

Under the qualitative assessment, we consider several qualitative factors, including the business enterprise value of the reporting unit from the last quantitative test and the excess of fair value over carrying value from this test, macroeconomic conditions (including changes in interest rates and discount rates), industry and market considerations (including industry revenue and Earnings before interest, taxes, depreciation and amortization (EBITDA) margin projections), the recent and projected financial performance of the reporting unit, as well as other factors.

The market approach includes the use of comparative multiples of guideline companies to corroborate discounted cash flow results. The discounted cash flow method is based on the present value of two components, a projected cash flows and a terminal value. The terminal value represents the expected normalized future cash flows of the reporting unit beyond the cash flows from the discrete projection period. The fair value of the reporting unit is calculated based on the sum of the present value of the cash flows from the discrete period and the present value of the terminal value. The discount rate represents our estimate of the weighted-average cost of capital, or expected return, that a marketplace participant would have required as of the valuation date. If the carrying value exceeds the fair value, an impairment charge is booked for the excess carrying value over fair value, limited to the total amount of goodwill of that reporting unit. During the fourth quarter each year, we update our five-year strategic planning review for each of our reporting units. Those plans consider current economic conditions and trends, estimated future operating results, our view of growth-rates and-anticipated future economic and regulatory conditions.

See Note 4 for additional information regarding our goodwill impairment testing.

### **Intangible Assets Not Subject to Amortization**

A significant portion of our intangible assets are wireless licenses that provide our wireless operations with the exclusive right to utilize designated radio frequency spectrum to provide wireless communication services. While licenses are issued for only a fixed time, generally ten years, such licenses are subject to renewal by the Federal Communications Commission (FCC). License renewals have occurred routinely and at nominal cost. Moreover, we have determined that there are currently no legal, regulatory, contractual, competitive, economic or other factors that limit the useful life of our wireless licenses. As a result, we treat the wireless licenses as an indefinite-lived intangible asset. We re-evaluate the useful life determination for wireless licenses each year to determine whether events and circumstances continue to support an indefinite useful life. We aggregate our wireless licenses into one single unit of accounting, as we utilize our wireless licenses on an integrated basis as part of our nationwide wireless network.

We test our wireless licenses for potential impairment annually or more frequently if impairment indicators are present. We have the option to first perform a qualitative assessment to determine whether it is necessary to perform a quantitative impairment test. However, we may elect to bypass the qualitative assessment in any period and proceed directly to performing the quantitative impairment test. Our quantitative assessment consists of comparing the estimated fair value of our aggregate wireless licenses to the aggregated carrying amount as of the test date. Using a quantitative assessment, we estimate the fair value of our aggregate wireless licenses using the Greenfield approach. The Greenfield approach is an income based valuation approach that values the wireless licenses by calculating the cash flow generating potential of a hypothetical start-up company that goes into business with no assets except the wireless licenses to be valued. A discounted cash flow analysis is used to estimate what a marketplace participant would be willing to pay to purchase the aggregated wireless licenses as of the valuation date. If the estimated fair value of the aggregated wireless licenses is less than the aggregated carrying amount of the wireless licenses, then an impairment charge is recognized. As part of our qualitative assessment, we consider several qualitative factors including the business enterprise value of our historical Wireless segment, macroeconomic conditions (including changes in interest rates and discount rates), industry and market considerations

(including industry revenue and EBITDA margin projections), the recent and projected financial performance of our historical Wireless segment, as well as other factors. See Note 4 for additional information regarding our impairment tests.

Interest expense incurred while qualifying activities are performed to ready wireless licenses for their intended use is capitalized as part of wireless licenses. The capitalization period ends when the development is discontinued or substantially completed and the license is ready for its intended use.

Wireless licenses can be purchased through public auctions conducted by the FCC. Deposits required to participate in these auctions and purchase licenses are recorded as other non-current assets until the corresponding licenses are received and within Net cash used in investing activities in our consolidated statements of cash flows.

### **Intangible Assets Subject to Amortization and Long-Lived Assets**

Our intangible assets that do not have indefinite lives (primarily customer lists and non-network internal-use software) are amortized over their estimated useful lives. All of our intangible assets subject to amortization and other long-lived assets are reviewed for impairment whenever events or changes in circumstances indicate that the carrying amount of the asset may not be recoverable. If any indications of impairment are present, we would test for recoverability by comparing the carrying amount of the asset group to the net undiscounted cash flows expected to be generated from the asset group. If those net undiscounted cash flows do not exceed the carrying amount, we would perform the next step, which is to determine the fair value of the asset and record an impairment, if any. We re-evaluate the useful life determinations for these intangible assets each year to determine whether events and circumstances warrant a revision to their remaining useful lives.

For information related to the carrying amount of goodwill, wireless licenses and other intangible assets, as well as the major components and average useful lives of our other acquired intangible assets, see Note 4.

### **Fair Value Measurements**

Fair value of financial and non-financial assets and liabilities is defined as an exit price, representing the amount that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants. The three-tier hierarchy for inputs used in measuring fair value, which prioritizes the inputs used in the methodologies of measuring fair value for assets and liabilities, is as follows:

Level 1—Quoted prices in active markets for identical assets or liabilities

Level 2—Observable inputs other than quoted prices in active markets for identical assets and liabilities

Level 3—Unobservable pricing inputs in the market

Financial assets and financial liabilities are classified in their entirety based on the lowest level of input that is significant to the fair value measurements. Our assessment of the significance of a particular input to the fair value measurements requires judgment and may affect the valuation of the assets and liabilities being measured and their categorization within the fair value hierarchy.

### **Income Taxes**

Our effective tax rate is based on pre-tax income, statutory tax rates, tax laws and regulations and tax planning strategies available to us in the various jurisdictions in which we operate.

Deferred income taxes are provided for temporary differences in the basis between financial statement and income tax assets and liabilities. Deferred income taxes are recalculated annually at tax rates in effect for the years in which those tax assets and liabilities are expected to be realized or settled. We record valuation allowances to reduce our deferred tax assets to the amount that is more likely than not to be realized.

We use a two-step approach for recognizing and measuring tax benefits taken or expected to be taken in a tax return. The first step is recognition: we determine whether it is more likely than not that a tax position will be sustained upon examination, including resolution of any related appeals or litigation processes, based on the technical merits of the position. In evaluating whether a tax position has met the more-likely-than-not recognition threshold, we presume that the position will be examined by the appropriate taxing authority that has full knowledge of all relevant information. The second step is measurement: a tax position that meets the more-likely-than-not recognition threshold is measured to determine the amount of benefit to recognize in the financial statements. The tax position is measured at the largest amount of benefit that is greater than 50 percent likely of being realized upon ultimate settlement. Differences between tax positions taken in a tax return and amounts recognized in the financial statements will generally result in one or more of the following: an increase in a liability for income taxes payable, a reduction of an income tax refund receivable, a reduction in a deferred tax asset or an increase in a deferred tax liability.

Significant management judgment is required in evaluating our tax positions and in determining our effective tax rate.

### **Stock-Based Compensation**

We measure and recognize compensation expense for all stock-based compensation awards made to employees and directors based on estimated fair values. See Note 10 for additional information.

## Foreign Currency Translation and Transactions

The functional currency of our foreign operations is generally the local currency. For these foreign entities, we translate their financial statements into U.S. dollars using average exchange rates for the period for income statement amounts and using end-of-period exchange rates for assets and liabilities. We record these translation adjustments in Accumulated other comprehensive income, a separate component of Equity, in our consolidated balance sheets. We record exchange gains and losses resulting from the conversion of transaction currency to functional currency as a component of Other income (expense), net.

## Employee Benefit Plans

Pension and postretirement health care and life insurance benefits earned during the year, as well as interest on projected benefit obligations, are accrued. Prior service costs and credits resulting from changes in plan benefits are generally amortized over the average remaining service period of the employees expected to receive benefits. Expected return on plan assets is determined by applying the return on assets assumption to the actual fair value of plan assets. Actuarial gains and losses are recognized in Other income (expense), net in the year in which they occur. These gains and losses are measured annually as of December 31 or upon a remeasurement event. Verizon management employees no longer earn pension benefits or earn service towards the Company retiree medical subsidy. See Note 11 for additional information.

We recognize a pension or a postretirement plan's funded status as either an asset or liability in the consolidated balance sheets. Also, we measure any unrecognized prior service costs and credits that arise during the period as a component of Accumulated other comprehensive income, net of applicable income tax.

## Derivative Instruments

We enter into derivative transactions primarily to manage our exposure to fluctuations in foreign currency exchange rates and interest rates. We employ risk management strategies, which may include the use of a variety of derivatives including cross currency swaps, forward starting interest rate swaps, interest rate swaps, interest rate caps and foreign exchange forwards. We do not hold derivatives for trading purposes.

We measure all derivatives at fair value and recognize them as either assets or liabilities in our consolidated balance sheets. Our derivative instruments are valued primarily using models based on readily observable market parameters for all substantial terms of our derivative contracts and thus are classified as Level 2. Changes in the fair values of derivative instruments not qualifying for hedge accounting are recognized in earnings in the current period. For fair value hedges, the change in the fair value of the derivative instruments is recognized in earnings, along with the change in the fair value of the hedged item. For cash flow hedges, the change in the fair value of the derivative instruments is reported in Other comprehensive income (loss) and recognized in earnings when the hedged item is recognized in earnings. For net investment hedges of certain of our foreign operations, the change in the fair value of the derivative instruments is reported in Other comprehensive income (loss) as part of the cumulative translation adjustment and partially offset the impact of foreign currency changes on the value of our net investment. See Note 9 for additional information.

## Variable Interest Entities

VIEs are entities that lack sufficient equity to permit the entity to finance its activities without additional subordinated financial support from other parties, have equity investors that do not have the ability to make significant decisions relating to the entity's operations through voting rights, do not have the obligation to absorb the expected losses, or do not have the right to receive the residual returns of the entity. We consolidate the assets and liabilities of VIEs when we are deemed to be the primary beneficiary. The primary beneficiary is the party that has the power to make the decisions that most significantly affect the economic performance of the VIE and has the obligation to absorb losses or the right to receive benefits that could potentially be significant to the VIE.

## Recently Adopted Accounting Standards

The following ASUs were issued by Financial Accounting Standards Board (FASB), and have been recently adopted by Verizon.

Description	Date of Adoption	Effect on Financial Statements
<b>ASU 2016-02, ASU 2018-01, ASU 2018-10, ASU 2018-11, ASU 2018-20 and ASU 2019-01, Leases (Topic 842)</b>		
The FASB issued Topic 842 requiring entities to recognize assets and liabilities on the balance sheet for all leases, with certain exceptions. In addition, Topic 842 enables users of financial statements to further understand the amount, timing and uncertainty of cash flows arising from leases. Topic 842 allowed for a modified retrospective application and was effective as of the first quarter of 2019. Entities were allowed to apply the modified retrospective approach: (1) retrospectively to each prior reporting period presented in the financial statements with the cumulative-effect adjustment recognized at the beginning of the earliest comparative period presented; or (2) retrospectively at the beginning of the period of adoption (January 1, 2019) through a cumulative-effect adjustment. The modified retrospective approach includes a number of optional practical expedients that entities may elect to apply.	1/1/2019	We adopted Topic 842 beginning on January 1, 2019, using the modified retrospective approach with a cumulative-effect adjustment to opening retained earnings recorded at the beginning of the period of adoption. Therefore, upon adoption, we have recognized and measured leases without revising comparative period information or disclosure. We recorded an increase of \$410 million (net of tax) to retained earnings on January 1, 2019 which related to deferred sale leaseback gains recognized from prior transactions. Additionally, the adoption of the standard had a significant impact in our consolidated balance sheet due to the recognition of \$22.1 billion of operating lease liabilities, along with \$23.2 billion of operating lease right-of-use-assets.

The cumulative after-tax effect of the changes made to our consolidated balance sheet for the adoption of Topic 842 were as follows:

(dollars in millions)	At December 31, 2018	Adjustments due to Topic 842	At January 1, 2019
Prepaid expenses and other	\$ 5,453	\$ (329)	\$ 5,124
Operating lease right-of-use assets	—	23,241	23,241
Other assets	11,717	(2,048)	9,669
Accounts payable and accrued liabilities	22,501	(3)	22,498
Other current liabilities	8,239	(2)	8,237
Current operating lease liabilities	—	2,931	2,931
Deferred income taxes	33,795	139	33,934
Non-current operating lease liabilities	—	19,203	19,203
Other liabilities	13,922	(1,815)	12,107
Retained earnings	43,542	410	43,952
Noncontrolling interests	1,565	1	1,566

In addition to the increase to the operating lease liabilities and right-of-use assets and the derecognition of deferred sale leaseback gains through opening retained earnings, Topic 842 also resulted in reclassifying the presentation of prepaid and deferred rent to operating lease right-of-use assets. The operating lease right-of-use assets amount also includes the balance of any prepaid lease payments, unamortized initial direct costs and lease incentives.

We elected the package of practical expedients permitted under the transition guidance within the new standard. Accordingly, we have adopted these practical expedients and did not reassess: (1) whether an expired or existing contract is a lease or contains an embedded lease; (2) lease classification of an expired or existing lease; or (3) capitalization of initial direct costs for an expired or existing lease. In addition, we have elected the land easement transition practical expedient, and did not reassess whether an existing or expired land easement is a lease or contains a lease if it has not historically been accounted for as a lease.

We lease network equipment including towers, distributed antenna systems, small cells, real estate, connectivity mediums which include dark fiber, equipment, and other various types of assets for use in our operations under both operating and finance leases. We assess whether an arrangement is a lease or contains a lease at inception. For arrangements considered leases or that contain a lease that is accounted for separately, we determine the classification and initial measurement of the right-of-use asset and lease liability at the lease commencement date, which is the date that the underlying asset becomes available for use.

For both operating and finance leases, we recognize a right-of-use asset, which represents our right to use the underlying asset for the lease term, and a lease liability, which represents the present value of our obligation to make payments arising over the lease term. The present value of the lease payments is calculated using the incremental borrowing rate for operating and finance leases. The incremental borrowing rate is determined using a portfolio approach based on the rate of interest that the Company would have to pay to borrow an amount equal to the lease payments on a collateralized basis over a similar term. Management uses the unsecured borrowing rate and risk-adjusts that rate to approximate a collateralized rate, which is updated on a quarterly basis.

In those circumstances where the Company is the lessee, we have elected to account for non-lease components associated with our leases (e.g., common area maintenance costs) and lease components as a single lease component for substantially all of our asset classes. Additionally, in arrangements where we are the lessor, we have customer premise equipment for which we apply the lease and non-lease component practical expedient and account for non-lease components (e.g., service revenue) and lease components as combined components under the revenue recognition guidance in Topic 606 as the service revenues are the predominant components in the arrangements.

Rent expense for operating leases is recognized on a straight-line basis over the term of the lease and is included in either Cost of services or Selling, general and administrative expense in our consolidated statements of income, based on the use of the facility or equipment on which rent is being paid. Variable rent payments related to both operating and finance leases are expensed in the period incurred. Our variable lease payments consist of payments dependent on various external indicators, including real estate taxes, common area maintenance charges and utility usage.

Operating leases with a term of 12 months or less are not recorded on the balance sheet; we recognize rent expense for these leases on a straight-line basis over the lease term.

We recognize the amortization of the right-of-use asset for our finance leases on a straight-line basis over the shorter of the lease term or the useful life of the right-of-use asset in Depreciation and amortization expense in our consolidated statements of income. The interest expense related to finance leases is recognized using the effective interest method based on the discount rate determined at lease commencement and is included within Interest expense in our consolidated statements of income.

See Note 6 for additional information related to leases, including disclosure required under Topic 842.

## Opening Equity Balance Sheet Adjustments from Accounting Standards Adopted in 2018

On January 1, 2018, we adopted Topic 606, ASU 2018-02, Income Statement-Reporting Comprehensive Income and other ASUs. We adopted Topic 606 using the modified retrospective method. We early adopted ASU 2018-02, which allows a reclassification from accumulated other comprehensive income to retained earnings for stranded tax effects resulting from Tax Cuts and Jobs Act (TCJA). The cumulative after-tax effect of the changes made to our consolidated balance sheet for the adoption of Topic 606, ASU 2018-02 and other ASUs was as follows:

(dollars in millions)	At December 31, 2017	Adjustments due to			At January 1, 2018
		Topic 606	ASU 2018-02	Other ASUs	
Retained earnings	35,635	2,890	(652)	(6)	37,867
Accumulated other comprehensive income	2,659	—	652	(22)	3,289
Noncontrolling interests	1,591	44	—	—	1,635

## Recently Issued Accounting Standards

The following ASUs have been recently issued by the FASB.

Description	Date of Adoption	Effect on Financial Statements
<b>ASU 2016-13, ASU 2018-19, ASU 2019-04, ASU 2019-05, Financial Instruments - Credit Losses (Topic 326)</b>		
In June 2016, the FASB issued this standard update which requires certain financial assets be measured at amortized cost net of an allowance for estimated credit losses such that the net receivable represents the present value of expected cash collection. In addition, this standard update requires that certain financial assets be measured at amortized cost reflecting an allowance for estimated credit losses expected to occur over the life of the assets. The estimate of credit losses must be based on all relevant information including historical information, current conditions and reasonable and supportable forecasts that affect the collectability of the amounts. An entity will apply the update through a cumulative effect adjustment to retained earnings as of the beginning of the first reporting period in which the guidance is effective (January 1, 2020). A prospective transition approach is required for debt securities for which an other-than-temporary impairment has been recognized before the effective date. Early adoption of this standard is permitted.	1/1/2020	We established a cross-functional coordinated team to implement the standard update. We have completed our assessment of the expected impacts and updated our processes to meet the standards reporting and disclosure requirements. Upon adoption of this standard on January 1, 2020, we expect the cumulative effect of initially applying the new standard to result in a decrease to the opening balance of retained earnings ranging from approximately \$200 million to \$300 million on a pre-tax basis (\$150 million to \$225 million net of tax), primarily related to the expected impact on certain device payment plan agreement receivables. We do not expect our operating results to be significantly impacted by this standard update.

## Note 2. Revenue and Contract Costs

We earn revenue from contracts with customers, primarily through the provision of telecommunications and other services and through the sale of wireless equipment. These services include a variety of communication and connectivity services for our Consumer and Business customers including other carriers that use our facilities to provide services to their customers, as well as professional and integrated managed services for our large enterprises and government customers. We account for these revenues under Topic 606, which we adopted on January 1, 2018, using the modified retrospective approach. We also earn revenues that are not accounted for under Topic 606 from leasing arrangements (such as those for towers and equipment), captive reinsurance arrangements primarily related to wireless device insurance and the interest on equipment financed under a device payment plan agreement when sold to the customer by an authorized agent.

We applied the new revenue recognition standard to customer contracts not completed at the date of initial adoption. For incomplete contracts that were modified before the date of adoption, the Company elected to use the practical expedient available under the modified retrospective method, which allows us to aggregate the effect of all modifications when identifying satisfied and unsatisfied performance obligations, determining the transaction price and allocating transaction price to the satisfied and unsatisfied performance obligations for the modified contract at transition. Results for reporting periods beginning after January 1, 2018 are presented under Topic 606, while amounts reported for prior periods have not been adjusted and continue to be reported under accounting standards in effect for those periods.

Prior to the adoption of Topic 606, we were required to limit the revenue recognized when a wireless device was sold to the amount of consideration that was not contingent on the provision of future services, which was typically limited to the amount of consideration received from the customer at the time of sale. Under Topic 606, the total consideration in the contract is allocated between wireless equipment and service based on their relative standalone selling prices. This change primarily impacts our arrangements that include sales of wireless devices at subsidized prices in conjunction with a fixed-term plan, also known as the subsidy model, for service. Accordingly, under Topic 606, generally more equipment revenue is recognized upon sale of the equipment to the customer and less service revenue is recognized over the contract term than was previously recognized under the prior "Revenue Recognition" (Topic 605) standard. At the time the equipment is sold, this allocation results in the recognition

of a contract asset equal to the difference between the amount of revenue recognized and the amount of consideration received from the customer. As of January 2017, we no longer offer Consumer customers new fixed-term plans with subsidized equipment pricing; however, we continue to offer fixed-term plans to our Business customers. At December 31, 2019 and December 31, 2018, approximately 12% and 14% of retail postpaid connections were under fixed-term plans, respectively.

Topic 606 also requires the deferral of incremental costs incurred to obtain a customer contract, which are then amortized to expense, as a component of Selling, general and administrative expense, over the respective periods of expected benefit. As a result, a significant amount of our sales commission costs, which were historically expensed as incurred under our previous accounting, relating to our contracts to provide wireless and wireline services, are now deferred and amortized under Topic 606.

Finally, under Topic 605, at the time of the sale of a device, we imputed risk adjusted interest on the device payment plan agreement receivables. We recorded the imputed interest as a reduction to the related accounts receivable and interest income was recognized over the financed device payment term. Under Topic 606, while there continues to be a financing component in both the fixed-term plans and device payment plans, also known as the installment model, we have determined that this financing component for our customer classes in the direct channels for wireless devices are not significant and therefore we no longer impute interest for these contracts. This change results in additional revenue recognized upon the sale of wireless devices and no interest income recognized over the device payment term.

A reconciliation of the adjustments from the adoption of Topic 606 relative to Topic 605 on certain impacted financial statement line items in our consolidated statements of income is as follows:

(dollars in millions)	Year Ended December 31, 2018			
	As reported	Balances without adoption of Topic 606		Adjustments
<b>Operating Revenues</b>				
Service revenues and other	\$ 108,605	\$	109,964	\$ (1,359)
Wireless equipment revenues	22,258		20,474	1,784
<b>Total Operating Revenues</b>	130,863		130,438	425
Cost of services (exclusive of items shown below)	32,185		32,240	(55)
Cost of wireless equipment	23,323		23,189	134
Selling, general and administrative expense	31,083		32,588	(1,505)
Equity in losses of unconsolidated businesses	(186)		(187)	1
<b>Income Before Provision For Income Taxes</b>	19,623		17,771	1,852
Provision for income taxes	(3,584)		(3,104)	(480)
<b>Net Income</b>	\$ 16,039	\$	14,667	\$ 1,372
Net income attributable to noncontrolling interests	\$ 511	\$	481	\$ 30
Net income attributable to Verizon	15,528		14,186	1,342
<b>Net Income</b>	\$ 16,039	\$	14,667	\$ 1,372

## Revenue by Category

We have two reportable segments that we operate and manage as strategic business units, Consumer and Business. Revenue is disaggregated by products and services within Consumer, and customer groups (Global Enterprise, Small and Medium Business, Public Sector and Other, and Wholesale) within Business. See Note 13 for additional information on revenue by segment.

Corporate and other includes the results of our media business, Verizon Media, and other businesses. Verizon Media generated revenues from contracts with customers under Topic 606 of approximately \$7.5 billion and \$7.7 billion for the years ended December 31, 2019 and 2018, respectively.

We also earn revenues that are not accounted for under Topic 606 from leasing arrangements (such as those for towers and equipment), captive reinsurance arrangements primarily related to wireless device insurance and the interest on equipment financed under a device payment plan agreement when sold to the customer by an authorized agent. As allowed by the practical expedient within Topic 842, we have elected to combine the lease and non-lease components for those arrangements of customer premise equipment where we are the lessor as components accounted for under Topic 606. Revenues from arrangements that were not accounted for under Topic 606 were approximately \$3.1 billion and \$4.5 billion for the years ended December 31, 2019 and 2018, respectively.

## Remaining Performance Obligations

When allocating the total contract transaction price to identified performance obligations, a portion of the total transaction price may relate to service performance obligations which were not satisfied or are partially satisfied as of the end of the reporting period. Below we disclose

information relating to these unsatisfied performance obligations. Upon adoption, we elected to apply the practical expedient available under Topic 606 that provides the option to exclude the expected revenues arising from unsatisfied performance obligations related to contracts that have an original expected duration of one year or less. This situation primarily arises with respect to certain month-to-month service contracts. At December 31, 2019, month-to-month service contracts represented approximately 88% of our wireless postpaid contracts and 61% of our wireline Consumer and Small and Medium Business contracts, compared to December 31, 2018, for which month-to-month service contracts represented approximately 86% of our wireless postpaid contracts and 56% of our wireline Consumer and Small and Medium Business contracts.

Additionally, certain contracts provide customers the option to purchase additional services. The fees related to these additional services are recognized when the customer exercises the option (typically on a month-to-month basis).

Contracts for wireless services are generally either month-to-month and cancellable at any time (typically under a device payment plan) or contain terms ranging from greater than one month to up to two years (typically under a fixed-term plan). Additionally, customers may incur charges based on usage or additional optional services purchased in conjunction with entering into a contract that can be cancelled at any time and therefore are not included in the transaction price. The transaction price allocated to service performance obligations, which are not satisfied or are partially satisfied as of the end of the reporting period, are generally related to our fixed-term plans.

Our Consumer group customers also include traditional wholesale resellers that purchase and resell wireless service under their own brands to their respective customers. Reseller arrangements generally include a stated contract term, which typically extends longer than two years and, in some cases, include a periodic minimum revenue commitment over the contract term for which revenues will be recognized in future periods.

Consumer customer contracts for wireline services generally have a service term of two years; however, this term may be shorter than twelve months or may be month-to-month. Certain contracts with Business customers for wireline services extend into future periods, contain fixed monthly fees and usage-based fees, and can include annual commitments in each year of the contract or commitments over the entire specified contract term; however, a significant number of contracts for wireline services with our Business customers have a contract term that is twelve months or less.

Additionally, there are certain contracts with Business customers for wireline and telematics services and certain Media contracts with customers that have a contractual minimum fee over the total contract term. We cannot predict the time period when revenue will be recognized related to those contracts; thus, they are excluded from the time bands below. These contracts have varying terms spanning over approximately five years ending in November 2024 and have aggregate contract minimum payments totaling \$3.4 billion.

At December 31, 2019, the transaction price related to unsatisfied performance obligations for total Verizon that is expected to be recognized for 2020, 2021 and thereafter was \$20.2 billion, \$9.4 billion and \$1.6 billion, respectively. Remaining performance obligation estimates are subject to change and are affected by several factors, including terminations and changes in the timing and scope of contracts, arising from contract modifications.

### Accounts Receivable and Contract Balances

The timing of revenue recognition may differ from the time of billing to our customers. Receivables presented in our consolidated balance sheet represent an unconditional right to consideration. Contract balances represent amounts from an arrangement when either Verizon has performed, by transferring goods or services to the customer in advance of receiving all or partial consideration for such goods and services from the customer, or the customer has made payment to Verizon in advance of obtaining control of the goods and/or services promised to the customer in the contract.

The following table presents information about receivables from contracts with customers:

(dollars in millions)	At December 31, 2019	At December 31, 2018	At January 1, 2018
Receivables <sup>(1)</sup>	\$ 12,078	\$ 12,104	\$ 12,073
Device payment plan agreement receivables <sup>(2)</sup>	11,741	8,940	1,461

<sup>(1)</sup> Balances do not include receivables related to the following contracts: leasing arrangements (such as those for towers and equipment), captive reinsurance arrangements primarily related to wireless device insurance and the interest on equipment financed under a device payment plan agreement when sold to the customer by an authorized agent.

<sup>(2)</sup> Included in device payment plan agreement receivables presented in Note 8. Balances do not include receivables related to contracts completed prior to January 1, 2018 and receivables derived from the sale of equipment on a device payment plan through an authorized agent.



The following table presents information about contract balances:

(dollars in millions)	At December 31, 2019	At December 31, 2018	At January 1, 2018
Contract asset	\$ 1,150	\$ 1,003	\$ 1,170
Contract liability	5,307	4,943	4,452

Contract assets primarily relate to our rights to consideration for goods or services provided to customers but for which we do not have an unconditional right at the reporting date. Under a fixed-term plan, total contract revenue is allocated between wireless service and equipment revenues, as discussed above. In conjunction with these arrangements, a contract asset is created, which represents the difference between the amount of equipment revenue recognized upon sale and the amount of consideration received from the customer when the performance obligation related to the transfer of control of the equipment is satisfied. The contract asset is reclassified to accounts receivable as wireless services are provided and billed. We have the right to bill the customer as service is provided over time, which results in our right to the payment being unconditional. The contract asset balances are presented in our consolidated balance sheet as Prepaid expenses and other and Other assets. We assess our contract assets for impairment on a quarterly basis and will recognize an impairment charge to the extent their carrying amount is not recoverable.

Contract assets increased \$147 million during the year ended December 31, 2019. The change in the contract asset balance was primarily due to new contracts and increases in sales promotions recognized upfront, driven by customer activity related to wireless and Fios services, partially offset by reclassifications to accounts receivable due to billings on existing contracts and impairment charges of \$113 million. Contract assets decreased \$167 million during the year ended December 31, 2018. The change in the contract asset balance was primarily due to reclassifications to accounts receivable due to billings on existing contracts and impairment charges of \$116 million, offset by new contracts related to wireless and Fios services.

Contract liabilities arise when we bill our customers and receive consideration in advance of providing the goods or services promised in the contract. We typically bill service one month in advance, which is the primary component of the contract liability balance. Contract liabilities are recognized as revenue when services are provided to the customer. The contract liability balances are presented in our consolidated balance sheet as Other current liabilities and Other liabilities.

Contract liabilities increased \$364 million during the year ended December 31, 2019. The change in contract liabilities was primarily due to increases in sales promotions recognized over time and upfront fees, as well as increases in deferred revenue related to advanced billings, partially offset by the satisfaction of performance obligations related to wireless and Fios services. Contract liabilities increased \$491 million during the year ended December 31, 2018. The change in contract liabilities was primarily due to increases in sales promotions, as well as increases in deferred revenue related to advanced billings, partially offset by the satisfaction of performance obligations related to wireless and Fios services.

Revenue recognized during the years ended December 31, 2019 and 2018 related to contract liabilities existing at January 1, 2019 and 2018 were \$4.2 billion and \$3.9 billion, respectively, as performance obligations related to services were satisfied.

The balance of contract assets and contract liabilities recorded in our consolidated balance sheets were as follows:

(dollars in millions)	At December 31, 2019	At December 31, 2018
<b>Assets</b>		
Prepaid expenses and other	\$ 848	\$ 757
Other assets	302	246
<b>Total</b>	<b>\$ 1,150</b>	<b>\$ 1,003</b>
<b>Liabilities</b>		
Other current liabilities	\$ 4,651	\$ 4,207
Other liabilities	656	736
<b>Total</b>	<b>\$ 5,307</b>	<b>\$ 4,943</b>

## Contract Costs

As discussed in Note 1, Topic 606 requires the recognition of an asset for incremental costs to obtain a customer contract, which is then amortized to expense over the respective period of expected benefit. We recognize an asset for incremental commission costs paid to internal and external sales personnel and agents in conjunction with obtaining customer contracts. We only defer these costs when we have determined the commissions are incremental costs that would not have been incurred absent the customer contract and are expected to be recoverable. Costs to obtain a contract are amortized and recorded ratably as commission expense over the period representing the transfer of goods or services to which the assets relate. Costs to obtain wireless contracts are amortized over both of our Consumer and Business customers' estimated device upgrade cycles, as such costs are typically incurred each time a customer upgrades. Costs to obtain wireline contracts are amortized as expense over the estimated customer relationship period for our Consumer customers. Incremental costs to obtain wireline contracts for our Business customers are insignificant. Costs to obtain contracts are recorded in Selling, general and administrative expense.



We also defer costs incurred to fulfill contracts that: (1) relate directly to the contract; (2) are expected to generate resources that will be used to satisfy our performance obligation under the contract; and (3) are expected to be recovered through revenue generated under the contract. Contract fulfillment costs are expensed as we satisfy our performance obligations and recorded to Cost of services. These costs principally relate to direct costs that enhance our wireline business resources, such as costs incurred to install circuits.

We determine the amortization periods for our costs incurred to obtain or fulfill a customer contract at a portfolio level due to the similarities within these customer contract portfolios.

Other costs, such as general costs or costs related to past performance obligations, are expensed as incurred.

Collectively, costs to obtain a contract and costs to fulfill a contract are referred to as deferred contract costs, and amortized over a 2 to 5-year period. Deferred contract costs are classified as current or non-current within Prepaid expenses and other and Other assets, respectively.

The balances of deferred contract costs included in our consolidated balance sheets were as follows:

(dollars in millions)	At December 31,		At December 31,	
	2019		2018	
<b>Assets</b>				
Prepaid expenses and other	\$	2,578	\$	2,083
Other assets		1,911		1,812
<b>Total</b>	<b>\$</b>	<b>4,489</b>	<b>\$</b>	<b>3,895</b>

For the years ended December 31, 2019 and 2018, we recognized expense of \$2.7 billion and \$2.0 billion, respectively, associated with the amortization of deferred contract costs, primarily within Selling, general and administrative expense in our consolidated statements of income.

We assess our deferred contract costs for impairment on a quarterly basis. We recognize an impairment charge to the extent the carrying amount of a deferred cost exceeds the remaining amount of consideration we expect to receive in exchange for the goods and services related to the cost, less the expected costs related directly to providing those goods and services that have not yet been recognized as expenses. There have been no impairment charges recognized for the years ended December 31, 2019 and 2018.

### Note 3. Acquisitions and Divestitures

#### Spectrum License Transactions

Since 2017, we have entered into or completed several strategic spectrum transactions including:

- During the fourth quarter of 2016, we entered into a license exchange agreement with affiliates of AT&T Inc. (AT&T) to exchange certain Advanced Wireless Services (AWS) and Personal Communication Services (PCS) spectrum licenses. This non-cash exchange was completed in February 2017. As a result, we received \$1.0 billion of AWS and PCS spectrum licenses at fair value and recorded a pre-tax gain of \$126 million in Selling, general and administrative expense in our consolidated statement of income for the year ended December 31, 2017.
- During the first quarter of 2017, we entered into a license exchange agreement with affiliates of Sprint Corporation to exchange certain PCS spectrum licenses. This non-cash exchange was completed in May 2017. As a result, we received \$132 million of PCS spectrum licenses at fair value and recorded an insignificant gain in Selling, general and administrative expense in our consolidated statement of income for the year ended December 31, 2017.
- During the third quarter of 2017, we entered into a license exchange agreement with affiliates of T-Mobile USA Inc. to exchange certain AWS and PCS spectrum licenses. This non-cash exchange was completed in December 2017. As a result, we received \$414 million of AWS and PCS spectrum licenses at fair value and recorded a pre-tax gain of \$143 million in Selling, general and administrative expense in our consolidated statement of income for the year ended December 31, 2017.
- During 2018, we entered into and completed various wireless license transactions, including the purchase of Straight Path Communications Inc. (Straight Path) and NextLink Wireless LLC (NextLink).
- During 2019, the FCC completed two millimeter wave spectrum license auctions. Verizon participated in these auctions and was the high bidder on 9 and 1,066 licenses, respectively, in the 24 Gigahertz (GHz) and 28 GHz bands. We submitted an application to the FCC and paid cash of approximately \$521 million for the licenses. We received the licenses during the fourth quarter of 2019.
- During 2019, we entered into and completed various other wireless license acquisitions for an insignificant amount of cash consideration.

In December 2019, the FCC incentive auction for spectrum licenses in the upper 37 GHz, 39 GHz, and 47 GHz bands commenced. As an incumbent licensee, Verizon received vouchers related to our existing 39 GHz licenses. These vouchers can be converted into cash, the amount of which will not be known until the conclusion of the auction, or applied toward the purchase price of spectrum in the auction. At the conclusion

of the auction, all existing licenses will be cancelled and new reconfigured licenses or cash will be distributed depending on the results of the auction. Due to the FCC's rules restricting communications regarding the auction, we will not disclose our financial plans for the auction during the quiet period for this auction unless legally required. In addition, as of this time, until the completion of the auction process, we cannot determine the resulting financial outcome, including a potential gain or loss. Such gain or loss, if any, may be material.

### **Acquisition of AOL Inc.**

In May 2015, we entered into an Agreement and Plan of Merger with AOL Inc. (AOL) pursuant to which we commenced a tender offer to acquire all of the outstanding shares of common stock of AOL at a price of \$50.00 per share, net to the seller in cash, without interest and less any applicable withholding taxes.

On June 23, 2015, we completed the tender offer and merger, and AOL became a wholly-owned subsidiary of Verizon. The aggregate cash consideration paid by Verizon at the closing of these transactions was approximately \$3.8 billion. Holders of approximately 6.6 million shares exercised appraisal rights under Delaware law. In September 2018, we obtained court approval to settle this matter for total cash consideration of \$219 million of which an insignificant amount relates to interest, resulting in an insignificant gain. We paid the cash consideration in October 2018.

### **XO Holdings**

In February 2016, we entered into a purchase agreement to acquire XO Holdings' wireline business (XO), which owned and operated one of the largest fiber-based Internet Protocol and Ethernet networks in the U.S. Concurrently, we entered into a separate agreement to utilize certain wireless spectrum from a wholly-owned subsidiary of XO Holdings, NextLink, that held XO's millimeter-wave wireless spectrum. The agreement included an option, subject to certain conditions, to acquire NextLink. In February 2017, we completed our acquisition of XO for total cash consideration of approximately \$1.5 billion, of which \$100 million was paid in 2015, and we prepaid \$320 million in connection with the NextLink option which represented the fair value of the option.

In April 2017, we exercised our option to buy NextLink for approximately \$493 million, subject to certain adjustments, of which \$320 million was prepaid in the first quarter of 2017. The transaction closed in January 2018. The acquisition of NextLink was accounted for as an asset acquisition, as substantially all of the value related to the acquired spectrum. Upon closing, we recorded approximately \$657 million of wireless licenses, \$110 million of a deferred tax liability and \$58 million of other liabilities.

The consolidated financial statements include the results of XO's operations from the date the acquisition closed. If the acquisition of XO had been completed as of January 1, 2016, the results of operations of Verizon would not have been significantly different than our previously reported results of operations.

The acquisition of XO was accounted for as a business combination. The consideration was allocated to the assets acquired and liabilities assumed based on their fair values as of the close of the acquisition. We recorded approximately \$1.2 billion of property, plant and equipment, \$120 million of goodwill and \$194 million of other intangible assets. Goodwill is calculated as the difference between the acquisition date fair value of the consideration transferred and the fair value of the net assets acquired. The goodwill represents future economic benefits that we expect to achieve as a result of the acquisition.

### **Acquisition of Yahoo! Inc.'s Operating Business**

In July 2016, Verizon entered into a stock purchase agreement (the Purchase Agreement) with Yahoo! Inc. (Yahoo). Pursuant to the Purchase Agreement, upon the terms and subject to the conditions thereof, we agreed to acquire the stock of one or more subsidiaries of Yahoo holding all of Yahoo's operating business for approximately \$4.83 billion in cash, subject to certain adjustments (the Transaction).

In February 2017, Verizon and Yahoo entered into an amendment to the Purchase Agreement, pursuant to which the Transaction purchase price was reduced by \$350 million to approximately \$4.48 billion in cash, subject to certain adjustments. Subject to certain exceptions, the parties also agreed that certain user security and data breaches incurred by Yahoo (and the losses arising therefrom) were to be disregarded: (1) for purposes of specified conditions to Verizon's obligations to close the Transaction; and (2) in determining whether a "Business Material Adverse Effect" under the Purchase Agreement had occurred.

Concurrently with the amendment of the Purchase Agreement, Yahoo and Yahoo Holdings, Inc., a wholly-owned subsidiary of Yahoo that Verizon agreed to purchase pursuant to the Transaction, also entered into an amendment to the related reorganization agreement, pursuant to which Yahoo (which changed its name to Altaba Inc. following the closing of the Transaction) retains 50% of certain post-closing liabilities arising out of governmental or third-party investigations, litigations or other claims related to certain user security and data breaches incurred by Yahoo prior to its acquisition by Verizon, including an August 2013 data breach disclosed by Yahoo on December 14, 2016. At that time, Yahoo disclosed that more than one billion of the approximately three billion accounts existing in 2013 had likely been affected. In accordance with the original Transaction agreements, Yahoo will continue to retain 100% of any liabilities arising out of any shareholder lawsuits (including derivative claims) and investigations and actions by the SEC.

In June 2017, we completed the Transaction. The aggregate purchase consideration at the closing of the Transaction was approximately \$4.7 billion, including cash acquired of \$230 million.

Prior to the closing of the Transaction, pursuant to a related reorganization agreement, Yahoo transferred all of the assets and liabilities constituting Yahoo's operating business to the subsidiaries that we acquired in the Transaction. The assets that we acquired did not include Yahoo's ownership interests in Alibaba, Yahoo! Japan and certain other investments, certain undeveloped land recently divested by Yahoo, certain non-core intellectual property or its cash, other than the cash from its operating business we acquired. We received for our benefit and that of our current and certain future affiliates a non-exclusive, worldwide, perpetual, royalty-free license to all of Yahoo's intellectual property that was not conveyed with the business.

In October 2017, based upon information that we received in connection with our integration of Yahoo's operating business, we disclosed that we believe that the August 2013 data breach previously disclosed by Yahoo affected all of its accounts.

The acquisition of Yahoo's operating business has been accounted for as a business combination. The fair values of the assets acquired and liabilities assumed were determined using the income, cost, market and multiple period excess earnings approaches. The fair value measurements were primarily based on significant inputs that are not observable in the market and thus represent a Level 3 measurement as defined in Accounting Standards Codification 820, Fair Value Measurements and Disclosures, other than long-term debt assumed in the acquisition. The income approach was primarily used to value the intangible assets, consisting primarily of acquired technology and customer relationships. The income approach indicates value for an asset based on the present value of cash flow projected to be generated by the asset. Projected cash flow is discounted at a required rate of return that reflects the relative risk of achieving the cash flow and the time value of money. The cost approach, which estimates value by determining the current cost of replacing an asset with another of equivalent economic utility, was used, as appropriate, for property, plant and equipment. The cost to replace a given asset reflects the estimated reproduction or replacement cost for the property, less an allowance for loss in value due to depreciation.

In June 2018, we finalized the accounting for the Yahoo acquisition. The following table summarizes the final accounting for the assets acquired, including cash acquired of \$230 million, and liabilities assumed as of the close of the acquisition, as well as the fair value at the acquisition date of Yahoo's noncontrolling interests:

(dollars in millions)	As of December 31, 2017		Measurement-period adjustments <sup>(1)</sup>		Adjusted Fair Value
Cash payment to Yahoo's equity holders	\$	4,673	\$	—	\$ 4,673
Estimated liabilities to be paid		38		—	38
<b>Total consideration</b>	<b>\$</b>	<b>4,711</b>	<b>\$</b>	<b>—</b>	<b>\$ 4,711</b>
Assets acquired:					
Goodwill	\$	1,929	\$	215	\$ 2,144
Intangible assets subject to amortization		1,873		1	1,874
Property, plant, and equipment		1,805		(6)	1,799
Other		1,332		128	1,460
Total assets acquired		6,939		338	7,277
Liabilities assumed:					
Total liabilities assumed		2,178		338	2,516
Net assets acquired:		4,761		—	4,761
Noncontrolling interest		(50)		—	(50)
<b>Total consideration</b>	<b>\$</b>	<b>4,711</b>	<b>\$</b>	<b>—</b>	<b>\$ 4,711</b>

<sup>(1)</sup> Adjustments to the fair value measurements to reflect new information obtained about facts and circumstances that existed as of the acquisition date that, if known, would have affected the measurement of the amounts recognized as of that date. The most significant adjustments related to an increase in goodwill and the recognition of liabilities per certain pre-acquisition contingencies.

On the closing date of the Transaction, each unvested and outstanding Yahoo restricted stock unit award that was held by an employee who became an employee of Verizon was replaced with a Verizon restricted stock unit award, which is generally payable in cash upon the applicable vesting date. The value of those outstanding restricted stock units on the acquisition date was approximately \$1.0 billion.

Goodwill is calculated as the difference between the acquisition date fair value of the consideration transferred and the fair value of the net assets acquired. The goodwill was primarily attributable to increased synergies that were expected to be achieved from the integration of Yahoo's operating business into our Media business. The goodwill related to this acquisition is included within Corporate and other.

The consolidated financial statements include the results of Yahoo's operating business from the date the acquisition closed. If the acquisition of Yahoo's operating business had been completed as of January 1, 2016, the results of operations of Verizon would not have been significantly different than our previously reported results of operations.

## Acquisition and Integration Related Charges

Related to the Yahoo Transaction, we recorded \$473 million of acquisition and integration related charges during the year ended December 31, 2018, of which \$273 million, \$195 million and an insignificant amount are related to Severance, Integration costs and Transaction costs, respectively. In connection with the Yahoo Transaction, we recorded acquisition and integration related charges of approximately \$762 million during the year ended December 31, 2017, of which \$526 million, \$166 million and \$70 million related to Severance, Integration costs and Transaction costs, respectively. These charges were recorded in Selling, general and administrative expense in our consolidated statements of income.

## Data Center Sale

In December 2016, we entered into a definitive agreement, which was subsequently amended in March 2017, with Equinix, Inc. (Equinix) pursuant to which we agreed to sell 23 customer-facing data center sites in the U.S. and Latin America for approximately \$3.6 billion, subject to certain adjustments (Data Center Sale) . The transaction closed in May 2017.

For the year ended December 31, 2017, these sites generated an insignificant amount of revenues and earnings.

In connection with the Data Center Sale and other insignificant divestitures, we recorded a net gain on sale of divested businesses of approximately \$1.8 billion in Selling, general and administrative expense in our consolidated statement of income for the year ended December 31, 2017.

## Straight Path

In May 2017, we entered into a purchase agreement to acquire Straight Path, a holder of millimeter wave spectrum configured for fifth-generation (5G) wireless services, for total consideration reflecting an enterprise value of approximately \$3.1 billion. Under the terms of the purchase agreement, we agreed to pay: (1) Straight Path shareholders \$184.00 per share, payable in Verizon shares; and (2) certain transaction costs payable in cash of approximately \$736 million, consisting primarily of a fee to be paid to the FCC. The transaction closed in February 2018 at which time we issued approximately 49 million shares of Verizon common stock, valued at approximately \$2.4 billion, and paid the associated cash consideration.

The acquisition of Straight Path was accounted for as an asset acquisition, as substantially all of the value related to the acquired spectrum. Upon closing, we recorded approximately \$4.5 billion of wireless licenses and \$1.4 billion of a deferred tax liability. The spectrum acquired as part of the transaction is being used for our 5G technology deployment. See Note 4 for additional information.

## WideOpenWest, Inc.

In August 2017, we entered into a definitive agreement to purchase certain fiber-optic network assets in the Chicago market from WideOpenWest, Inc. (WOW!), a leading provider of communications services. The transaction closed in December 2017. In addition, the parties entered into a separate agreement pursuant to which WOW! was to complete the build-out of the network assets in 2019. This build-out was completed in 2019. The total cash consideration for the transactions was approximately \$275 million, of which \$226 million was paid in December 2017. During 2019 and 2018, the remaining cash consideration was paid.

## Other

In July 2019, Verizon completed a sale-leaseback transaction for buildings and real estate. See Note 6 for additional information related to the transaction. In connection with this transaction and other insignificant transactions, we recorded a pre-tax net gain from dispositions of assets and businesses of \$261 million in Selling, general and administrative expense in our consolidated statement of income for the year ended December 31, 2019.

During 2019, 2018 and 2017, we completed various other acquisitions for an insignificant amount of cash consideration.

## Note 4. Wireless Licenses, Goodwill and Other Intangible Assets

### Wireless Licenses

The carrying amounts of Wireless licenses are as follows:

	(dollars in millions)			
At December 31,	<b>2019</b>		2018	
Wireless licenses	\$	<b>95,059</b>	\$	94,130

At December 31, 2019 and 2018, approximately \$6.2 billion and \$8.6 billion, respectively, of wireless licenses were under development for commercial service for which we were capitalizing interest costs. We recorded approximately \$321 million and \$515 million of capitalized interest on wireless licenses for each of the years ended December 31, 2019 and 2018, respectively.

For the year ended December 31, 2018, we recorded approximately \$4.5 billion of wireless licenses in connection with the Straight Path acquisition and \$657 million in connection with the NextLink acquisition. See Note 3 for additional information regarding spectrum license transactions in 2019 and 2018.

The average remaining renewal period of our wireless license portfolio was 4.6 years as of December 31, 2019. See Note 1 for additional information.

As discussed in Note 1, we test our wireless licenses for potential impairment annually or more frequently if impairment indicators are present. In 2019, we performed a qualitative assessment to determine whether it was more likely than not that the fair value of our wireless licenses was less than the carrying amount. In 2018, our quantitative impairment test consisted of comparing the estimated fair value of our aggregate wireless licenses estimated using the Greenfield approach to the aggregated carrying amount of the licenses as of the test date. In 2017, we performed a qualitative assessment to determine whether it was more likely than not that the fair value of our wireless licenses was less than the carrying amount. Our assessments in 2019, 2018 and 2017 indicated that the fair value of our wireless licenses exceeded the carrying value and, therefore, did not result in impairment.

## Goodwill

The Company transitioned into our new reporting structure as of April 1, 2019, which resulted in certain changes to our operating segments and reporting units. Upon the date of reorganization, the goodwill of our historical Wireless reporting unit, historical Wireline reporting unit and historical Verizon Connect reporting unit were reallocated to our new Consumer and Business reporting units using a relative fair value approach.

Changes in the carrying amount of Goodwill are as follows:

	(dollars in millions)					
	Consumer	Business	Wireless	Wireline	Other <sup>(2)</sup>	Total
Balance at January 1, 2018	\$ —	\$ —	\$ 18,397	\$ 3,955	\$ 6,820	\$ 29,172
Acquisitions (Note 3)	—	—	—	(77)	225	148
Reclassifications, adjustments and other	—	—	—	(7)	(108)	(115)
Media goodwill impairment	—	—	—	—	(4,591)	(4,591)
Balance at December 31, 2018	—	—	18,397	3,871	2,346	24,614
Acquisitions	—	—	—	20	—	20
Reclassifications, adjustments and other	—	—	—	1	—	1
<b>Balance at March 31, 2019</b>	—	—	<b>18,397</b>	<b>3,892</b>	<b>2,346</b>	<b>24,635</b>
Reporting Unit reallocation <sup>(1)</sup>	<b>17,104</b>	<b>7,269</b>	<b>(18,397)</b>	<b>(3,892)</b>	<b>(2,084)</b>	—
<b>Balance at April 1, 2019</b>	<b>17,104</b>	<b>7,269</b>	—	—	262	<b>24,635</b>
Acquisitions	—	2	—	—	—	2
Media goodwill impairment	—	—	—	—	(186)	(186)
Reclassifications, adjustments and other	—	(2)	—	—	(60)	(62)
<b>Balance at December 31, 2019</b>	<b>\$ 17,104</b>	<b>\$ 7,269</b>	<b>\$ —</b>	<b>\$ —</b>	<b>\$ 16</b>	<b>\$ 24,389</b>

<sup>(1)</sup> Represents the reallocation of goodwill as a result of the Company reorganizing its segments as described in Note 1.

<sup>(2)</sup> Goodwill is net of accumulated impairment charges of \$4.6 billion as of December 31, 2018 and \$4.8 billion as of December 31, 2019, related to our Media reporting unit.

We performed impairment assessments of the impacted reporting units, specifically our historical Wireless, historical Wireline and historical Connect reporting units on March 31, 2019, immediately before our strategic reorganization became effective. Our impairment assessments indicated that the fair value for each of our historical Wireless, historical Wireline and historical Connect reporting units exceeded their respective carrying values, and therefore did not result in a goodwill impairment. We then performed quantitative assessments of our Consumer and Business reporting units on April 1, 2019, immediately following our strategic reorganization. Our impairment assessments indicated that the fair value for each of our Consumer and Business reporting units exceeded their respective carrying values and therefore, did not result in a goodwill impairment. Our Media reporting unit was not impacted by the strategic reorganization and there was no indicator of impairment as of the reorganization date.

We performed qualitative impairment assessments for our Consumer and Business reporting units during the fourth quarter of 2019. Our qualitative assessments indicated that it was more likely than not that the fair values for our Consumer and Business reporting units exceeded their respective carrying values and, therefore, did not result in an impairment. We performed quantitative impairment assessments for our Media reporting unit in 2019 and 2018. For details on our Media reporting unit, refer to the discussion below.

Our Media business, Verizon Media, experienced increased competitive and market pressures throughout 2018 that resulted in lower than expected revenues and earnings. These pressures were expected to continue and have resulted in a loss of market positioning to our competitors in the digital advertising business. Our Media business also achieved lower than expected benefits from the integration of the Yahoo and AOL businesses.

In connection with Verizon's annual budget process during the fourth quarter of 2019 and 2018, the leadership at both Verizon Media and Verizon completed a comprehensive five-year strategic planning review of Verizon Media's business prospects resulting in unfavorable adjustments to Verizon Media's financial projections. These revised projections were used as a key input into Verizon Media's annual goodwill impairment tests performed in the fourth quarter of 2019 and 2018.

During the fourth quarter of 2019 and 2018, consistent with our accounting policy, we applied a combination of a market approach and a discounted cash flow method reflecting current assumptions and inputs, including our revised projections, discount rate and expected growth rates, which resulted in the determination that the fair value of the Media reporting unit was less than its carrying amount. As a result, we recorded a non-cash goodwill impairment charge of approximately \$186 million (\$176 million after-tax) in the fourth quarter of 2019 and a charge of \$4.6 billion (\$4.5 billion after-tax) in the fourth quarter of 2018 in our consolidated statements of income. The goodwill balance of the Media reporting unit has been fully written off as a result of these impairment charges.

We performed a quantitative impairment assessment for all of the other reporting units in 2018. Our impairment tests indicated that the fair value for each of our historical Wireless, historical Wireline and historical Connect reporting units exceeded their respective carrying value and, therefore, did not result in an impairment.

For 2017, we performed a quantitative impairment assessment for all of our reporting units, except for our historical Wireless reporting unit, for which a qualitative assessment was completed. For 2017, our impairment tests indicated that the fair value for each of our reporting units exceeded their respective carrying value and therefore, did not result in goodwill impairment.

## Other Intangible Assets

The following table displays the composition of Other intangible assets, net as well as the respective amortization period:

At December 31,	(dollars in millions)					
	2019			2018		
	Gross Amount	Accumulated Amortization	Net Amount	Gross Amount	Accumulated Amortization	Net Amount
Customer lists (8 to 13 years)	\$ 3,896	\$ (1,511)	\$ 2,385	\$ 3,951	\$ (1,121)	\$ 2,830
Non-network internal-use software (3 to 7 years)	20,530	(14,418)	6,112	18,603	(12,785)	5,818
Other (2 to 25 years)	1,967	(966)	1,001	1,988	(861)	1,127
<b>Total</b>	<b>\$ 26,393</b>	<b>\$ (16,895)</b>	<b>\$ 9,498</b>	<b>\$ 24,542</b>	<b>\$ (14,767)</b>	<b>\$ 9,775</b>

The amortization expense for Other intangible assets was as follows:

Years	(dollars in millions)
<b>2019</b>	<b>\$ 2,311</b>
2018	2,217
2017	2,213

Estimated annual amortization expense for Other intangible assets is as follows:

Years	(dollars in millions)
<b>2020</b>	<b>\$ 2,235</b>
2021	1,931
2022	1,651
2023	1,317
2024	968

## Note 5. Property, Plant and Equipment

The following table displays the details of Property, plant and equipment, which is stated at cost:

		(dollars in millions)	
At December 31,	Lives (years)	2019	2018
Land	-	\$ 594	\$ 807
Buildings and equipment	7 to 45	31,216	30,468
Central office and other network equipment	3 to 50	152,733	147,250
Cable, poles and conduit	7 to 50	52,658	49,859
Leasehold improvements	5 to 20	9,072	8,580
Work in progress	-	9,234	6,362
Furniture, vehicles and other	3 to 20	10,227	9,509
		265,734	252,835
Less accumulated depreciation		173,819	163,549
<b>Property, plant and equipment, net</b>		<b>\$ 91,915</b>	<b>\$ 89,286</b>

## Note 6. Leasing Arrangements

We enter into various lease arrangements for network equipment including towers, distributed antenna systems, small cells, real estate and connectivity mediums including dark fiber, equipment, and other various types of assets for use in our operations. Our leases have remaining lease terms ranging from 1 year to 28 years, some of which include options that we can elect to extend the leases term for up to 25 years, and some of which include options to terminate the leases. For the majority of leases entered into during the current period, we have concluded it is not reasonably certain that we would exercise the options to extend the lease or terminate the lease. Therefore, as of the lease commencement date, our lease terms generally do not include these options. We include options to extend the lease when it is reasonably certain that we will exercise that option.

During March 2015, we completed a transaction with American Tower Corporation (American Tower) pursuant to which American Tower acquired the exclusive rights to lease and operate approximately 11,300 of our wireless towers for an upfront payment of \$5.0 billion. We have subleased capacity on the towers from American Tower for a minimum of 10 years at current market rates in 2015, with options to renew. We continue to include the towers in Property, plant and equipment, net in our consolidated balance sheets and depreciate them accordingly. In addition to the rights to lease and operate the towers, American Tower assumed the interest in the underlying ground leases related to these towers. While American Tower can renegotiate the terms of and is responsible for paying the ground leases, we are still the primary obligor for these leases and accordingly, the present value of these ground leases are included in our operating lease right-of-use assets and operating lease liabilities. We do not expect to be required to make ground lease payments unless American Tower defaults, which we determined to be remote.

The components of net lease cost were as follows:

Year Ended December 31,	Classification	(dollars in millions)	
		2019	
Operating lease cost <sup>(1)</sup>	Cost of services		
	Selling, general and administrative expense	\$	4,746
Finance lease cost:			
Amortization of right-of-use assets	Depreciation and amortization expense		330
Interest on lease liabilities	Interest expense		38
Short-term lease cost <sup>(1)</sup>	Cost of services		
	Selling, general and administrative expense		40
Variable lease cost <sup>(1)</sup>	Cost of services		
	Selling, general and administrative expense		218
Sublease income	Service revenues and other		(275)
<b>Total net lease cost</b>		<b>\$</b>	<b>5,097</b>
<b>Gain on sale and leaseback transaction, net</b>	Selling, general and administrative expense	<b>\$</b>	<b>(391)</b>

<sup>(1)</sup> All operating lease costs, including short-term and variable lease costs, are split between Cost of services and Selling, general and administrative expense in the consolidated statements of income based on the use of the facility or equipment that the rent is being paid on. See Note 1 for additional information. Variable lease costs represent payments that are dependent on a rate or index, or on usage of the asset.

Supplemental disclosure for the statement of cash flows related to operating and finance leases were as follows:

	(dollars in millions)
Year Ended December 31,	<b>2019</b>
<b>Cash Flows from Operating Activities</b>	
Cash paid for amounts included in the measurement of lease liabilities	
Operating cash flows for operating leases	\$ (4,392)
Operating cash flows for finance leases	(38)
<b>Cash Flows from Financing Activities</b>	
Financing cash flows for finance leases	(352)
<b>Supplemental lease cash flow disclosures</b>	
Operating lease right-of-use assets obtained in exchange for new operating lease liabilities	3,510
Right-of-use assets obtained in exchange for new finance lease liabilities	564

Supplemental disclosures for the balance sheet related to finance leases were as follows:

	(dollars in millions)
At December 31,	<b>2019</b>
<b>Assets</b>	
Property, plant and equipment, net	\$ 939
<b>Liabilities</b>	
Debt maturing within one year	\$ 336
Long-term debt	780
<b>Total Finance lease liabilities</b>	<b>\$ 1,116</b>

The weighted-average remaining lease term and the weighted-average discount rate of our leases were as follows:

At December 31,	<b>2019</b>
<b>Weighted-average remaining lease term (years)</b>	
Operating Leases	9
Finance Leases	5
<b>Weighted-average discount rate</b>	
Operating Leases	4.0%
Finance Leases	3.2%

The Company's maturity analysis of operating and finance lease liabilities as of December 31, 2019 were as follows:

	(dollars in millions)	
<b>Years</b>	<b>Operating Leases</b>	<b>Finance Leases</b>
2020	\$ 4,099	\$ 366
2021	3,764	271
2022	3,363	208
2023	3,001	152
2024	2,484	92
Thereafter	9,257	124
<b>Total lease payments</b>	<b>25,968</b>	<b>1,213</b>
Less interest	4,314	97
<b>Present value of lease liabilities</b>	<b>21,654</b>	<b>1,116</b>
Less current obligation	3,261	336
<b>Long-term obligation at December 31, 2019</b>	<b>\$ 18,393</b>	<b>\$ 780</b>

As of December 31, 2019, we have contractually obligated lease payments amounting to \$1.9 billion for office facility operating leases and small cell colocation and fiber operating leases that have not yet commenced. We have legally obligated lease payments for various other operating leases that have not yet commenced for which the total obligation was not significant. We have certain rights and obligations for these leases, but have not recognized an operating lease right-of-use asset or an operating lease liability since they have not yet commenced.



## Real Estate Transaction

On July 23, 2019, Verizon completed a sale-leaseback transaction for buildings and real estate. We received total gross proceeds of approximately \$1.0 billion. We leased back a portion of the buildings and real estate sold and accounted for it as an operating lease. The term of the leaseback is for two years with four options to renew for an additional three months each. The proceeds received as a result of this transaction have been classified in Other, net within Cash Flows from Investing Activities in our consolidated statement of cash flows for the year ended December 31, 2019. The net gain as a result of this transaction is included in the components of net lease cost table above.

## Disclosures Related to Periods Prior to Adoption of Topic 842

Total rent expense under operating leases amounted to \$4.1 billion in 2018 and \$3.8 billion in 2017.

Amortization of capital leases was included in Depreciation and amortization expense in the consolidated statements of income. Capital lease amounts included in Property, plant and equipment were as follows:

		(dollars in millions)
At December 31,		2018
Capital leases	\$	1,756
Less accumulated amortization		998
<b>Total</b>	<b>\$</b>	<b>758</b>

## Note 7. Debt

Outstanding long-term debt obligations as of December 31, 2019 and 2018 are as follows:

				(dollars in millions)	
At December 31,	Maturities	Interest Rates %		2019	2018
Verizon Communications	2019-2024	1.38 – 5.51	\$	19,885	\$ 24,242
	2025-2029	1.38 – 6.80		30,038	23,711
	2030-2055	2.65 – 8.95		47,777	54,662
	2019-2024	Floating <sup>(1)</sup>		2,210	2,868
	2025-2029	Floating <sup>(1)</sup>		1,789	1,789
Alltel Corporation	2025-2029	6.80		38	116
	2030-2055	7.88		58	118
Operating telephone company subsidiaries—debentures	2019-2024	7.88 – 8.00		141	147
	2025-2029	6.00 – 8.38		286	288
	2030-2055	5.13 – 8.75		339	361
GTE LLC	2019-2024	8.75		141	178
	2025-2029	6.94		250	266
Other subsidiaries—asset-backed debt	2019-2024	1.42 – 3.56		8,116	7,962
	2019-2024	Floating <sup>(1)</sup>		4,277	2,139
Finance lease obligations (average rate of 3.2% and 4.1% in 2019 and 2018, respectively)				1,116	905
Unamortized discount, net of premium				(4,480)	(6,298)
Unamortized debt issuance costs				(492)	(541)
<b>Total long-term debt, including current maturities</b>				<b>111,489</b>	<b>112,913</b>
Less long-term debt maturing within one year				<b>10,777</b>	<b>7,040</b>
<b>Total long-term debt</b>			<b>\$</b>	<b>100,712</b>	<b>\$ 105,873</b>
Total long-term debt, including current maturities			\$	111,489	\$ 112,913
Plus short-term notes payable				—	150
<b>Total debt</b>			<b>\$</b>	<b>111,489</b>	<b>\$ 113,063</b>

<sup>(1)</sup> The debt obligations bore interest at a floating rate based on the London Interbank Offered Rate (LIBOR) plus an applicable interest margin per annum.

Maturities of long-term debt (secured and unsecured) outstanding, including current maturities, excluding unamortized debt issuance costs, at December 31, 2019 are as follows:

Years	(dollars in millions)	
2020	\$	10,470
2021		7,269
2022		9,162
2023		5,591
2024		4,212
Thereafter		74,161

During 2019, we received \$18.7 billion of proceeds from long-term borrowings, which included \$8.6 billion of proceeds from asset-backed debt transactions. The net proceeds were used for general corporate purposes including the repayment of debt. We used \$23.9 billion of cash to repay, redeem and repurchase long-term borrowings and finance lease obligations, including \$6.3 billion to prepay and repay asset-backed, long-term borrowings.

During 2018, we received \$10.8 billion of proceeds from long-term borrowings, which included \$4.8 billion of proceeds from asset-backed debt transactions. The net proceeds were used for general corporate purposes including the repayment of debt. We used \$14.6 billion of cash to repay, redeem and repurchase long-term borrowings and finance lease obligations, including \$3.6 billion to prepay and repay asset-backed, long-term borrowings.

### 2019 Significant Debt Transactions

The following tables show the significant transactions involving the senior unsecured debt securities of Verizon and its subsidiaries that occurred during the year ended December 31, 2019.

#### Exchange Offers

(dollars in millions)	Principal Amount Exchanged	Principal Amount Issued
Verizon 1.750% - 5.150% notes and floating rate notes, due 2021 - 2025	\$ 3,892	\$ —
GTE LLC 8.750% debentures, due 2021	21	—
Verizon 4.016% notes due 2029 <sup>(1)</sup>	—	4,000
<b>Total</b>	<b>\$ 3,913</b>	<b>\$ 4,000</b>

<sup>(1)</sup> The principal amount issued in exchange does not include either an insignificant amount of cash paid in lieu of the issuance of fractional new notes or accrued and unpaid interest paid on the old notes accepted for exchange to the date of exchange.

#### Tender Offers

(dollars in millions)	Principal Amount Purchased	Cash Consideration <sup>(1)</sup>
Verizon 4.672% - 5.012% notes due 2054 - 2055	\$ 4,500	\$ 5,030
Verizon 3.850% - 6.550% notes due 2039 - 2055	3,816	4,828
Verizon and other subsidiaries 5.050% - 8.950% notes and debentures due 2021 - 2041	593	837
<b>Total</b>	<b>\$ 8,909</b>	<b>\$ 10,695</b>

<sup>(1)</sup> The total cash consideration includes the tender offer consideration, plus any accrued and unpaid interest to the date of purchase.

## Redemptions, Repurchases and Repayments

(dollars in millions)	Principal Redeemed/ Repurchased/ Repaid	Amount Paid as % of Principal <sup>(1)</sup>
Verizon 5.900% notes due 2054	\$ 500	100.000%
Verizon 1.375% notes due 2019	206	100.000%
Verizon 1.750% notes due 2021	621	100.000%
Verizon 3.000% notes due 2021	930	101.061%
Verizon 3.500% notes due 2021	315	102.180%
Verizon 2.625% notes due 2020	831	100.037%
Verizon 3.500% notes due 2021	736	102.238%
Verizon floating rate (LIBOR + 0.770%) notes due 2019	229	100.000%
Verizon 4.200% notes due 2046	2,059	100.000%
Verizon floating rate (LIBOR + 0.370%) notes due 2019	306	100.000%
Verizon 2.600% - 4.300% Internotes due 2022 - 2029	201	100.000%
Open market repurchases of various Verizon notes	543	Various
<b>Total</b>	<b>\$ 7,477</b>	

<sup>(1)</sup> Percentages represent price paid to redeem, repurchase and repay.

In February 2020, we redeemed, in whole, approximately \$1.5 billion aggregate principal amount of 4.95% Notes due 2047.

## Issuances

(dollars in millions)	Principal Amount Issued	Net Proceeds <sup>(1)</sup>
Verizon 3.875% notes due 2029 <sup>(2)</sup>	\$ 1,000	\$ 994
Verizon 5.000% notes due 2051	\$ 510	506
Verizon 0.875% notes due 2027	€ 1,250	1,391
Verizon 1.250% notes due 2030	€ 1,250	1,385
Verizon 2.500% notes due 2031	£ 500	647
Verizon 0.875% notes due 2032	€ 800	882
Verizon 1.500% notes due 2039	€ 500	545
Verizon 1.875% notes due 2030	£ 550	672
Verizon 2.100% notes due 2026	A\$ 450	307
Verizon 2.650% notes due 2030	A\$ 300	205
Verizon 3.500% notes due 2039	A\$ 500	341
<b>Total</b>		<b>\$ 7,875</b>

<sup>(1)</sup> Net proceeds were net of discount and issuance costs.

<sup>(2)</sup> An amount equal to the net proceeds from this green bond will be used to fund, in whole or in part, "Eligible Green Investments." "Eligible Green Investments" include new and existing investments made by us during the period from two years prior to the issuance of the green bond through the maturity date of the green bond, in the following categories: (1) renewable energy; (2) energy efficiency; (3) green buildings; (4) sustainable water management; and (5) biodiversity and conservation.

## Short-Term Borrowing and Commercial Paper Program

In July 2018, we entered into a short-term uncommitted credit facility with the ability to borrow up to \$700 million. As of December 31, 2019 and 2018, there was no outstanding balance.

As of December 31, 2019 and 2018, we had no commercial paper outstanding.

## Asset-Backed Debt

As of December 31, 2019, the carrying value of our asset-backed debt was \$12.4 billion. Our asset-backed debt includes Asset-Backed Notes (ABS Notes) issued to third-party investors (Investors) and loans (ABS Financing Facilities) received from banks and their conduit facilities (collectively, the Banks). Our consolidated asset-backed debt bankruptcy remote legal entities (each, an ABS Entity or collectively, the ABS Entities) issue the debt or are otherwise party to the transaction documentation in connection with our asset-backed debt transactions. Under the terms of our asset-backed debt, Cellco Partnership (Cellco) and certain other affiliates of Verizon (collectively, the Originators) transfer device payment plan agreement receivables to one of the ABS Entities, which in turn transfers such receivables to another ABS Entity that issues the debt. Verizon entities retain the equity interests in the ABS Entities, which represent the rights to all funds not needed to make required payments on the asset-backed debt and other related payments and expenses.

Our asset-backed debt is secured by the transferred device payment plan agreement receivables and future collections on such receivables. The device payment plan agreement receivables transferred to the ABS Entities and related assets, consisting primarily of restricted cash, will only be available for payment of asset-backed debt and expenses related thereto, payments to the Originators in respect of additional transfers of device payment plan agreement receivables, and other obligations arising from our asset-backed debt transactions, and will not be available to pay other obligations or claims of Verizon's creditors until the associated asset-backed debt and other obligations are satisfied. The Investors or Banks, as applicable, which hold our asset-backed debt have legal recourse to the assets securing the debt, but do not have any recourse to Verizon with respect to the payment of principal and interest on the debt. Under a parent support agreement, Verizon has agreed to guarantee certain of the payment obligations of Cellco and the Originators to the ABS Entities.

Cash collections on the device payment plan agreement receivables collateralizing our asset-backed debt securities are required at certain specified times to be placed into segregated accounts. Deposits to the segregated accounts are considered restricted cash and are included in Prepaid expenses and other, and Other assets in our consolidated balance sheets.

Proceeds from our asset-backed debt transactions are reflected in Cash flows from financing activities in our consolidated statements of cash flows. The asset-backed debt issued and the assets securing this debt are included in our consolidated balance sheets.

## ABS Notes

During the year ended December 31, 2019, we completed the following ABS Notes transactions:

(dollars in millions)	Interest Rates %	Expected Weighted-average Life to Maturity (in years)	Principal Amount Issued
<b>March 2019</b>			
A-1a Senior class notes	2.930	2.50	\$ 900
A-1b Senior floating rate class notes	LIBOR + 0.330 <sup>(1)</sup>	2.50	100
B Junior class notes	3.020	3.22	69
C Junior class notes	3.220	3.40	53
<b>March 2019 total</b>			<b>1,122</b>
<b>June 2019</b>			
A-1a Senior class notes	2.330	2.52	855
A-1b Senior floating rate class notes	LIBOR + 0.450 <sup>(1)</sup>	2.52	145
B Junior class notes	2.400	3.28	69
C Junior class notes	2.600	3.47	53
<b>June 2019 total</b>			<b>1,122</b>
<b>October 2019</b>			
A-1a Senior class notes	1.940	2.51	1,276
A-1b Senior floating rate class notes	LIBOR + 0.420 <sup>(1)</sup>	2.51	150
B Junior class notes	2.060	3.23	98
C Junior class notes	2.160	3.41	76
<b>October 2019 total</b>			<b>1,600</b>
<b>Total</b>			<b>\$ 3,844</b>

<sup>(1)</sup> The one-month LIBOR at December 31, 2019 was 1.763%.

Under the terms of each series of ABS Notes, there is a two year revolving period during which we may transfer additional receivables to the ABS Entity. In April, July and November 2019, the two year revolving period of the ABS Notes we issued in March, June and October 2017, respectively, ended, and we began to repay principal on the 2017-1, 2017-2 and 2017-3 Class A senior ABS Notes. In October 2019, in connection with an optional acquisition of receivables and redemption of 2016-1 Notes, we made a principal payment, in whole, for an insignificant amount. During the year ended December 31, 2019, we made aggregate principal repayments of \$3.3 billion, for all ABS Notes.

In January 2020, we issued \$1.6 billion aggregate principal amount of senior and junior Asset-Backed Notes through an ABS Entity.

## ABS Financing Facility

In May 2018, we entered into an ABS financing facility with a number of financial institutions (2018 ABS Financing Facility). One loan agreement was entered into in connection with the 2018 ABS Financing Facility. In May 2019, the \$540 million outstanding under the loan agreement was prepaid, and the loan agreement was terminated.

In September 2016, we entered into an ABS financing facility with a number of financial institutions (2016 ABS Financing Facility). Two loan agreements were entered into in connection with the 2016 ABS Financing Facility in September 2016 and May 2017. In April and May 2019, we paid off both the 2016 and 2017 loans for an aggregate of \$671 million, and the loan agreements were terminated.

In May 2019, the 2016 ABS Financing Facility was amended and restated (2019 ABS Financing Facility). Under the terms of the 2019 ABS Financing Facility, which is an uncommitted facility, the financial institutions make advances under asset-backed loans backed by device payment plan agreement receivables of both consumer and business customers. One loan agreement was entered into in connection with the 2019 ABS Financing Facility. The 2019 loan agreement has a final maturity date in May 2023 and bears interest at floating rates. There is a one year revolving period until May 2020, which may be extended with the approval of the financial institutions. Under the 2019 loan agreement, we have the right to prepay all or a portion of the advances at any time without penalty, but in certain cases, with breakage costs. Subject to certain conditions, we may also remove receivables from the ABS Entity. In May 2019, we borrowed \$1.8 billion under the 2019 loan agreement. In August 2019, we prepaid \$1.5 billion of the loan made in May 2019 under the 2019 loan agreement. In November 2019, we borrowed an additional \$1.5 billion under the 2019 loan agreement. In December 2019, the 2019 loan agreement was amended to increase the facility by an additional \$1.5 billion, and an additional \$1.5 billion was borrowed under the 2019 loan agreement. The aggregate outstanding balance under the 2019 ABS Financing Facility was \$3.3 billion as of December 31, 2019. In January 2020, we prepaid \$1.3 billion of the loan under the 2019 loan agreement.

### Variable Interest Entities

The ABS Entities meet the definition of a VIE for which we have determined that we are the primary beneficiary as we have both the power to direct the activities of the entity that most significantly impact the entity's performance and the obligation to absorb losses or the right to receive benefits of the entity. Therefore, the assets, liabilities and activities of the ABS Entities are consolidated in our financial results and are included in amounts presented on the face of our consolidated balance sheets.

The assets and liabilities related to our asset-backed debt arrangements included in our consolidated balance sheets were as follows:

(dollars in millions)	At December 31, 2019	At December 31, 2018
<b>Assets</b>		
Accounts receivable, net	\$ 10,525	\$ 8,861
Prepaid expenses and other	1,180	989
Other assets	3,856	2,725
<b>Liabilities</b>		
Accounts payable and accrued liabilities	11	7
Debt maturing within one year	5,578	5,352
Long-term debt	6,791	4,724

See Note 8 for additional information on device payment plan agreement receivables used to secure asset-backed debt.

### Long-Term Credit Facilities

(dollars in millions)	Maturities	Facility Capacity	At December 31, 2019	
			Unused Capacity	Principal Amount Outstanding
Verizon revolving credit facility <sup>(1)</sup>	2022	\$ 9,500	\$ 9,390	N/A
Various export credit facilities <sup>(2)</sup>	2022-2027	5,500	—	4,471
<b>Total</b>		<b>\$ 15,000</b>	<b>\$ 9,390</b>	<b>\$ 4,471</b>

<sup>(1)</sup> The revolving credit facility does not require us to comply with financial covenants or maintain specified credit ratings, and it permits us to borrow even if our business has incurred a material adverse change. The revolving credit facility provides for the issuance of letters of credit.

<sup>(2)</sup> During 2019 and 2018, we drew down \$1.5 billion and \$3.0 billion from these facilities, respectively. We use these credit facilities to finance equipment-related purchases.

### Non-Cash Transaction

During the years ended December 31, 2019, 2018 and 2017, we financed, primarily through vendor financing arrangements, the purchase of approximately \$563 million, \$1.1 billion, and \$501 million, respectively, of long-lived assets consisting primarily of network equipment. At both December 31, 2019 and 2018, \$1.1 billion relating to these financing arrangements, including those entered into in prior years and liabilities assumed through acquisitions, remained outstanding. These purchases are non-cash financing activities and therefore are not reflected within Capital expenditures in our consolidated statements of cash flows.

### Early Debt Redemptions

During 2019, 2018 and 2017, we recorded losses on early debt redemptions of \$3.7 billion, \$681 million, and \$2.0 billion, respectively.

We recognize losses on early debt redemptions in Other income (expense), net, in our consolidated statements of income. The total losses are reflected as an adjustment to reconcile net income to Net cash used in operating activities and the portion of the losses representing cash payments are reflected within Net cash used in financing activities in our consolidated statements of cash flows.

## Guarantees

We guarantee the debentures of our operating telephone company subsidiaries. As of December 31, 2019, \$765 million aggregate principal amount of these obligations remained outstanding. Each guarantee will remain in place for the life of the obligation unless terminated pursuant to its terms, including the operating telephone company no longer being a wholly-owned subsidiary of Verizon.

We also guarantee the debt obligations of GTE LLC as successor in interest to GTE Corporation that were issued and outstanding prior to July 1, 2003. As of December 31, 2019, \$391 million aggregate principal amount of these obligations remain outstanding.

## Debt Covenants

We and our consolidated subsidiaries are in compliance with all of our restrictive covenants in our debt agreements.

### Note 8. Wireless Device Payment Plans

Under the Verizon device payment program, our eligible wireless customers purchase wireless devices under a device payment plan agreement. Customers that activate service on devices purchased under the device payment program pay lower service fees as compared to those under our fixed-term service plans, and their device payment plan charge is included on their wireless monthly bill. As of January 2017, we no longer offer Consumer customers new fixed-term, subsidized service plans for phones; however, we continue to offer subsidized plans to our Business customers. We also continue to service existing plans for customers who have not yet purchased and activated devices under the Verizon device payment program.

## Wireless Device Payment Plan Agreement Receivables

The following table displays device payment plan agreement receivables, net, that are recognized in our consolidated balance sheets:

	(dollars in millions)	
At December 31,	2019	2018
Device payment plan agreement receivables, gross	\$ 19,493	\$ 19,313
Unamortized imputed interest	(454)	(546)
Device payment plan agreement receivables, net of unamortized imputed interest	19,039	18,767
Allowance for credit losses	(472)	(597)
<b>Device payment plan agreement receivables, net</b>	<b>\$ 18,567</b>	<b>\$ 18,170</b>
<b>Classified in our consolidated balance sheets:</b>		
Accounts receivable, net	\$ 13,045	\$ 12,624
Other assets	5,522	5,546
<b>Device payment plan agreement receivables, net</b>	<b>\$ 18,567</b>	<b>\$ 18,170</b>

Included in our device payment plan agreement receivables, net at December 31, 2019 and December 31, 2018, are net device payment plan agreement receivables of \$14.3 billion and \$11.5 billion, respectively, which have been transferred to ABS Entities and continue to be reported in our consolidated balance sheets. See Note 7 for additional information. We believe the carrying value of our installment loans receivables approximate their fair value using a Level 3 expected cash flow model.

We may offer certain promotions that allow a customer to trade in their owned device in connection with the purchase of a new device. Under these types of promotions, the customer receives a credit for the value of the trade-in device. In addition, we may provide the customer with additional future credits that will be applied against the customer's monthly bill as long as service is maintained. We recognize a liability for the customer's right to trade-in the device measured at fair value, which is determined by considering several factors, including the weighted-average selling prices obtained in recent resales of similar devices eligible for trade-in. Future credits are recognized when earned by the customer. Device payment plan agreement receivables, net does not reflect the trade-in device liability. At December 31, 2019 and December 31, 2018, the amount of trade-in liability was \$103 million and \$64 million, respectively.

From time to time, we offer certain marketing promotions that allow our customers to upgrade to a new device after paying down a certain specified portion of the required device payment plan agreement amount, as well as trading in their device in good working order. When a customer enters into a device payment plan agreement with the right to upgrade to a new device, we account for this trade-in right as a guarantee obligation.

For indirect channel wireless contracts with customers, we impute risk adjusted interest on the device payment plan agreement receivables. We record the imputed interest as a reduction to the related accounts receivable. Interest income, which is included within Service revenues and

other in our consolidated statements of income, is recognized over the financed device payment term. See Note 2 for additional information on financing considerations with respect to wireless direct channel contracts with customers.

When originating device payment plan agreements for Consumer customers, we use internal and external data sources to create a credit risk score to measure the credit quality of a customer and to determine eligibility for the device payment program. If a customer is either new to Verizon or has 45 days or less of customer tenure with Verizon, the credit decision process relies more heavily on external data sources. If the customer has more than 45 days of customer tenure with Verizon (an existing customer), the credit decision process relies on a combination of internal and external data sources. External data sources include obtaining a credit report from a national consumer credit reporting agency, if available. Verizon uses its internal data and/or credit data obtained from the credit reporting agencies to create a custom credit risk score. The custom credit risk score is generated automatically (except with respect to a small number of applications where the information needs manual intervention) from the applicant's credit data using Verizon's proprietary custom credit models, which are empirically derived and demonstrably and statistically sound. The credit risk score measures the likelihood that the potential customer will become severely delinquent and be disconnected for non-payment. For a small portion of new customer applications, a traditional credit report is not available from one of the national credit reporting agencies because the potential customer does not have sufficient credit history. In those instances, alternate credit data is used for the risk assessment.

Based on the custom credit risk score, we assign each customer to a credit class, each of which has specified offers of credit including an account level spending limit and either a maximum amount of credit allowed per device or a required down payment percentage. During the fourth quarter of 2018, Verizon moved all Consumer customers, new and existing, from a required down payment percentage, between zero and 100%, to a maximum amount of credit per device.

Subsequent to origination, Verizon monitors delinquency and write-off experience as key credit quality indicators for its portfolio of device payment plan agreements and fixed-term service plans. The extent of our collection efforts with respect to a particular customer are based on the results of proprietary custom empirically derived internal behavioral scoring models that analyze the customer's past performance to predict the likelihood of the customer falling further delinquent. These customer scoring models assess a number of variables, including origination characteristics, customer account history and payment patterns. Based on the score derived from these models, accounts are grouped by risk category to determine the collection strategy to be applied to such accounts. We continuously monitor collection performance results and the credit quality of our device payment plan agreement receivables based on a variety of metrics, including aging. Verizon considers an account to be delinquent and in default status if there are unpaid charges remaining on the account on the day after the bill's due date.

The balance and aging of the device payment plan agreement receivables on a gross basis were as follows:

	(dollars in millions)	
At December 31,	2019	2018
Unbilled	\$ 18,203	\$ 18,043
Billed:		
Current	1,002	986
Past due	288	284
<b>Device payment plan agreement receivables, gross</b>	<b>\$ 19,493</b>	<b>\$ 19,313</b>

Activity in the allowance for credit losses for the device payment plan agreement receivables was as follows:

	(dollars in millions)	
	2019	2018
Balance at January 1,	\$ 597	\$ 848
Bad debt expense	915	459
Write-offs	(1,040)	(710)
<b>Balance at December 31,</b>	<b>\$ 472</b>	<b>\$ 597</b>

### Sales of Wireless Device Payment Plan Agreement Receivables

In 2015 and 2016, we established programs pursuant to a Receivables Purchase Agreement (RPA) to sell from time to time, on an uncommitted basis, eligible device payment plan agreement receivables to a group of primarily relationship banks (Purchasers) on both a revolving and non-revolving basis, collectively the Programs. Under the Programs, eligible device payment plan agreement receivables were transferred to the Purchasers for upfront cash proceeds and additional consideration upon settlement of the receivables, referred to as the deferred purchase price. In December 2017, the RPA and all other related transaction documents were terminated and as of December 31, 2017 we had no further continuing involvement with any of the receivables sold under the RPA program.

There were no sales of device payment plan agreement receivables under the Programs during 2017.

### Deferred Purchase Price

Collections of deferred purchase price were \$1.4 billion during 2017. During 2017, we repurchased all outstanding receivables previously sold to the Purchasers in exchange for the obligation to pay the associated deferred purchase price to the wholly-owned subsidiaries that were bankruptcy remote special purpose entities (Sellers). At December 31, 2017, our deferred purchase price receivable was fully satisfied. Collections

Fixed income securities consist primarily of investments in municipal bonds. For fixed income securities that do not have quoted prices in active markets, we use alternative matrix pricing resulting in these debt securities being classified as Level 2.



Derivative contracts are valued using models based on readily observable market parameters for all substantial terms of our derivative contracts and thus are classified within Level 2. We use mid-market pricing for fair value measurements of our derivative instruments. Our derivative instruments are recorded on a gross basis.

We recognize transfers between levels of the fair value hierarchy as of the end of the reporting period. There were no transfers between Level 1 and Level 2 during 2019 and 2018.

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

The fair value of our debt is determined using various methods, including quoted prices for identical terms and maturities, which is a Level 1 measurement, as well as quoted prices for similar terms and maturities in inactive markets and future cash flows discounted at current rates, which are Level 2 measurements. The fair value of our short-term and long-term debt, excluding finance leases, was as follows:

		(dollars in millions)			
At December 31,		2019		2018	
		Carrying Amount	Fair Value	Carrying Amount	Fair Value
Short- and long-term debt, excluding finance leases	\$	110,373	\$ 129,200	\$ 112,159	\$ 118,535

### Derivative Instruments

The following table sets forth the notional amounts of our outstanding derivative instruments:

		(dollars in millions)	
At December 31,		2019	2018
Interest rate swaps	\$	17,004	\$ 19,813
Cross currency swaps		23,070	16,638
Forward starting interest rate swaps		3,000	4,000
Interest rate caps		679	2,218
Foreign exchange forwards		1,130	600

### Interest Rate Swaps

We enter into interest rate swaps to achieve a targeted mix of fixed and variable rate debt. We principally receive fixed rates and pay variable rates that are currently based on LIBOR, resulting in a net increase or decrease to Interest expense. These swaps are designated as fair value hedges and hedge against interest rate risk exposure of designated debt issuances. We record the interest rate swaps at fair value in our consolidated balance sheets as assets and liabilities. Changes in the fair value of the interest rate swaps are recorded to Interest expense, which are offset by changes in the fair value of the hedged debt due to changes in interest rates.

During 2019, we entered into interest rate swaps with a total notional value of \$510 million and settled interest rate swaps with a total notional value of \$3.3 billion. During 2018, we entered into interest rate swaps with a total notional value of \$730 million and settled interest rate swaps with a total notional value of \$1.1 billion.

The ineffective portion of these interest rate swaps was \$54 million and insignificant for the years ended December 31, 2019 and 2018, respectively.

The following amounts were recorded in Long-term debt in our consolidated balance sheets related to cumulative basis adjustments for fair value hedges:

		(dollars in millions)	
At December 31,		2019	2018
Carrying amount of hedged liabilities	\$	17,337	\$ 18,903
Cumulative amount of fair value hedging adjustment included in the carrying amount of the hedged liabilities		433	(785)

### Cross Currency Swaps

We have entered into cross currency swaps designated as cash flow hedges to exchange our British Pound Sterling, Euro, Swiss Franc and Australian Dollar-denominated cash flows into U.S. dollars and to fix our cash payments in U.S. dollars, as well as to mitigate the impact of foreign currency transaction gains or losses.

During 2019, we entered into cross currency swaps with a total notional value of \$6.4 billion and did not settle any cross currency swaps. A pre-tax loss of \$385 million was recognized in Other comprehensive loss with respect to these swaps.

During 2018, we did not enter into or settle any cross currency swaps. A pre-tax loss of \$720 million was recognized in Other comprehensive loss with respect to these swaps.

A portion of the losses recognized in Other comprehensive loss was reclassified to Other income (expense), net to offset the related pre-tax foreign currency transaction gain or loss on the underlying hedged item.

### **Forward Starting Interest Rate Swaps**

We have entered into forward starting interest rate swaps designated as cash flow hedges in order to manage our exposure to interest rate changes on future forecasted transactions.

During 2019, we did not enter into any forward starting interest rate swaps and we settled forward starting interest rate swaps with a total notional value of \$1.0 billion. A pre-tax loss of \$565 million, resulting from interest rate movements was recognized in Other comprehensive loss with respect to these swaps.

During 2018, we entered into forward starting interest rate swaps with a total notional value of \$4.0 billion. A pre-tax loss of \$60 million was recognized in Other comprehensive loss with respect to these swaps.

We hedge our exposure to the variability in future cash flows of based on the expected maturities of the related forecasted debt issuance.

### **Net Investment Hedges**

We have designated certain foreign currency instruments as net investment hedges to mitigate foreign exchange exposure related to non-U.S. dollar net investments in certain foreign subsidiaries against changes in foreign exchange rates. The notional amount of the Euro-denominated debt as a net investment hedge was €750 million as of both December 31, 2019 and 2018, respectively.

### **Undesignated Derivatives**

We also have the following derivative contracts which we use as economic hedges but for which we have elected not to apply hedge accounting.

### **Interest Rate Caps**

We enter into interest rate caps to mitigate our interest exposure to interest rate increases on our ABS Financing Facility and ABS Notes. During both 2019 and 2018, we recognized an insignificant amount in Interest expense related to interest rate caps.

### **Foreign Exchange Forwards**

We enter into British Pound Sterling and Euro foreign exchange forwards to mitigate our foreign exchange rate risk related to non-functional currency denominated monetary assets and liabilities of international subsidiaries. During 2019, we entered into foreign exchange forwards with a total notional value of \$12.0 billion and settled foreign exchange forwards with a total notional value of \$11.5 billion. During 2018, we entered into foreign exchange forwards with a total notional value of \$2.8 billion and settled foreign exchange forwards with a total notional value of \$2.2 billion. During 2019 and 2018, a pre-tax loss of insignificant amount was recognized in Other income (expense), net.

### **Treasury Rate Locks**

During 2019, we entered into treasury rate locks with a total notional value of \$1.5 billion to hedge the tender offers conducted in May 2019 for fifteen series of notes issued by Verizon with coupon rates ranging from 4.672% to 5.012% and maturity dates ranging from 2054 to 2055 (May Tender offers). In addition, we entered into treasury rate locks with a total notional value of \$1.5 billion to hedge the tender offers conducted in November and December 2019 for eleven and twenty series of notes and debentures, respectively, issued by Verizon and other subsidiaries with coupon rates ranging from 3.850% to 8.950% and maturity dates ranging from 2021 to 2055 (November and December Tender offers). Upon the early settlement of the May, November and December Tender Offers, we settled these hedges and recognized an insignificant gain in Other income (expense), net.

During 2018, we entered into treasury rate locks with a total notional value of \$2.0 billion to hedge the tender offers conducted in September 2018 for eight series of notes issued by Verizon with coupon rates ranging from 3.850% to 5.012% and maturity dates ranging from 2039 to 2055 (September Tender Offers). Upon the early settlement of the September Tender Offers, we settled these hedges and recognized an insignificant loss in Other income (expense), net.

### **Concentrations of Credit Risk**

Financial instruments that subject us to concentrations of credit risk consist primarily of temporary cash investments, short-term and long-term investments, trade receivables, including device payment plan agreement receivables, certain notes receivable, including lease receivables, and derivative contracts.

Counterparties to our derivative contracts are major financial institutions with whom we have negotiated derivatives agreements (ISDA master agreements) and credit support annex (CSA) agreements which provide rules for collateral exchange. Negotiations and executions of new ISDA master agreements and CSA agreements with our counterparties continued during 2018. The CSA agreements contain rating based thresholds such that we or our counterparties may be required to hold or post collateral based upon changes in outstanding positions as compared to established thresholds and changes in credit ratings. At December 31, 2019, we held an insignificant amount and at December 31, 2018, we posted approximately \$0.1 billion of collateral related to derivative contracts under collateral exchange arrangements, which were recorded as Other current liabilities and Prepaid expenses and other, respectively, in our consolidated balance sheets. While we may be exposed to credit

losses due to the nonperformance of our counterparties, we consider the risk remote and do not expect that any such nonperformance would result in a significant effect on our results of operations or financial condition due to our diversified pool of counterparties.

## Note 10. Stock-Based Compensation

### Verizon Long-Term Incentive Plan

In May 2017, Verizon's shareholders approved the 2017 Long-Term Incentive Plan (the 2017 Plan) and terminated Verizon's authority to grant new awards under the Verizon 2009 Long-Term Incentive Plan (the 2009 Plan). The 2017 Plan provides for broad-based equity grants to employees, including executive officers, and permits the granting of stock options, stock appreciation rights, restricted stock, restricted stock units, performance shares, performance stock units and other awards. Upon approval of the 2017 Plan, Verizon reserved for issuance under the 2017 Plan the number of shares that were remaining but not issued under the 2009 Plan. Shares subject to outstanding awards under the 2009 Plan that expire, are canceled or otherwise terminated will also be available for awards under the 2017 Plan. As of December 31, 2019, 89 million shares are reserved for future issuance under the 2017 Plan.

### Restricted Stock Units

Restricted Stock Units (RSUs) granted under the 2017 Plan generally vest in three equal installments on each anniversary of the grant date. The RSUs that are paid in stock upon vesting and are thus classified as equity awards are measured using the grant date fair value of Verizon common stock and are not remeasured at the end of each reporting period. The RSUs that are settled in cash are classified as liability awards and the liability is measured at its fair value at the end of each reporting period. All RSUs granted under the 2017 Plan have dividend equivalent units, which will be paid to participants at the time the RSU award is paid, and in the same proportion as the RSU award.

In February 2018, Verizon announced a broad-based employee special award of RSUs under the 2017 Plan to eligible full-time and part-time employees. These RSUs are vested in two equal installments on each anniversary of the grant date and paid in cash. The first installment of the restricted stock units was vested and paid in February 2019 and the remaining restricted stock units will be vested and paid in February 2020.

In connection with our acquisition of Yahoo's operating business, on the closing date of the Transaction each unvested and outstanding Yahoo RSU award that was held by an employee who became an employee of Verizon was replaced with a Verizon RSU award, which is generally payable in cash upon the applicable vesting date. These awards are classified as liability awards and are measured at fair value at the end of each reporting period.

We estimate forfeitures at the time of grant and revise those estimates in subsequent periods if actual forfeitures differ from those estimates. We use historical data to estimate forfeitures and recognize that estimated compensation cost of restricted stock units, net of estimated forfeitures, on a straight-line basis over the vesting period.

### Performance Stock Units

The 2017 Plan also provides for grants of Performance Stock Units (PSUs) that generally vest at the end of the third year after the grant. As defined by the 2017 Plan, the Human Resources Committee of the Board of Directors determines the number of PSUs a participant earns based on the extent to which the corresponding performance goals have been achieved over the three-year performance cycle. The PSUs are classified as liability awards because the PSU awards are paid in cash upon vesting. The PSU award liability is measured at its fair value at the end of each reporting period and, therefore, will fluctuate based on the price of Verizon common stock as well as performance relative to the targets. All PSUs granted under the 2017 Plan have dividend equivalent units, which will be paid to participants at the time that PSU award is determined and paid, and in the same proportion as the PSU award. The granted and cancelled activity for the PSU award includes adjustments for the performance goals achieved.

The following table summarizes Verizon's Restricted Stock Unit and Performance Stock Unit activity:

(shares in thousands)	Restricted Stock Units		Performance Stock Units
	Equity Awards	Liability Awards	
Outstanding January 1, 2017	13,308	—	17,919
Granted	4,216	25,168	6,564
Payments	(4,825)	(8,487)	(6,031)
Cancelled/Forfeited	(66)	(2,690)	(217)
Outstanding December 31, 2017	12,633	13,991	18,235
Granted	4,134	15,157	5,779
Payments	(5,977)	(6,860)	(4,526)
Cancelled/Forfeited	(213)	(2,362)	(2,583)
Outstanding December 31, 2018	10,577	19,926	16,905
Granted	3,169	5,814	4,593
Payments	(6,397)	(9,429)	(3,255)
Cancelled/Forfeited	(90)	(1,598)	(2,692)
<b>Outstanding December 31, 2019</b>	<b>7,259</b>	<b>14,713</b>	<b>15,551</b>

As of December 31, 2019, unrecognized compensation expense related to the unvested portion of Verizon's RSUs and PSUs was approximately \$765 million and is expected to be recognized over approximately two years.

The equity RSUs granted in 2019 and 2018 have weighted-average grant date fair values of \$56.66 and \$49.19 per unit, respectively. During 2019, 2018 and 2017, we paid \$737 million, \$773 million and \$750 million, respectively, to settle RSUs and PSUs classified as liability awards.

### Stock-Based Compensation Expense

After-tax compensation expense for stock-based compensation related to RSUs and PSUs described above included in Net income attributable to Verizon was \$872 million, \$720 million and \$384 million for 2019, 2018 and 2017, respectively.

### Note 11. Employee Benefits

We maintain non-contributory defined benefit pension plans for certain employees. In addition, we maintain postretirement health care and life insurance plans for certain retirees and their dependents, which are both contributory and non-contributory, and include a limit on our share of the cost for certain current and future retirees. In accordance with our accounting policy for pension and other postretirement benefits, operating expenses include service costs associated with pension and other postretirement benefits while other credits and/or charges based on actuarial assumptions, including projected discount rates, an estimated return on plan assets, and impact from health care trend rates are reported in Other income (expense), net. These estimates are updated in the fourth quarter to reflect actual return on plan assets and updated actuarial assumptions or upon a remeasurement. The adjustment is recognized in the income statement during the fourth quarter or upon a remeasurement event pursuant to our accounting policy for the recognition of actuarial gains and losses.

### Pension and Other Postretirement Benefits

Pension and other postretirement benefits for certain employees are subject to collective bargaining agreements. Modifications in benefits have been bargained from time to time, and we may also periodically amend the benefits in the management plans. The following tables summarize benefit costs, as well as the benefit obligations, plan assets, funded status and rate assumptions associated with pension and postretirement health care and life insurance benefit plans.

### Obligations and Funded Status

At December 31,	(dollars in millions)			
	Pension		Health Care and Life	
	2019	2018	2019	2018
<b>Change in Benefit Obligations</b>				
Beginning of year	\$ 19,567	\$ 21,531	\$ 16,364	\$ 19,460
Service cost	247	284	96	127
Interest cost	695	690	629	615
Plan amendments	—	230	(22)	(8)
Actuarial (gain) loss, net	2,860	(1,418)	(414)	(2,729)
Benefits paid	(1,248)	(1,475)	(984)	(1,101)
Curtailment and termination benefits	—	181	—	—
Settlements paid	(873)	(456)	—	—
<b>End of year</b>	<b>21,248</b>	<b>19,567</b>	<b>15,669</b>	<b>16,364</b>
<b>Change in Plan Assets</b>				
Beginning of year	17,816	19,175	1,175	1,119
Actual return on plan assets	3,385	(494)	103	(26)
Company contributions	371	1,066	449	1,183
Benefits paid	(1,248)	(1,475)	(984)	(1,101)
Settlements paid	(873)	(456)	—	—
<b>End of year</b>	<b>19,451</b>	<b>17,816</b>	<b>743</b>	<b>1,175</b>
<b>Funded Status</b>				
<b>End of year</b>	<b>\$ (1,797)</b>	<b>\$ (1,751)</b>	<b>\$ (14,926)</b>	<b>\$ (15,189)</b>

(dollars in millions)

At December 31,	Pension			Health Care and Life	
	2019	2018	2019	2018	
<b>Amounts recognized on the balance sheet</b>					
Noncurrent assets	\$ 5	\$ 3	\$ —	\$ —	
Current liabilities	(67)	(71)	(603)	(292)	
Noncurrent liabilities	(1,735)	(1,683)	(14,323)	(14,897)	
<b>Total</b>	<b>\$ (1,797)</b>	<b>\$ (1,751)</b>	<b>\$ (14,926)</b>	<b>\$ (15,189)</b>	
<b>Amounts recognized in Accumulated Other Comprehensive Income (Pre-tax)</b>					
Prior service cost (benefit)	\$ 524	\$ 585	\$ (3,749)	\$ (4,698)	
<b>Total</b>	<b>\$ 524</b>	<b>\$ 585</b>	<b>\$ (3,749)</b>	<b>\$ (4,698)</b>	

The accumulated benefit obligation for all defined benefit pension plans was \$21.2 billion and \$19.5 billion at December 31, 2019 and 2018, respectively.

#### **2018 Collective Bargaining Negotiations**

The extension agreement ratified in August 2018 extended our collective bargaining agreements with the Communications Workers of America and the International Brotherhood of Electrical Workers that were due to expire on August 3, 2019 for four years until August 5, 2023. Amendments triggered by the collective bargaining negotiations were made to certain pension plans for certain union-represented employees and retirees. The impact of the plan amendments was an increase in our defined benefit pension plans plan obligations and a net decrease to Accumulated other comprehensive income of \$230 million (net of taxes of \$170 million). The annual impact of the amount recorded in Accumulated other comprehensive income that will be reclassified to net periodic benefit cost is insignificant.

#### **2017 Postretirement Plan Amendments**

During 2017, amendments were made to certain postretirement plans related to retiree medical benefits for management and certain union-represented employees and retirees. The impact of the plan amendments was a reduction in our postretirement benefit plan obligations of approximately \$527 million, which has been recorded as a net increase to Accumulated other comprehensive income of \$317 million (net of taxes of \$210 million). The impact of the amount recorded in Accumulated other comprehensive income that will be reclassified to net periodic benefit cost is insignificant.

#### **2016 Collective Bargaining Negotiations**

During 2016, we adopted changes to our defined benefit pension plans and other postretirement benefit plans to reflect the agreed upon terms and conditions of the collective bargaining agreements ratified in June 2016. The impact includes a net increase to Accumulated other comprehensive income of \$2.9 billion (net of taxes of \$1.8 billion). The amount recorded in Accumulated other comprehensive income will be reclassified to net periodic benefit cost on a straight-line basis over the average remaining service period of the respective plans' participants, which, on a weighted-average basis, is 12.2 years for defined benefit pension plans and 7.8 years for other postretirement benefit plans. The above-noted reclassification resulted in a decrease to net periodic benefit cost and increase to pre-tax income of approximately \$658 million during 2019, 2018 and 2017, respectively.

Information for pension plans with an accumulated benefit obligation in excess of plan assets follows:

(dollars in millions)

At December 31,	2019	2018
Projected benefit obligation	\$ 21,190	\$ 19,510
Accumulated benefit obligation	21,134	19,461
Fair value of plan assets	19,388	17,757

## Net Periodic Benefit Cost (Income)

The following table summarizes the components of net periodic benefit cost (income) related to our pension and postretirement health care and life insurance plans:

	(dollars in millions)					
	Pension			Health Care and Life		
Years Ended December 31,	2019	2018	2017	2019	2018	2017
Service cost - Cost of services	\$ 202	\$ 230	\$ 215	\$ 78	\$ 104	\$ 116
Service cost - Selling, general and administrative expense	45	54	65	18	23	33
<b>Service cost</b>	<b>247</b>	<b>284</b>	<b>280</b>	<b>96</b>	<b>127</b>	<b>149</b>
Amortization of prior service cost (credit)	61	48	39	(971)	(976)	(949)
Expected return on plan assets	(1,130)	(1,293)	(1,262)	(37)	(44)	(53)
Interest cost	695	690	683	629	615	659
Remeasurement loss (gain), net	606	369	337	(480)	(2,658)	546
Curtailment and termination benefits	—	181	11	—	—	—
<b>Other components</b>	<b>232</b>	<b>(5)</b>	<b>(192)</b>	<b>(859)</b>	<b>(3,063)</b>	<b>203</b>
<b>Total</b>	<b>\$ 479</b>	<b>\$ 279</b>	<b>\$ 88</b>	<b>\$ (763)</b>	<b>\$ (2,936)</b>	<b>\$ 352</b>

The service cost component of net periodic benefit cost (income) is recorded in Cost of services and Selling, general and administrative expense in the consolidated statements of income while the other components, including mark-to-market adjustments, if any, are recorded in Other income (expense), net.

Other pre-tax changes in plan assets and benefit obligations recognized in other comprehensive (income) loss are as follows:

	(dollars in millions)					
	Pension			Health Care and Life		
At December 31,	2019	2018	2017	2019	2018	2017
Prior service cost (benefit)	\$ —	\$ 230	\$ —	\$ (22)	\$ (8)	\$ (544)
Reversal of amortization items						
Prior service cost (benefit)	(61)	(48)	(39)	971	976	949
<b>Total recognized in other comprehensive loss (income) (pre-tax)</b>	<b>\$ (61)</b>	<b>\$ 182</b>	<b>\$ (39)</b>	<b>\$ 949</b>	<b>\$ 968</b>	<b>\$ 405</b>

The estimated prior service cost for the defined benefit pension plans that will be amortized from Accumulated other comprehensive income into net periodic benefit cost over the next fiscal year is \$61 million. The estimated prior service cost for the defined benefit postretirement plans that will be amortized from Accumulated other comprehensive income into net periodic benefit income over the next fiscal year is \$1.0 billion.

## Assumptions

The weighted-average assumptions used in determining benefit obligations follow:

	Pension		Health Care and Life	
At December 31,	2019	2018	2019	2018
Discount Rate	3.30%	4.40%	3.20%	4.30%
Rate of compensation increases	3.00	3.00	N/A	N/A

The weighted-average assumptions used in determining net periodic cost follow:

	Pension			Health Care and Life		
At December 31,	2019	2018	2017	2019	2018	2017
Discount rate in effect for determining service cost	4.60%	4.10%	4.70%	4.60%	3.90%	4.60%
Discount rate in effect for determining interest cost	3.80	3.40	3.40	4.00	3.20	3.50
Expected return on plan assets	6.80	7.00	7.70	4.30	4.80	4.50
Rate of compensation increases	3.00	3.00	3.00	N/A	N/A	N/A

In determining our pension and other postretirement benefit obligations, we used a weighted-average discount rate of 3.3% in 2019. The rates were selected to approximate the composite interest rates available on a selection of high-quality bonds available in the market at December 31, 2019. The bonds selected had maturities that coincided with the time periods during which benefits payments are expected to occur, were non-callable and available in sufficient quantities to ensure marketability (at least \$300 million par outstanding).

In order to project the long-term target investment return for the total portfolio, estimates are prepared for the total return of each major asset class over the subsequent 10-year period. Those estimates are based on a combination of factors including the current market interest rates and valuation levels, consensus earnings expectations and historical long-term risk premiums. To determine the aggregate return for the pension trust, the projected return of each individual asset class is then weighted according to the allocation to that investment area in the trust's long-term asset allocation policy.

The assumed health care cost trend rates are as follows:

At December 31,	Health Care and Life		
	2019	2018	2017
Healthcare cost trend rate assumed for next year	6.10%	6.30%	7.00%
Rate to which cost trend rate gradually declines	4.50	4.50	4.50
Year the rate reaches the level it is assumed to remain thereafter	2027	2027	2026

A one-percentage point change in the assumed health care cost trend rate would have the following effects:

One-Percentage Point	(dollars in millions)	
	Increase	Decrease
Effect on 2019 service and interest cost	\$ 20	\$ (21)
Effect on postretirement benefit obligation as of December 31, 2019	626	(696)

## Plan Assets

The Company's overall investment strategy is to achieve a mix of assets that allows us to meet projected benefit payments while taking into consideration risk and return. While target allocation percentages will vary over time, the current target allocation for plan assets is designed so that 48% to 68% of the assets have the objective of achieving a return in excess of the growth in liabilities (comprised of public equities, private equities, real estate, hedge funds and emerging debt) and 35% to 55% of the assets are invested as liability hedging assets (where cash flows from investments better match projected benefit payments, typically longer duration fixed income) and a maximum of 15% is in cash. This allocation will shift as funded status improves to a higher allocation of liability hedging assets. Target policies will be revisited periodically to ensure they are in line with fund objectives. Both active and passive management approaches are used depending on perceived market efficiencies and various other factors. Due to our diversification and risk control processes, there are no significant concentrations of risk, in terms of sector, industry, geography or company names.

Pension and healthcare and life plans assets do not include significant amounts of Verizon common stock.

## Pension Plans

The fair values for the pension plans by asset category at December 31, 2019 are as follows:

Asset Category	(dollars in millions)			
	Total	Level 1	Level 2	Level 3
Cash and cash equivalents	\$ 1,529	\$ 1,507	\$ 22	\$ —
Equity securities	2,988	2,850	135	3
Fixed income securities				
U.S. Treasuries and agencies	1,986	1,768	218	—
Corporate bonds	3,818	524	3,149	145
International bonds	1,355	25	1,304	26
Other	768	—	768	—
Real estate	810	—	—	810
Other				
Private equity	737	—	—	737
Hedge funds	293	—	164	129
Total investments at fair value	14,284	6,674	5,760	1,850
Investments measured at NAV	5,167			
<b>Total</b>	<b>\$ 19,451</b>	<b>\$ 6,674</b>	<b>\$ 5,760</b>	<b>\$ 1,850</b>

The fair values for the pension plans by asset category at December 31, 2018 are as follows:

(dollars in millions)				
Asset Category	Total	Level 1	Level 2	Level 3
Cash and cash equivalents	\$ 1,701	\$ 1,694	\$ 7	\$ —
Equity securities	2,253	2,220	20	13
Fixed income securities				
U.S. Treasuries and agencies	1,684	1,557	127	—
Corporate bonds	3,645	124	3,244	277
International bonds	1,113	19	1,076	18
Other	—	—	—	—
Real estate	727	—	—	727
Other				
Private equity	664	—	—	664
Hedge funds	459	—	373	86
Total investments at fair value	12,246	5,614	4,847	1,785
Investments measured at NAV	5,570			
<b>Total</b>	<b>\$ 17,816</b>	<b>\$ 5,614</b>	<b>\$ 4,847</b>	<b>\$ 1,785</b>

The following is a reconciliation of the beginning and ending balance of pension plan assets that are measured at fair value using significant unobservable inputs:

(dollars in millions)							
	Equity Securities	Corporate Bonds	International Bonds	Real Estate	Private Equity	Hedge Funds	Total
Balance at January 1, 2018	\$ 1	\$ 104	\$ 20	\$ 627	\$ 580	\$ 185	\$ 1,517
Actual gain (loss) on plan assets	1	(7)	3	134	25	—	156
Purchases (sales)	11	177	(5)	(34)	59	62	270
Transfers out	—	3	—	—	—	(161)	(158)
Balance at December 31, 2018	13	277	18	727	664	86	1,785
Actual gain (loss) on plan assets	1	(1)	(1)	30	32	—	61
Purchases (sales)	(11)	18	9	53	41	116	226
Transfers out	—	(149)	—	—	—	(73)	(222)
<b>Balance at December 31, 2019</b>	<b>\$ 3</b>	<b>\$ 145</b>	<b>\$ 26</b>	<b>\$ 810</b>	<b>\$ 737</b>	<b>\$ 129</b>	<b>\$ 1,850</b>

#### Health Care and Life Plans

The fair values for the other postretirement benefit plans by asset category at December 31, 2019 are as follows:

(dollars in millions)				
Asset Category	Total	Level 1	Level 2	Level 3
Cash and cash equivalents	\$ 220	\$ 167	\$ 53	\$ —
Equity securities	225	225	—	—
Fixed income securities				
U.S. Treasuries and agencies	28	28	—	—
Corporate bonds	76	76	—	—
International bonds	18	18	—	—
Total investments at fair value	567	514	53	—
Investments measured at NAV	176			
<b>Total</b>	<b>\$ 743</b>	<b>\$ 514</b>	<b>\$ 53</b>	<b>\$ —</b>



The fair values for the other postretirement benefit plans by asset category at December 31, 2018 are as follows:

(dollars in millions)				
Asset Category	Total		Level 1	
	Level 2		Level 3	
Cash and cash equivalents	\$	471	\$	431
Equity securities		239		239
Fixed income securities				
U.S. Treasuries and agencies		24		24
Corporate bonds		96		96
International bonds		18		18
Total investments at fair value		848		808
Investments measured at NAV		327		40
<b>Total</b>	\$	1,175	\$	808
			\$	40
			\$	—

The following are general descriptions of asset categories, as well as the valuation methodologies and inputs used to determine the fair value of each major category of assets.

Cash and cash equivalents include short-term investment funds (less than 90 days to maturity), primarily in diversified portfolios of investment grade money market instruments and are valued using quoted market prices or other valuation methods. The carrying value of cash equivalents approximates fair value due to the short-term nature of these investments.

Investments in securities traded on national and foreign securities exchanges are valued by the trustee at the last reported sale prices on the last business day of the year or, if no sales were reported on that date, at the last reported bid prices. Government obligations, corporate bonds, international bonds and asset-backed debt are valued using matrix prices with input from independent third-party valuation sources. Over-the-counter securities are valued at the bid prices or the average of the bid and ask prices on the last business day of the year from published sources or, if not available, from other sources considered reliable such as multiple broker quotes.

Commingled funds not traded on national exchanges are priced by the custodian or fund's administrator at their net asset value (NAV). Commingled funds held by third-party custodians appointed by the fund managers provide the fund managers with a NAV. The fund managers have the responsibility for providing this information to the custodian of the respective plan.

The investment manager of the entity values venture capital, corporate finance and natural resource limited partnership investments. Real estate investments are valued at amounts based upon appraisal reports prepared by either independent real estate appraisers or the investment manager using discounted cash flows or market comparable data. Loans secured by mortgages are carried at the lesser of the unpaid balance or appraised value of the underlying properties. The values assigned to these investments are based upon available and current market information and do not necessarily represent amounts that might ultimately be realized. Because of the inherent uncertainty of valuation, estimated fair values might differ significantly from the values that would have been used had a ready market for the securities existed. These differences could be material.

Forward currency contracts, futures, and options are valued by the trustee at the exchange rates and market prices prevailing on the last business day of the year. Both exchange rates and market prices are readily available from published sources. These securities are classified by the asset class of the underlying holdings.

Hedge funds are valued by the custodian at NAV based on statements received from the investment manager. These funds are valued in accordance with the terms of their corresponding offering or private placement memoranda.

Commingled funds, hedge funds, venture capital, corporate finance, natural resource and real estate limited partnership investments for which fair value is measured using the NAV per share as a practical expedient are not leveled within the fair value hierarchy and are included as a reconciling item to total investments.

## Employer Contributions

In 2019, we made a \$300 million discretionary contribution to our qualified pension plans, \$71 million of contributions to our nonqualified pension plans and \$449 million of contributions to our other postretirement benefit plans. No qualified pension plans contributions are expected to be made in 2020. Nonqualified pension plans contributions are estimated to be approximately \$70 million and contributions to our other postretirement benefit plans are estimated to be approximately \$700 million in 2020.

## Estimated Future Benefit Payments

The benefit payments to retirees are expected to be paid as follows:

Year	(dollars in millions)	
	Pension Benefits	Health Care and Life
2020	\$ 2,227	\$ 961
2021	1,680	947
2022	1,620	930
2023	1,577	968
2024	1,072	951
2025 to 2029	5,248	4,569

## Savings Plan and Employee Stock Ownership Plans

We maintain four leveraged employee stock ownership plans (ESOP). We match a certain percentage of eligible employee contributions to certain savings plans with shares of our common stock from this ESOP. At December 31, 2019, the number of allocated shares of common stock in this ESOP was 49 million. There were no unallocated shares of common stock in this ESOP at December 31, 2019. All leveraged ESOP shares are included in earnings per share computations.

Total savings plan costs were \$897 million in 2019, \$1.1 billion in 2018 and \$838 million in 2017.

## Severance Benefits

The following table provides an analysis of our severance liability:

Year	(dollars in millions)				
	Beginning of Year	Charged to Expense	Payments	Other	End of Year
2017	\$ 656	\$ 581	\$ (564)	\$ (46)	\$ 627
2018	627	2,093	(560)	(4)	2,156
2019	2,156	260	(1,847)	(4)	565

## Severance, Pension and Benefits (Credits) Charges

During 2019, in accordance with our accounting policy to recognize actuarial gains and losses in the period in which they occur, we recorded net pre-tax pension and benefits charges of \$126 million in our pension and postretirement benefit plans. The charges were recorded in Other income (expense), net in our consolidated statement of income and were primarily driven by a decrease in our discount rate assumption used to determine the current year liabilities of our pension plans and postretirement benefit plans from a weighted-average of 4.4% at December 31, 2018 to a weighted-average of 3.3% at December 31, 2019 (\$4.3 billion), partially offset by the difference between our estimated return on assets and our actual return on assets (\$2.3 billion) and other assumption adjustments of \$1.9 billion, of which \$1.6 billion related to healthcare claims experience. During 2019, we also recorded net pre-tax severance charges of \$260 million in Selling, general and administrative expense in our consolidated statements of income.

During 2018, we recorded net pre-tax pension and benefits credits of \$2.1 billion in accordance with our accounting policy to recognize actuarial gains and losses in the period in which they occur. The pension and benefits remeasurement credits of \$2.3 billion, which were recorded in Other income (expense), net in our consolidated statements of income, were primarily driven by an increase in our discount rate assumption used to determine the current year liabilities of our pension plans and postretirement benefit plans from a weighted-average of 3.7% at December 31, 2017 to a weighted-average of 4.4% at December 31, 2018 (\$2.6 billion), and mortality and other assumption adjustments of \$1.7 billion, \$1.6 billion of which related to healthcare claims and trend adjustments, offset by the difference between our estimated return on assets of 7.0% and our actual return on assets of (2.7)% (\$1.9 billion). The credits were partially offset by \$177 million due to the effect of participants retiring under the Voluntary Separation Program.

In September 2018, Verizon announced a Voluntary Separation Program for select U.S.-based management employees. Approximately 10,400 eligible employees separated from the Company under this program as of the end of June 2019. The severance benefit payments to these employees were substantially completed by the end of September 2019. Principally as a result of this program but also as a result of other headcount reduction initiatives, the Company recorded a severance charge of \$1.8 billion (\$1.4 billion after-tax) during the year ended December 31, 2018, which was recorded in Selling, general and administrative expense in our consolidated statement of income. During 2018, we also recorded \$339 million in severance costs under our other existing separation plans.

During 2017, we recorded net pre-tax severance, pension and benefits charges of \$1.4 billion, exclusive of acquisition related severance charges, in accordance with our accounting policy to recognize actuarial gains and losses in the period in which they occur. The pension and benefits remeasurement charges of approximately \$911 million, which were recorded in Other income (expense), net in our consolidated statements of income, were primarily driven by a decrease in our discount rate assumption used to determine the current year liabilities of our pension and postretirement benefit plans from a weighted-average of 4.2% at December 31, 2016 to a weighted-average of 3.7% at December 31, 2017 (\$2.6 billion). The charges were partially offset by the difference between our estimated return on assets of 7.0% and our actual return on assets

of 14.0% (\$1.2 billion), a change in mortality assumptions primarily driven by the use of updated actuarial tables (MP-2017) issued by the Society of Actuaries (\$227 million) and other assumption adjustments (\$320 million). As part of these charges, we also recorded severance costs of \$497 million under our existing separation plans, which were recorded in Selling, general and administrative expense in our consolidated statement of income.

## Note 12. Taxes

The components of income before provision (benefit) for income taxes are as follows:

Years Ended December 31,	(dollars in millions)			
	2019		2018	2017
Domestic	\$	21,655	\$ 19,801	\$ 19,645
Foreign		1,078	(178)	949
<b>Total</b>	<b>\$</b>	<b>22,733</b>	<b>\$ 19,623</b>	<b>\$ 20,594</b>

The components of the provision (benefit) for income taxes are as follows:

Years Ended December 31,	(dollars in millions)			
	2019		2018	2017
Current				
Federal	\$	518	\$ 2,187	\$ 3,630
Foreign		221	267	200
State and Local		974	741	677
<b>Total</b>		<b>1,713</b>	<b>3,195</b>	<b>4,507</b>
Deferred				
Federal		1,150	175	(14,360)
Foreign		(13)	30	(66)
State and Local		95	184	(37)
<b>Total</b>		<b>1,232</b>	<b>389</b>	<b>(14,463)</b>
<b>Total income tax provision (benefit)</b>	<b>\$</b>	<b>2,945</b>	<b>\$ 3,584</b>	<b>\$ (9,956)</b>

The following table shows the principal reasons for the difference between the effective income tax rate and the statutory federal income tax rate:

Years Ended December 31,	2019	2018	2017
Statutory federal income tax rate	21.0 %	21.0 %	35.0 %
State and local income tax rate, net of federal tax benefits	3.7	3.7	1.6
Preferred stock disposition	(9.9)	—	—
Affordable housing credit	(0.4)	(0.6)	(0.6)
Employee benefits including ESOP dividend	(0.3)	(0.3)	(0.5)
Impact of tax reform re-measurement	—	—	(81.6)
Internal restructure	—	(9.1)	(0.6)
Noncontrolling interests	(0.5)	(0.5)	(0.6)
Non-deductible goodwill	0.1	4.7	1.0
Other, net	(0.7)	(0.6)	(2.0)
<b>Effective income tax rate</b>	<b>13.0 %</b>	<b>18.3 %</b>	<b>(48.3)%</b>

The effective income tax rate for 2019 was 13.0% compared to 18.3% for 2018. The decrease in the effective income tax rate and the provision for income taxes was primarily due to the recognition of approximately \$2.2 billion of a non-recurring tax benefit in connection with the disposition of preferred stock, representing a minority interest in a foreign affiliate in 2019 compared to the non-recurring deferred tax benefit of approximately \$2.1 billion, as a result of an internal reorganization of legal entities within the historical Wireless business, which was offset by a goodwill charge that is not deductible for tax purposes in 2018.

The effective income tax rate for 2018 was 18.3% compared to (48.3)% for 2017. The increase in the effective income tax rate and the provision for income taxes was primarily due to the non-recurring, non-cash income tax benefit of \$16.8 billion recorded in 2017 for the re-measurement of U.S. deferred tax liabilities at the lower 21% U.S. federal corporate income tax rate, as a result of the enactment of the TCJA on December 22, 2017. In addition, the provision for income taxes for 2018 includes the tax impact of the Media goodwill impairment charge not deductible for tax purposes, offset by the reduction in the statutory U.S federal corporate income tax rate from 35% to 21%, effective January 1, 2018 under the TCJA and a non-recurring deferred tax benefit of approximately \$2.1 billion as a result of an internal reorganization of legal entities within the historical Wireless business.

In December 2017, the Securities and Exchange Commission staff issued Staff Accounting Bulletin (SAB) 118 to provide guidance for companies that had not completed their accounting for the income tax effects of the TCJA. Due to the complexities involved in accounting for the enactment of the TCJA, SAB 118 allowed for a provisional estimate of the impacts of the TCJA in our earnings for the year ended December 31, 2017, as well as up to a one year measurement period that ended on December 22, 2018, for any subsequent adjustments to such provisional estimate. In 2018, Verizon completed its analysis of the impacts of the TCJA, including analyzing the effects of any IRS and U.S. Treasury guidance issued, and state tax law changes enacted, within the one year measurement period resulting in no significant adjustments to the \$16.8 billion provisional amount recorded in December 2017.

The amounts of cash taxes paid by Verizon are as follows:

(dollars in millions)			
Years Ended December 31,	2019	2018	2017
Income taxes, net of amounts refunded	\$ 3,583	\$ 2,213	\$ 4,432
Employment taxes	1,044	1,066	1,207
Property and other taxes	1,551	1,598	1,737
<b>Total</b>	<b>\$ 6,178</b>	<b>\$ 4,877</b>	<b>\$ 7,376</b>

### Deferred Tax Assets and Liabilities

Deferred taxes arise because of differences in the book and tax bases of certain assets and liabilities. Significant components of deferred tax assets and liabilities are as follows:

(dollars in millions)			
At December 31,	2019	2018	
<b>Deferred Tax Assets</b>			
Employee benefits	\$ 5,048	\$ 5,403	
Tax loss and credit carry forwards	3,012	3,576	
Other - assets	5,595	1,650	
	<b>13,655</b>	<b>10,629</b>	
Valuation allowances	(2,260)	(2,741)	
Deferred tax assets	<b>11,395</b>	<b>7,888</b>	
<b>Deferred Tax Liabilities</b>			
Spectrum and other intangible amortization	22,388	21,976	
Depreciation	16,884	15,662	
Other - liabilities	6,742	3,976	
Deferred tax liabilities	<b>46,014</b>	<b>41,614</b>	
<b>Net deferred tax liability</b>	<b>\$ 34,619</b>	<b>\$ 33,726</b>	

At December 31, 2019, undistributed earnings of our foreign subsidiaries indefinitely invested outside the U.S. amounted to approximately \$3.8 billion. The majority of Verizon's cash flow is generated from domestic operations and we are not dependent on foreign cash or earnings to meet our funding requirements, nor do we intend to repatriate these undistributed foreign earnings to fund U.S. operations. Furthermore, a portion of these undistributed earnings represents amounts that legally must be kept in reserve in accordance with certain foreign jurisdictional requirements and are unavailable for distribution or repatriation. As a result, we have not provided U.S. deferred taxes on these undistributed earnings because we intend that they will remain indefinitely reinvested outside of the U.S. and therefore unavailable for use in funding U.S. operations. Determination of the amount of unrecognized deferred taxes related to these undistributed earnings is not practicable.

At December 31, 2019, we had net after-tax loss and credit carry forwards for income tax purposes of approximately \$3.0 billion that primarily relate to state and foreign taxes. Of these net after-tax loss and credit carry forwards, approximately \$2.0 billion will expire between 2020 and 2039 and approximately \$1.0 billion may be carried forward indefinitely.

During 2019, the valuation allowance decreased approximately \$481 million. The balance of the valuation allowance at December 31, 2019 and the 2019 activity is primarily related to state and foreign taxes.

### Unrecognized Tax Benefits

A reconciliation of the beginning and ending balance of unrecognized tax benefits is as follows:

	(dollars in millions)		
	2019	2018	2017
Balance at January 1,	\$ 2,871	\$ 2,355	\$ 1,902
Additions based on tax positions related to the current year	149	160	219
Additions for tax positions of prior years	297	699	756
Reductions for tax positions of prior years	(300)	(248)	(419)
Settlements	(58)	(40)	(42)
Lapses of statutes of limitations	(89)	(55)	(61)
<b>Balance at December 31,</b>	<b>\$ 2,870</b>	<b>\$ 2,871</b>	<b>\$ 2,355</b>

Included in the total unrecognized tax benefits at December 31, 2019, 2018 and 2017 is \$2.4 billion, \$2.3 billion and \$1.9 billion, respectively, that if recognized, would favorably affect the effective income tax rate.

We recognized the following net after-tax expenses related to interest and penalties in the provision for income taxes:

Years Ended December 31,	(dollars in millions)
<b>2019</b>	<b>\$ 35</b>
2018	75
2017	77

The after-tax accruals for the payment of interest and penalties in the consolidated balance sheets are as follows:

At December 31,	(dollars in millions)
<b>2019</b>	<b>\$ 385</b>
2018	348

Verizon and/or its subsidiaries file income tax returns in the U.S. federal jurisdiction, and various state, local and foreign jurisdictions. As a large taxpayer, we are under audit by the IRS and multiple state and foreign jurisdictions for various open tax years. The IRS is currently examining the Company's U.S. income tax returns for tax years 2013-2014 and Cellco Partnership's U.S. income tax return for tax year 2013-2014. Tax controversies are ongoing for tax years as early as 2005. The amount of the liability for unrecognized tax benefits will change in the next twelve months due to the expiration of the statute of limitations in various jurisdictions and it is reasonably possible that various current tax examinations will conclude or require reevaluations of the Company's tax positions during this period. An estimate of the range of the possible change cannot be made until these tax matters are further developed or resolved.

### Note 13. Segment Information

#### Reportable Segments

As discussed in Note 1, in November 2018, we announced a strategic reorganization of our business. Under the new structure, effective April 1, 2019, there are two reportable segments that we operate and manage as strategic business units - Consumer and Business. We measure and evaluate our reportable segments based on segment operating income, consistent with the chief operating decision maker's assessment of segment performance.

Our segments and their principal activities consist of the following:

Segment	Description
<b>Verizon Consumer Group</b>	Our Consumer segment provides consumer-focused wireless and wireline communications services and products. Our wireless services are provided across one of the most extensive wireless networks in the United States under the Verizon brand and through wholesale and other arrangements. Our wireline services are provided in nine states in the Mid-Atlantic and Northeastern U.S., as well as Washington D.C., over our 100% fiber-optic network under the Fios brand and over a traditional copper-based network to customers who are not served by Fios.
<b>Verizon Business Group</b>	Our Business segment provides wireless and wireline communications services and products, video and data services, corporate networking solutions, security and managed network services, local and long distance voice services and network access to deliver various IoT services and products. We provide these products and services to businesses, government customers and wireless and wireline carriers across the U.S. and select products and services to customers around the world.

Our Consumer segment's wireless and wireline products and services are available to our retail customers, as well as resellers that purchase wireless network access from us on a wholesale basis. Our Business segment's wireless and wireline products and services are organized by the primary customer groups targeted by these offerings: Global Enterprise, Small and Medium Business, Public Sector and Other, and Wholesale.

Corporate and other includes the results of our media business, Verizon Media, and other businesses, investments in unconsolidated businesses, unallocated corporate expenses, certain pension and other employee benefit related costs and interest and financing expenses. Corporate and

other also includes the historical results of divested businesses and other adjustments and gains and losses that are not allocated in assessing segment performance due to their nature. Although such transactions are excluded from the business segment results, they are included in reported consolidated earnings. Gains and losses from these transactions that are not individually significant are included in segment results as these items are included in the chief operating decision maker's assessment of segment performance.

We completed our acquisition of Yahoo's operating business on June 13, 2017 and as such results are included since the acquisition date.

In May 2017, we completed the Data Center Sale, where we sold 23 customer-facing data center sites in the U.S. and Latin America to Equinix. The results of operations for this divestiture and other insignificant transactions are included within Corporate and other for all periods presented to reflect comparable segment operating results consistent with the information regularly reviewed by our chief operating decision maker.

The reconciliation of segment operating revenues and expenses to consolidated operating revenues and expenses below includes the effects of special items that the chief operating decision maker does not consider in assessing segment performance, primarily because of their nature.

The following tables provides operating financial information for our two reportable segments:

				(dollars in millions)
2019	Consumer		Business	Total Reportable Segments
External Operating Revenues				
Service	\$	65,384	\$ —	\$ 65,384
Wireless equipment		18,048	—	18,048
Other		7,384	—	7,384
Global Enterprise		—	10,815	10,815
Small and Medium Business		—	11,447	11,447
Public Sector and Other		—	5,922	5,922
Wholesale		—	3,198	3,198
Intersegment revenues		240	61	301
Total Operating Revenues <sup>(1)</sup>		91,056	31,443	122,499
Cost of services		15,884	10,655	26,539
Cost of wireless equipment		18,219	4,733	22,952
Selling, general and administrative expense		16,639	8,188	24,827
Depreciation and amortization expense		11,353	4,105	15,458
Total Operating Expenses		62,095	27,681	89,776
Operating Income	\$	28,961	\$ 3,762	\$ 32,723

<sup>(1)</sup> Service and other revenues and Wireless equipment revenues included in our Business segment amounted to approximately \$27.9 billion and \$3.5 billion, respectively, for the year ended December 31, 2019.

(dollars in millions)

2018	Consumer		Business		Total Reportable Segments
External Operating Revenues					
Service	\$	64,207	\$	—	\$ 64,207
Wireless equipment		18,874		—	18,874
Other		6,447		—	6,447
Global Enterprise		—		11,197	11,197
Small and Medium Business		—		10,732	10,732
Public Sector and Other		—		5,830	5,830
Wholesale		—		3,713	3,713
Intersegment revenues		234		62	296
Total Operating Revenues <sup>(1)</sup>		89,762		31,534	121,296
Cost of services		15,335		10,859	26,194
Cost of wireless equipment		18,763		4,560	23,323
Selling, general and administrative expense		15,701		7,689	23,390
Depreciation and amortization expense		11,952		4,258	16,210
Total Operating Expenses		61,751		27,366	89,117
Operating Income	\$	28,011	\$	4,168	\$ 32,179

<sup>(1)</sup> Service and other revenues and Wireless equipment revenues included in our Business segment amounted to approximately \$28.1 billion and \$3.4 billion, respectively, for the year ended December 31, 2018.

(dollars in millions)

2017	Consumer		Business		Total Reportable Segments
External Operating Revenues					
Service	\$	63,769	\$	—	\$ 63,769
Wireless equipment		17,292		—	17,292
Other		5,735		—	5,735
Global Enterprise		—		11,444	11,444
Small and Medium Business		—		9,793	9,793
Public Sector and Other		—		5,652	5,652
Wholesale		—		3,978	3,978
Intersegment revenues		258		46	304
Total Operating Revenues <sup>(1)</sup>		87,054		30,913	117,967
Cost of services		14,981		11,094	26,075
Cost of wireless equipment		17,713		4,434	22,147
Selling, general and administrative expense		17,292		7,448	24,740
Depreciation and amortization expense		11,308		4,483	15,791
Total Operating Expenses		61,294		27,459	88,753
Operating Income	\$	25,760	\$	3,454	\$ 29,214

<sup>(1)</sup> Service and other revenues and Wireless equipment revenues included in our Business segment amounted to approximately \$29.3 billion and \$1.6 billion, respectively, for the year ended December 31, 2017.

The following table provides Fios revenues for our two reportable segments:

(dollars in millions)

Years Ended December 31,	2019		2018		2017
Consumer	\$	11,175	\$	11,056	\$ 10,903
Business		967		883	788
<b>Total Fios revenue</b>	\$	12,142	\$	11,939	\$ 11,691

The following table provides Wireless service revenue for our reportable segments and includes intersegment activity:

		(dollars in millions)		
Years Ended December 31,		2019	2018	2017
Consumer	\$	53,791	\$ 52,459	\$ 51,954
Business		11,188	10,484	11,093
<b>Total Wireless service revenue</b>	<b>\$</b>	<b>64,979</b>	<b>\$ 62,943</b>	<b>\$ 63,047</b>

## Reconciliation to Consolidated Financial Information

A reconciliation of the reportable segment operating revenues to consolidated operating revenues is as follows:

		(dollars in millions)		
Years Ended December 31,		2019	2018	2017
<b>Operating Revenues</b>				
Total reportable segments	\$	122,499	\$ 121,296	\$ 117,967
Corporate and other		9,812	9,936	8,098
Reconciling items:				
Operating results from divested businesses (Note 3)		—	—	368
Eliminations		(443)	(369)	(399)
<b>Consolidated Operating Revenues</b>	<b>\$</b>	<b>131,868</b>	<b>\$ 130,863</b>	<b>\$ 126,034</b>

A reconciliation of the total reportable segments' operating income to consolidated income before provision for income taxes is as follows:

		(dollars in millions)		
Years Ended December 31,		2019	2018	2017
<b>Operating Income</b>				
Total reportable segments	\$	32,723	\$ 32,179	\$ 29,214
Corporate and other		(1,403)	(1,326)	(1,119)
Reconciling items:				
Severance charges		(204)	(2,157)	(497)
Other components of net periodic pension and benefit (charges) credits (Note 11)		(813)	(823)	(800)
Net gain on sale of divested businesses (Note 3)		—	—	1,774
Acquisition and integration related charges (Note 3)		—	(553)	(884)
Gain on spectrum license transactions (Note 3)		—	—	270
Operating results from divested businesses		—	—	149
Impairment charges		(186)	(4,591)	—
Product realignment charges		—	(451)	(682)
Net gain from dispositions of assets and businesses		261	—	—
<b>Consolidated operating income</b>		<b>30,378</b>	<b>22,278</b>	<b>27,425</b>
Equity in losses of unconsolidated businesses		(15)	(186)	(77)
Other income (expense), net		(2,900)	2,364	(2,021)
Interest expense		(4,730)	(4,833)	(4,733)
<b>Income Before (Provision) Benefit For Income Taxes</b>	<b>\$</b>	<b>22,733</b>	<b>\$ 19,623</b>	<b>\$ 20,594</b>

No single customer accounted for more than 10% of our total operating revenues during the years ended December 31, 2019, 2018 and 2017. International operating revenues are not significant.

The chief operating decision maker does not review disaggregated assets on a segment basis; therefore, such information is not presented. Depreciation included in the measure of segment profitability is primarily allocated based on proportional usage.

## Note 14. Equity and Comprehensive Income

### Equity

In December 2019, 46,100 preferred shares of a foreign affiliate of Verizon was sold for cash consideration of \$51 million and is reflected in non-controlling interests. The preferred shares pay cumulative dividends of 8.25% per annum.



## Common Stock

In February 2020, the Verizon Board of Directors authorized a share buyback program to repurchase up to 100 million shares of the Company's common stock. The program will terminate when the aggregate number of shares purchased reaches 100 million, or a new share repurchase plan superseding the current plan is authorized, whichever is sooner. During the years ended December 31, 2019, 2018, and 2017, Verizon did not repurchase any shares of Verizon's common stock under our previously authorized share buyback programs. At December 31, 2019, the maximum number of shares that could be purchased by or on behalf of Verizon under our share buyback program was 100 million.

Common stock has been used from time to time to satisfy some of the funding requirements of employee and shareholder plans. During the years ended December 31, 2019, 2018, and 2017, we issued 3.8 million, 3.5 million and 2.8 million common shares from Treasury stock, respectively, which had an insignificant aggregate value.

In connection with our acquisition of Straight Path in February 2018, we issued approximately 49 million shares of Verizon common stock, valued at approximately \$2.4 billion.

## Accumulated Other Comprehensive Income

Comprehensive income consists of net income and other gains and losses affecting equity that, under U.S. GAAP, are excluded from net income. Significant changes in the components of Other comprehensive income, net of provision for income taxes are described below.

The changes in the balances of Accumulated other comprehensive income by component are as follows:

(dollars in millions)	Foreign currency translation adjustments	Unrealized gains (losses) on cash flow hedges	Unrealized gains (losses) on marketable securities	Defined benefit pension and postretirement plans	Total
Balance at January 1, 2017	\$ (713)	\$ (80)	\$ 46	\$ 3,420	\$ 2,673
Other comprehensive income	245	818	10	327	1,400
Amounts reclassified to net income	—	(849)	(24)	(541)	(1,414)
Net other comprehensive income (loss)	245	(31)	(14)	(214)	(14)
Balance at December 31, 2017	(468)	(111)	32	3,206	2,659
Opening balance sheet adjustment (Note 1)	(15)	(24)	(13)	682	630
Adjusted opening balance	(483)	(135)	19	3,888	3,289
Other comprehensive income (loss)	(117)	(574)	—	(164)	(855)
Amounts reclassified to net income	—	629	1	(694)	(64)
Net other comprehensive income (loss)	(117)	55	1	(858)	(919)
Balance at December 31, 2018	(600)	(80)	20	3,030	2,370
Other comprehensive income (loss)	16	(699)	8	—	(675)
Amounts reclassified to net income	—	(37)	(1)	(659)	(697)
Net other comprehensive income (loss)	16	(736)	7	(659)	(1,372)
<b>Balance at December 31, 2019</b>	<b>\$ (584)</b>	<b>\$ (816)</b>	<b>\$ 27</b>	<b>\$ 2,371</b>	<b>\$ 998</b>

The amounts presented above in net other comprehensive income (loss) are net of taxes. The amounts reclassified to net income related to unrealized gains (losses) on cash flow hedges in the table above are included in Other income (expense), net and Interest expense in our consolidated statements of income. See Note 9 for additional information. The amounts reclassified to net income related to unrealized gains (losses) on marketable securities in the table above are included in Other income (expense), net in our consolidated statements of income. The amounts reclassified to net income related to defined benefit pension and postretirement plans in the table above are included in Cost of services and Selling, general and administrative expense in our consolidated statements of income. See Note 11 for additional information.

## Note 15. Additional Financial Information

The following tables provide additional financial information related to our consolidated financial statements:

### Income Statement Information

Years Ended December 31,	(dollars in millions)		
	2019	2018	2017
Depreciation expense	\$ 14,371	\$ 15,186	\$ 14,741
Interest costs on debt balances	5,221	5,399	5,256
Net amortization of debt discount	165	174	155
Capitalized interest costs	(656)	(740)	(678)
Advertising expense	3,071	2,682	2,643
<b>Other income (expense), net</b>			
Interest income	\$ 121	\$ 94	\$ 82
Other components of net periodic benefit (cost) income	627	3,068	(11)
Early debt extinguishment costs	(3,604)	(725)	(1,983)
Other, net	(44)	(73)	(109)
	<u>\$ (2,900)</u>	<u>\$ 2,364</u>	<u>\$ (2,021)</u>

### Balance Sheet Information

At December 31,	(dollars in millions)	
	2019	2018
<b>Prepaid expenses and other</b>		
Prepaid taxes	\$ 2,438	\$ 348
Deferred contract costs	2,578	2,083
Restricted cash	1,221	1,047
Other prepaid expense and other	1,791	1,975
	<u>\$ 8,028</u>	<u>\$ 5,453</u>
<b>Accounts payable and accrued liabilities</b>		
Accounts payable	\$ 7,725	\$ 7,232
Accrued expenses	5,984	5,948
Accrued vacation, salaries and wages	4,885	6,268
Interest payable	1,441	1,570
Taxes payable	1,771	1,483
	<u>\$ 21,806</u>	<u>\$ 22,501</u>
<b>Other current liabilities</b>		
Dividends payable	\$ 2,566	\$ 2,512
Contract liability	4,651	4,207
Other	1,807	1,520
	<u>\$ 9,024</u>	<u>\$ 8,239</u>

## Cash Flow Information

	(dollars in millions)			
Years Ended December 31,	2019		2018	2017
<b>Cash Paid</b>				
Interest, net of amounts capitalized	\$	4,714	\$ 4,408	\$ 4,369
Income taxes, net of amounts refunded		3,583	2,213	4,432
<b>Other, net Cash Flows from Operating Activities</b>				
Changes in device payment plan agreement non-current receivables	\$	23	\$ (509)	\$ (579)
Early debt extinguishment costs		3,604	725	1,983
Other, net		(228)	3	(728)
	\$	3,399	\$ 219	\$ 676
<b>Other, net Cash Flows from Financing Activities</b>				
Net debt related costs	\$	(1,797)	\$ (141)	\$ (3,599)
Change in short-term obligations, excluding current maturities		—	(790)	(170)
Other, net		(1,120)	(893)	(670)
	\$	(2,917)	\$ (1,824)	\$ (4,439)

### Note 16. Commitments and Contingencies

In the ordinary course of business, Verizon is involved in various commercial litigation and regulatory proceedings at the state and federal level. Where it is determined, in consultation with counsel based on litigation and settlement risks, that a loss is probable and estimable in a given matter, the Company establishes an accrual. In none of the currently pending matters is the amount of accrual material. An estimate of the reasonably possible loss or range of loss in excess of the amounts already accrued cannot be made at this time due to various factors typical in contested proceedings, including: (1) uncertain damage theories and demands; (2) a less than complete factual record; (3) uncertainty concerning legal theories and their resolution by courts or regulators; and (4) the unpredictable nature of the opposing party and its demands. We continuously monitor these proceedings as they develop and adjust any accrual or disclosure as needed. We do not expect that the ultimate resolution of any pending regulatory or legal matter in future periods will have a material effect on our financial condition, but it could have a material effect on our results of operations for a given reporting period.

Verizon is currently involved in approximately 25 federal district court actions alleging that Verizon is infringing various patents. Most of these cases are brought by non-practicing entities and effectively seek only monetary damages; a small number are brought by companies that have sold products and could seek injunctive relief as well. These cases have progressed to various stages and a small number may go to trial in the coming 12 months if they are not otherwise resolved.

In connection with the execution of agreements for the sales of businesses and investments, Verizon ordinarily provides representations and warranties to the purchasers pertaining to a variety of nonfinancial matters, such as ownership of the securities being sold, as well as indemnity from certain financial losses. From time to time, counterparties may make claims under these provisions, and Verizon will seek to defend against those claims and resolve them in the ordinary course of business.

Subsequent to the sale of Verizon Information Services Canada in 2004, we continue to provide a guarantee to publish directories, which was issued when the directory business was purchased in 2001 and had a 30-year term (before extensions). The preexisting guarantee continues, without modification, despite the subsequent sale of Verizon Information Services Canada and the spin-off of our domestic print and Internet yellow pages directories business. The possible financial impact of the guarantee, which is not expected to be adverse, cannot be reasonably estimated as a variety of the potential outcomes available under the guarantee result in costs and revenues or benefits that may offset each other. We do not believe performance under the guarantee is likely.

As of December 31, 2019, letters of credit totaling approximately \$632 million, which were executed in the normal course of business and support several financing arrangements and payment obligations to third parties, were outstanding.

During 2019, Verizon entered into a renewable energy purchase agreement (REPA) with a third party. The REPA is based on the expected operation of a renewable energy-generating facility and has a fixed price term of 12 years from the commencement of the facility's entry into commercial operation, which is expected to begin by the end of 2020. The REPA generally is expected to be financially settled based on the prevailing market price as energy is generated by the facility.

We have various commitments, totaling \$18.8 billion, primarily to purchase programming and network services, equipment, software and marketing services, which will be used or sold in the ordinary course of business, from a variety of suppliers. Of this total amount, \$8.4 billion is attributable to 2020, \$7.5 billion is attributable to 2021 through 2022, \$1.4 billion is attributable to 2023 through 2024 and \$1.5 billion is attributable to years thereafter. These amounts do not represent our entire anticipated purchases in the future, but represent only those items that are the subject of contractual obligations. Our commitments are generally determined based on the noncancelable quantities or termination

amounts. Purchases against our commitments totaled approximately \$10.9 billion for 2019, \$9.0 billion for 2018 and \$8.2 billion for 2017. Since the commitments to purchase programming services from television networks and broadcast stations have no minimum volume requirement, we estimated our obligation based on number of subscribers at December 31, 2019, and applicable rates stipulated in the contracts in effect at that time. We also purchase products and services as needed with no firm commitment.

**Note 17. Quarterly Financial Information (Unaudited)**

(dollars in millions, except per share amounts)						
Quarter Ended	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Full Year	
2019						
Operating Revenues	\$ 32,128	\$ 32,071	\$ 32,894	\$ 34,775	\$ 131,868	
Operating Income	7,709	7,850	8,180	6,639	30,378	
Net Income	5,160	4,074	5,337	5,217	19,788	
Net Income Attributable to Verizon	5,032	3,944	5,194	5,095	19,265	
Basic Earnings Per Share Attributable to Verizon <sup>(1)</sup>	\$ 1.22	\$ 0.95	\$ 1.26	\$ 1.23	\$ 4.66	
Diluted Earnings Per Share Attributable to Verizon <sup>(1)</sup>	\$ 1.22	\$ 0.95	\$ 1.25	\$ 1.23	\$ 4.65	
2018						
Operating Revenues	\$ 31,772	\$ 32,203	\$ 32,607	\$ 34,281	\$ 130,863	
Operating Income	7,349	6,617	7,675	637	22,278	
Net Income	4,666	4,246	5,062	2,065	16,039	
Net Income Attributable to Verizon	4,545	4,120	4,924	1,939	15,528	
Basic Earnings Per Share Attributable to Verizon <sup>(1)</sup>	\$ 1.11	\$ 1.00	\$ 1.19	\$ 0.47	\$ 3.76	
Diluted Earnings Per Share Attributable to Verizon <sup>(1)</sup>	\$ 1.11	\$ 1.00	\$ 1.19	\$ 0.47	\$ 3.76	

<sup>(1)</sup> Net income attributable to Verizon per common share is computed independently for each quarter and the sum of the quarters may not equal the annual amount.

Results of operations for 2019 and 2018 include the following after-tax charges (credits) attributable to Verizon:

(dollars in millions)									
	2019				2018				
	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	
Severance, pension and benefits charges (credits)	\$ (71)	\$ —	\$ 215	\$ 108	\$ —	\$ 250	\$ (335)	\$ 108	
Early debt redemption costs	—	1,140	—	1,520	184	—	352	—	
Acquisition and integration related charges	—	—	—	—	82	92	103	142	
Product realignment charges	—	—	—	—	—	509	—	—	
Net gain from dispositions of assets and businesses	—	—	(224)	—	—	—	—	—	
Disposition of preferred stock	—	—	—	(2,247)	—	—	—	—	
Impairment charges	—	—	—	214	—	—	—	4,527	
Historical Wireless legal entity restructuring	—	—	—	—	—	—	—	(2,065)	

**Disposition of Preferred Stock**

During the fourth quarter of 2019, we completed the disposition of preferred stock, representing a minority interest in a foreign affiliate, which resulted in a non-recurring income tax benefit of approximately \$2.2 billion in our consolidated statement of income for the year ended December 31, 2019.

**Historical Wireless Legal Entity Restructuring**

During the fourth quarter of 2018, we completed an internal reorganization of legal entities within the historical Wireless business which resulted in a non-recurring income tax benefit of approximately \$2.1 billion in our consolidated statement of income for the year ended December 31, 2018, which reduced our deferred tax liability by the same amount.

**Verizon Communications Inc. and Subsidiaries**  
Principal Subsidiaries of Registrant at December 31, 2019

<b>Name</b>	<b>State of Incorporation / Organization</b>
Verizon Delaware LLC	Delaware
Verizon Maryland LLC	Delaware
Verizon New England Inc.	New York
Verizon New Jersey Inc.	New Jersey
Verizon New York Inc.	New York
Verizon Pennsylvania LLC	Delaware
Verizon Virginia LLC	Virginia
Bell Atlantic Mobile Systems LLC	Delaware
Cellco Partnership (d/b/a Verizon Wireless)	Delaware
GTE LLC	Delaware
GTE Wireless LLC	Delaware
MCI Communications Corporation	Delaware
Verizon Americas Inc.	Delaware
Verizon Business Global LLC	Delaware

## Consent of Independent Registered Public Accounting Firm and Report on Schedule

**Consent**

We consent to the incorporation by reference in the following Registration Statements:

Form S-4, No. 333-11573; Form S-8, No. 333-41593; Form S-8, No. 333-50146; Form S-4, No. 333-76171; Form S-8, No. 333-76171; Form S-8, No. 333-53830; Form S-8, No. 333-82690; Form S-4, No. 333-124008; Form S-8, No. 333-124008; Form S-4, No. 333-132651; Form S-8, No. 333-172501; Form S-8, No. 333-172999; Form S-8, No. 333-200398; Form S-8, No. 333-217717; Form S-8, No. 333-223523; and Form S-3, No. 333-233608;

of our reports dated February 21, 2020, with respect to the consolidated financial statements and the effectiveness of internal control over financial reporting of Verizon Communications Inc. ("Verizon"), incorporated by reference in this Annual Report (Form 10-K) of Verizon for the year ended December 31, 2019, and the financial statement schedule of Verizon, included herein.

**Report on Schedule**

To the Shareholders and the Board of Directors of Verizon Communications Inc.:

We have audited the consolidated financial statements of Verizon as of December 31, 2019 and 2018, and for each of the three years in the period ended December 31, 2019, and have issued our report thereon dated February 21, 2020 incorporated by reference in this Annual Report (Form 10-K) of Verizon from the 2019 Annual Report to Shareholders of Verizon. Our audits of the consolidated financial statements included the financial statement schedule listed in Item 15(a) of this Annual Report (Form 10-K) (the "schedule"). This schedule is the responsibility of Verizon's management. Our responsibility is to express an opinion on Verizon's schedule based on our audits.

In our opinion, the schedule presents fairly, in all material respects, the information set forth therein when considered in conjunction with the consolidated financial statements.

/s/ Ernst & Young LLP

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Ernst & Young LLP  
New York, New York

February 21, 2020

## POWER OF ATTORNEY

WHEREAS, VERIZON COMMUNICATIONS INC., a Delaware corporation (hereinafter referred to as the “Company”), proposes to file with the Securities and Exchange Commission under the provisions of the Securities Exchange Act of 1934, as amended, an annual report on Form 10-K (the “Form 10-K”) for the fiscal year ended December 31, 2019.

NOW, THEREFORE, the undersigned hereby appoints Hans E. Vestberg, Matthew D. Ellis and Anthony T. Skiadas and each of them, her true and lawful attorneys-in-fact and agents with full power of substitution, for her and in her name, place and stead, in any and all capacities, to sign the Form 10-K and any and all amendments to the Form 10-K, and to file the same, with all exhibits thereto and all documents in connection therewith, making such changes in the Form 10-K as such person or persons so acting deems appropriate, with the Securities and Exchange Commission, granting unto said attorneys-in-fact and agents, and each of them, full power and authority to do and perform each and every act and thing requisite and necessary to be done in and about the premises, as fully to all intents and purposes as she might or could do in person, hereby ratifying and confirming all that said attorneys-in-fact and agents or any of them, or his, her or their substitute or substitutes, may lawfully do or cause to be done by virtue hereof.

IN WITNESS WHEREOF, the undersigned has executed this Power of Attorney this 20<sup>th</sup> day of February, 2020.

/s/ Shellye L. Archambeau

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Shellye L. Archambeau

POWER OF ATTORNEY

WHEREAS, VERIZON COMMUNICATIONS INC., a Delaware corporation (hereinafter referred to as the “Company”), proposes to file with the Securities and Exchange Commission under the provisions of the Securities Exchange Act of 1934, as amended, an annual report on Form 10-K (the “Form 10-K”) for the fiscal year ended December 31, 2019.

NOW, THEREFORE, the undersigned hereby appoints Hans E. Vestberg, Matthew D. Ellis and Anthony T. Skiadas and each of them, his true and lawful attorneys-in-fact and agents with full power of substitution, for him and in his name, place and stead, in any and all capacities, to sign the Form 10-K and any and all amendments to the Form 10-K, and to file the same, with all exhibits thereto and all documents in connection therewith, making such changes in the Form 10-K as such person or persons so acting deems appropriate, with the Securities and Exchange Commission, granting unto said attorneys-in-fact and agents, and each of them, full power and authority to do and perform each and every act and thing requisite and necessary to be done in and about the premises, as fully to all intents and purposes as he might or could do in person, hereby ratifying and confirming all that said attorneys-in-fact and agents or any of them, or his, her or their substitute or substitutes, may lawfully do or cause to be done by virtue hereof.

IN WITNESS WHEREOF, the undersigned has executed this Power of Attorney this 20<sup>th</sup> day of February, 2020.

/s/ Mark T. Bertolini

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Mark T. Bertolini



#### POWER OF ATTORNEY

WHEREAS, VERIZON COMMUNICATIONS INC., a Delaware corporation (hereinafter referred to as the “Company”), proposes to file with the Securities and Exchange Commission under the provisions of the Securities Exchange Act of 1934, as amended, an annual report on Form 10-K (the “Form 10-K”) for the fiscal year ended December 31, 2019.

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IN WITNESS WHEREOF, the undersigned has executed this Power of Attorney this 20<sup>th</sup> day of February, 2020.

/s/ Vittorio Colao

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Vittorio Colao

POWER OF ATTORNEY

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IN WITNESS WHEREOF, the undersigned has executed this Power of Attorney this 20<sup>th</sup> day of February, 2020.

/s/ Melanie L. Healey

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Melanie L. Healey

POWER OF ATTORNEY

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IN WITNESS WHEREOF, the undersigned has executed this Power of Attorney this 20<sup>th</sup> day of February, 2020.

/s/ Clarence Otis, Jr.

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Clarence Otis, Jr.

POWER OF ATTORNEY

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IN WITNESS WHEREOF, the undersigned has executed this Power of Attorney this 20<sup>th</sup> day of February, 2020.

/s/ Daniel H. Schulman

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Daniel H. Schulman

#### POWER OF ATTORNEY

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IN WITNESS WHEREOF, the undersigned has executed this Power of Attorney this 20<sup>th</sup> day of February, 2020.

/s/ Rodney E. Slater

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Rodney E. Slater

POWER OF ATTORNEY

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IN WITNESS WHEREOF, the undersigned has executed this Power of Attorney this 20<sup>th</sup> day of February, 2020.

/s/ Kathryn A. Tesija

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Kathryn A. Tesija

POWER OF ATTORNEY

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IN WITNESS WHEREOF, the undersigned has executed this Power of Attorney this 20<sup>th</sup> day of February, 2020.

/s/ Carol B. Tomé

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Carol B. Tomé

## POWER OF ATTORNEY

WHEREAS, VERIZON COMMUNICATIONS INC., a Delaware corporation (hereinafter referred to as the “Company”), proposes to file with the Securities and Exchange Commission under the provisions of the Securities Exchange Act of 1934, as amended, an annual report on Form 10-K (the “Form 10-K”) for the fiscal year ended December 31, 2019.

NOW, THEREFORE, the undersigned hereby appoints Matthew D. Ellis and Anthony T. Skiadas and each of them, his true and lawful attorneys-in-fact and agents with full power of substitution, for him and in his name, place and stead, in any and all capacities, to sign the Form 10-K and any and all amendments to the Form 10-K, and to file the same, with all exhibits thereto and all documents in connection therewith, making such changes in the Form 10-K as such person or persons so acting deems appropriate, with the Securities and Exchange Commission, granting unto said attorneys-in-fact and agents, and each of them, full power and authority to do and perform each and every act and thing requisite and necessary to be done in and about the premises, as fully to all intents and purposes as he might or could do in person, hereby ratifying and confirming all that said attorneys-in-fact and agents or any of them, or his, her or their substitute or substitutes, may lawfully do or cause to be done by virtue hereof.

IN WITNESS WHEREOF, the undersigned has executed this Power of Attorney this 20<sup>th</sup> day of February, 2020.

/s/ Hans E. Vestberg

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Hans E. Vestberg



POWER OF ATTORNEY

WHEREAS, VERIZON COMMUNICATIONS INC., a Delaware corporation (hereinafter referred to as the “Company”), proposes to file with the Securities and Exchange Commission under the provisions of the Securities Exchange Act of 1934, as amended, an annual report on Form 10-K (the “Form 10-K”) for the fiscal year ended December 31, 2019.

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IN WITNESS WHEREOF, the undersigned has executed this Power of Attorney this 20<sup>th</sup> day of February, 2020.

/s/ Gregory G. Weaver

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Gregory G. Weaver

POWER OF ATTORNEY

WHEREAS, VERIZON COMMUNICATIONS INC., a Delaware corporation (hereinafter referred to as the “Company”), proposes to file with the Securities and Exchange Commission under the provisions of the Securities Exchange Act of 1934, as amended, an annual report on Form 10-K (the “Form 10-K”) for the fiscal year ended December 31, 2019.

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IN WITNESS WHEREOF, the undersigned has executed this Power of Attorney this 20<sup>th</sup> day of February, 2020.

/s/ Matthew D. Ellis

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Matthew D. Ellis

## POWER OF ATTORNEY

WHEREAS, VERIZON COMMUNICATIONS INC., a Delaware corporation (hereinafter referred to as the “Company”), proposes to file with the Securities and Exchange Commission under the provisions of the Securities Exchange Act of 1934, as amended, an annual report on Form 10-K (the “Form 10-K”) for the fiscal year ended December 31, 2019.

NOW, THEREFORE, the undersigned hereby appoints Hans E. Vestberg and Matthew D. Ellis and each of them, his true and lawful attorneys-in-fact and agents with full power of substitution, for him and in his name, place and stead, in any and all capacities, to sign the Form 10-K and any and all amendments to the Form 10-K, and to file the same, with all exhibits thereto and all documents in connection therewith, making such changes in the Form 10-K as such person or persons so acting deems appropriate, with the Securities and Exchange Commission, granting unto said attorneys-in-fact and agents, and each of them, full power and authority to do and perform each and every act and thing requisite and necessary to be done in and about the premises, as fully to all intents and purposes as he might or could do in person, hereby ratifying and confirming all that said attorneys-in-fact and agents or any of them, or his, her or their substitute or substitutes, may lawfully do or cause to be done by virtue hereof.

IN WITNESS WHEREOF, the undersigned has executed this Power of Attorney this 20<sup>th</sup> day of February, 2020.

/s/ Anthony T. Skiadas

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Anthony T. Skiadas

I, Hans E. Vestberg, certify that:

1. I have reviewed this annual report on Form 10-K of Verizon Communications Inc.;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
  - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
  - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
  - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
  - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
  - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: February 21, 2020

/s/ Hans E. Vestberg

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Hans E. Vestberg

Chairman and Chief Executive Officer

I, Matthew D. Ellis, certify that:

1. I have reviewed this annual report on Form 10-K of Verizon Communications Inc.;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
  - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
  - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
  - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
  - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
  - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: February 21, 2020

/s/ Matthew D. Ellis

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Matthew D. Ellis

Executive Vice President and Chief Financial Officer

## CERTIFICATION OF CHIEF EXECUTIVE OFFICER PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002, PURSUANT TO SECTION 1350 OF CHAPTER 63 OF TITLE 18 OF THE UNITED STATES CODE

I, Hans E. Vestberg, Chairman and Chief Executive Officer of Verizon Communications Inc. (the Company), certify that:

- (1) the report of the Company on Form 10-K for the annual period ending December 31, 2019 (the Report) fully complies with the requirements of section 13(a) of the Securities Exchange Act of 1934 (the Exchange Act); and
- (2) the information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company as of the dates and for the periods referred to in the Report.

Date: February 21, 2020

/s/ Hans E. Vestberg

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Hans E. Vestberg

Chairman and Chief Executive Officer

A signed original of this written statement required by Section 906, or other document authenticating, acknowledging, or otherwise adopting the signature that appears in typed form within the electronic version of this written statement required by Section 906, has been provided to Verizon Communications Inc. and will be retained by Verizon Communications Inc. and furnished to the Securities and Exchange Commission or its staff upon request.

## CERTIFICATION OF CHIEF FINANCIAL OFFICER PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002, PURSUANT TO SECTION 1350 OF CHAPTER 63 OF TITLE 18 OF THE UNITED STATES CODE

I, Matthew D. Ellis, Executive Vice President and Chief Financial Officer of Verizon Communications Inc. (the Company), certify that:

- (1) the report of the Company on Form 10-K for the annual period ending December 31, 2019 (the Report) fully complies with the requirements of section 13(a) of the Securities Exchange Act of 1934 (the Exchange Act); and
- (2) the information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company as of the dates and for the periods referred to in the Report.

Date: February 21, 2020

/s/ Matthew D. Ellis

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Matthew D. Ellis

Executive Vice President and Chief Financial Officer

A signed original of this written statement required by Section 906, or other document authenticating, acknowledging, or otherwise adopting the signature that appears in typed form within the electronic version of this written statement required by Section 906, has been provided to Verizon Communications Inc. and will be retained by Verizon Communications Inc. and furnished to the Securities and Exchange Commission or its staff upon request.