



VodafoneZiggo Group B.V.

**Annual Report
December 31, 2022**

**VodafoneZiggo Group B.V.
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FORWARD-LOOKING STATEMENTS

Certain statements in this Annual Report constitute forward-looking statements. To the extent that statements in this Annual Report are not recitations of historical fact, such statements constitute forward-looking statements, which, by definition, involve risks and uncertainties that could cause actual results to differ materially from those expressed or implied by such statements. In particular, statements under *Management's Discussion and Analysis of Financial Condition and Results of Operations* may contain forward-looking statements, including statements regarding our business, product, foreign currency and finance strategies, subscriber growth and retention rates, competitive, regulatory and economic factors, the timing and impacts of proposed transactions, the maturity of our market, the potential impact of the coronavirus (**COVID-19**) and other large-scale health crises on our company, the anticipated impacts of new legislation (or changes to existing rules and regulations), anticipated changes in our revenue, costs or growth rates, our liquidity, credit risks, foreign currency risks, interest rate risks, target leverage levels, our future projected contractual commitments and cash flows and other information and statements that are not historical fact. Where, in any forward-looking statement, we express an expectation or belief as to future results or events, such expectation or belief is expressed in good faith and believed to have a reasonable basis, but there can be no assurance that the expectation or belief will result or be achieved or accomplished. In evaluating these statements, you should consider the risks and uncertainties in the following list, and those described herein, as some but not all of the factors that could cause actual results or events to differ materially from anticipated results or events:

- economic and business conditions and industry trends in the Netherlands;
- the competitive environment in the Netherlands for both the fixed and mobile markets, including fiber roll-out plans of our competitors and their responses to our products and services for our residential and business customers;
- fluctuations in currency exchange rates and interest rates;
- instability in global financial markets, including sovereign debt issues and related fiscal reforms;
- consumer disposable income and spending levels, including the availability and amount of individual consumer debt, as a result of among other things, inflationary pressures;
- changes in consumer television viewing and mobile and broadband usage preferences and habits;
- customer acceptance of our existing service offerings, including our cable television, broadband internet, fixed-line telephony, mobile and business service offerings, and of new technology, programming alternatives and other products and services that we may offer in the future;
- the outcome of governmental requests for proposals related to contracts for B2B communication services;
- our ability to manage rapid technological changes and the rate at which our current technology becomes obsolete;
- our ability to maintain or increase the number of subscriptions to our broadband internet, television, fixed-line telephony and mobile service offerings and our average revenue per household;
- our ability to provide satisfactory customer service, including support for new and evolving products and services;
- our ability to maintain or increase rates to our subscribers or to pass through increased costs to our subscribers as a result of, among other things, inflationary pressures and fluctuating energy costs;
- the impact of our future financial performance, or market conditions generally, on the availability, terms and deployment of capital;
- changes in, or failure or inability to comply with, applicable laws and/or government regulations and legislation in the Netherlands and adverse outcomes from regulatory proceedings, including regulation related to interconnect rates;
- government and/or regulatory intervention that requires opening our broadband distribution network to competitors, and/or other regulatory interventions;
- our ability to obtain regulatory approval and satisfy other conditions necessary to close acquisitions and dispositions and the impact of conditions imposed by competition and other regulatory authorities in connection with acquisitions;

- our ability to successfully acquire new businesses and, if acquired, to integrate, realize anticipated efficiencies from, and implement our business plan with respect to the businesses we have acquired;
- changes in laws or treaties relating to taxation, or the interpretation thereof, in the Netherlands;
- changes in laws, monetary policies and government regulations that may impact the availability or cost of capital and the derivative instruments that hedge certain of our financial risks;
- the ability of suppliers and vendors to timely deliver quality products, equipment, software, services and access;
- the availability of attractive programming for our video services and the costs associated with such programming, including production costs, retransmission and copyright fees payable to public and private broadcasters;
- uncertainties inherent in the development and integration of new business lines and business strategies;
- our ability to adequately forecast and plan future network requirements;
- the availability and cost of capital for the acquisition and/or development of telecommunications networks and services;
- the availability, cost and regulation of spectrum;
- problems we may discover post-closing with the operations, including the internal controls and financial reporting processes, of businesses we acquire;
- our ability to protect against, mitigate and contain loss of our and our customers' data as a result of cyber attacks on us;
- leakage of sensitive customer data;
- the outcome of any pending or threatened litigation;
- the loss of key employees and the availability of qualified personnel;
- changes in the nature of key strategic relationships with partners and shareholders;
- our capital structure and factors related to our debt arrangements; and
- events that are outside of our control, such as political unrest in international markets, terrorist attacks, malicious human acts, natural disasters, pandemics or epidemics (such as COVID-19) and other similar events, including the ongoing invasion of Ukraine by Russia.

The broadband distribution and mobile service industries are changing rapidly and, therefore, the forward-looking statements of expectations, plans and intent in this Annual Report are subject to a significant degree of risk. These forward-looking statements and the above-described risks, uncertainties and other factors speak only as of the date of this Annual Report, and we expressly disclaim any obligation or undertaking to disseminate any updates or revisions to any forward-looking statement contained herein, to reflect any change in our expectations with regard thereto, or any other change in events, conditions or circumstances on which any such statement is based. Readers are cautioned not to place undue reliance on any forward-looking statement.

BUSINESS OF VODAFONEZIGGO

In this “Business of VodafoneZiggo” section, unless the context otherwise requires, the terms “we,” “our,” “our company” and “us” may refer, as the context requires, to VodafoneZiggo (or its predecessor, herein referred to as “Former Ziggo”) or collectively to VodafoneZiggo (or its predecessor) and its subsidiaries. Unless otherwise indicated, operational and statistical data, including subscriber statistics and product offerings, are as of December 31, 2022.

Introduction

VodafoneZiggo Group B.V. (**VodafoneZiggo**) provides fixed, mobile and integrated communication and entertainment services to consumers and businesses in the Netherlands.

Prior to the closing of the JV Transaction, as defined in note 1 to our consolidated financial statements, VodafoneZiggo was a wholly-owned subsidiary of Liberty Global plc (**Liberty Global**). On December 31, 2016, upon closing the JV Transaction, VodafoneZiggo became a wholly-owned subsidiary of VodafoneZiggo Group Holding B.V. (**VodafoneZiggo Group Holding**). VodafoneZiggo Group Holding is a 50:50 joint venture (the **VodafoneZiggo JV**) between Vodafone Group Plc (**Vodafone**) and Liberty Global. In connection with the closing of the JV Transaction, Vodafone NL became an indirect wholly-owned subsidiary of VodafoneZiggo. Prior to the closing of the JV Transaction, Vodafone NL and its subsidiaries operated Vodafone’s mobile business in the Netherlands.

Liberty Global is one of the world's leading converged video, broadband and communications companies. It delivers next-generation products through advanced fiber and 5G networks that connect over 86 million retail and wholesale subscribers across Europe and the United Kingdom. Liberty Global’s businesses operates under some of the best-known consumer brands, including Virgin Media-O2 in the UK, VodafoneZiggo in the Netherlands, Sunrise UPC in Switzerland, Telenet in Belgium, Virgin Media in Ireland and UPC in Eastern Europe. Liberty Global, through its global investment arm Liberty Global Ventures, has a portfolio of more than 75 companies across content, technology and infrastructure, including strategic stakes in companies like Plume, ITV, Televisa Univision, AtlasEdge and the Formula E racing series.

Unique in its scale as the largest pan-European and African technology communications company, Vodafone transforms the way we live and work through its innovation, technology, connectivity, platforms, products and services. Vodafone operates mobile and fixed networks in 21 countries and partners with mobile networks in 47 more. As of 31 December 2022, Vodafone had over 330 million mobile customers, more than 28 million fixed broadband customers, and 21 million TV customers. Vodafone is a world leader in the Internet of Things (**IoT**), connecting over 155 million devices and platforms through innovation that aligns with the aspirations of society for cleaner and safer cities, better transport and improved agriculture. Vodafone’s digital leadership is also changing how governments deliver healthcare and education, and how businesses, particularly Small and Medium Enterprises, serve customers.

In connection with the JV Transaction, on December 31, 2016, Liberty Global and Vodafone entered into a shareholders agreement (the **Shareholders Agreement**) with VodafoneZiggo Group Holding in respect of the VodafoneZiggo JV. Each of Liberty Global and Vodafone (each a **Shareholder**) holds 50% of the issued share capital of VodafoneZiggo Group Holding. The Shareholders Agreement contains customary provisions for the governance of a 50:50 joint venture that result in Liberty Global and Vodafone having joint control over decision making with respect to the VodafoneZiggo JV. We also entered into framework agreements with Vodafone and Liberty Global to provide us access to each of their expertise in the telecommunications media technology business. For additional information on these agreements, see note 11 to our consolidated financial statements.

Operating Data

The following table presents our operating statistics as of December 31, 2022:

Footprint	
Homes Passed ¹	7,373,300
Fixed Customer Relationships	
Fixed Customer Relationships ²	3,676,200
RGUs per Fixed Customer Relationship	2.38
Mobile SIMs³	
Postpaid	5,156,900
Prepaid	370,700
Total Mobile	<u>5,527,600</u>
Convergence⁴	
Converged Households	1,524,100
Converged SIMs	2,566,200
Converged Households as a % of Internet RGUs	46%
Subscribers (RGUs)	
Video ⁵	3,664,700
Internet ⁶	3,307,000
Telephony ⁷	1,786,600
Total RGUs ⁸	<u>8,758,300</u>

- Homes Passed are homes, residential multiple dwelling units or commercial units that can be connected to our networks without materially extending the distribution plant. Our Homes Passed counts are based on internally maintained databases of connected addresses, which are updated monthly. Due to the fact that we do not own the partner networks, we do not report homes passed for partner networks.
- Fixed Customer Relationships are the number of customers who receive at least one of our video, internet or telephony services that we count as an Revenue Generating Unit (RGU), without regard to which or to how many services they subscribe. Fixed Customer Relationships generally are counted on a unique premises basis. Accordingly, if an individual receives our services in two premises (e.g., a primary home and a vacation home), that individual generally will count as two Fixed Customer Relationships. We exclude mobile-only customers from Fixed Customer Relationships.
- Our mobile subscriber count represents the number of active subscriber identification module (SIM) cards in service rather than services provided. For example, if a mobile subscriber has both a data and voice plan on a smartphone this would equate to one mobile subscriber. Alternatively, a subscriber who has a voice and data plan for a mobile handset and a data plan for a laptop (mobile broadband or secondary SIM) would be counted as two mobile subscribers. Our mobile subscriber count includes both prepaid and postpaid plans. Prepaid customers are excluded from our prepaid mobile telephony subscriber counts after a period of inactivity of 9 months.
- Converged households or converged SIMs represent customers in either our Consumer or Small or Home Office (SOHO) segment that subscribe to both a fixed-line digital TV and an internet service (like Connect Start, Complete and Max) and Vodafone and/or hollandsnieuwe postpaid mobile telephony service.
- Video Subscriber is a home, residential multiple dwelling unit or commercial unit that receives our video service over our broadband network or through a partner network via a digital video signal. Video Subscribers are counted on a unique premises basis. For example, a subscriber with one or more set-top boxes that receives our video service in one premises is generally counted as just one subscriber and a subscriber with two homes and a subscription to our video service at each home is counted as two RGUs.
- Internet Subscriber is a home, residential multiple dwelling unit or commercial unit that receives internet services over our networks, or that we service through a partner network.
- Telephony Subscriber is a home, residential multiple dwelling unit or commercial unit that receives voice services over our networks, or that we service through a partner network. Telephony Subscribers exclude mobile telephony subscribers.
- An RGU is, separately, a Video Subscriber, Internet Subscriber or Telephony Subscriber (each as defined and described below). A home, residential multiple dwelling unit, or commercial unit may contain one or more RGUs. For example, if a residential customer in our market subscribed to our enhanced video service, fixed-line telephony service and broadband internet service, the customer would constitute three

RGUs. Total RGUs is the sum of Basic Video, Enhanced Video, Internet and Telephony Subscribers. RGUs generally are counted on a unique premises basis such that a given premises does not count as more than one RGU for any given service. On the other hand, if an individual receives one of our services in two premises (e.g. a primary home and a vacation home), that individual will count as two RGUs for that service. Each bundled video, internet or telephony service is counted as a separate RGU regardless of the nature of any bundling discount or promotion. Non-paying subscribers are counted as subscribers during their free promotional service period. Some of these subscribers may choose to disconnect after their free service period. Services offered without charge on a long-term basis (e.g., VIP subscribers, or free service to employees) generally are not counted as RGUs. We do not include subscriptions to mobile services in our externally reported RGU counts. In this regard, our December 31, 2022 RGU counts exclude our separately reported prepaid and postpaid mobile subscribers.

Products and Services

We provide services either individually or bundled as a package for video, broadband internet, fixed-line telephony, and mobile services to residential and business customers. Our bundled services offerings include “**double-play**” for two services, “**triple-play**” for three services, and “**quad-play**” for four services.

WiFi and Internet Services

Connectivity is a building block for vibrant communities. Our fiber-rich broadband network is the backbone of our fixed-line business and the basis of our connectivity strategy. To meet our customers’ expectations to be seamlessly connected, we are investing in our broadband network, mobile, WiFi solutions, and customer premises equipment.

Internet speed is of crucial importance to our customers, as they spend more time streaming video and other bandwidth heavy services on multiple devices. Our extensive broadband network enables us to deliver ultra high-speed internet service across our footprint. In December 2022 we finalized the roll out of 1 Gbps across our footprint covering 7.3 million households. Our residential subscribers access the internet via cable modems connected to their internet capable devices, or wirelessly via a WiFi gateway device. We offer multiple tiers of internet services, ranging from a basic service of 100 Mbps to an ultra high-speed internet service of 1 Gbps in our entire footprint. In April 2022, we increased the average internet speeds for the majority of our customers. In January 2023, we announced an average of 40% internet upload speeds increases across all internet packages from May 1, 2023. The speed of service depends on the tier of service selected and the location. By leveraging our fiber-rich broadband network, and deploying the next generation Data Over Cable Service Interface Specification (**DOCSIS**) 3.1 technology, we can extend our download speeds to at least 1 Gbps where deployed. DOCSIS technology is an international standard that defines the requirements for data transmission over a cable system.

Our internet service generally includes email, address book, security (e.g., anti-virus, anti-spyware, firewall, and spam protection) and parental controls. We offer value-added broadband services for an incremental charge. These services include additional security packages for multiple devices. We offer mobile broadband services with internet access as described above. Subscribers to our internet service pay a monthly fee based on the tier of service selected. In addition to the monthly fee, customers pay an activation service fee upon subscribing to an internet service. This one-time fee may be waived for promotional reasons. We determine pricing for each different tier of internet service through an analysis of speed, market conditions, and other factors.

Our “**SmartWiFi modem**” is a dedicated connectivity device that delivers superior in-home WiFi coverage. The SmartWiFi modem is a WiFi and telephony gateway that enables us to maximize the impact of our ultrafast broadband networks by providing reliable wireless connectivity anywhere in the home. It has an automatic WiFi optimization function, which selects the best possible wireless frequency at any given time. This gateway can be self-installed and allows customers to customize their home WiFi service. Robust wireless connectivity is increasingly important with our customers spending more and more time using bandwidth-heavy services on multiple devices. In August 2021, 2.2 million customers received a free software modem upgrade, adding new SmartWiFi features to enable Mesh WiFi technology and optimize in-home internet coverage, supported by “**SmartWiFi pods**” and our “**SmartWiFi app**”. Among other features, our SmartWiFi app allows our customers to optimize their WiFi coverage and manage their connected devices. In addition, we provide intelligent WiFi mesh boosters, which increase speed, reliability and coverage by adapting to the environment at home. Specifically, the recent introduction of our next-generation SmartWiFi pods has resulted in an improvement in the customer’s experience of their in-home broadband connection. By the end of 2022, we have delivered 1.6 million (approximately 48% of internet RGU’s) SmartWiFi pods to our customer homes. We will continue to roll out SmartWiFi pods in 2023, as optimal home WiFi coverage will continue to be an important part of our GigaNet.

We have deployed community WiFi via routers in our customers' homes (the **Community WiFi**), which provides secure access to the internet for our customers. Community WiFi is enabled by a cable modem WiFi access point (**WiFi modem**), the SmartWiFi modem, or the Mediabox XL of our internet customers. The Community WiFi is created through the sharing of access to the public channel of our customers' home wireless routers. Use of the Community WiFi does not affect the internet speeds of our customers. The public channel is a separate network from the secure private network used by the customer within the home and is automatically enabled when the WiFi modem is installed. Access is free for our internet customers. Our customers also have access to an extensive network of public WiFi access points, (covering stadiums, shopping centers, and other public places). We have expanded our Community WiFi through access points covering public places. In addition, our internet customers have access to the Community WiFi in other European countries through an arrangement with Liberty Global.

Mobile Services

Mobile services are another key building block for us to provide customers with seamless connectivity. We provide our mobile services nationwide through our long-term evolution (**LTE**) wireless services, also called "4G", as well as our 2G networks. In 2020, we deactivated our 3G network to free up more capacity for a faster and more stable 4G network. We also were the first in the Netherlands with a nationwide 5G network, using Dynamic Spectrum Sharing technology. Furthermore, we have established a 5G Hub in Eindhoven together with our partners Ericsson, Brainport Development and the High Tech Campus. On this location, companies, start-ups, authorities and students are joining forces to further explore ideas on the use of 5G.

In 2022 we expanded our footprint with approximately 200 macro sites (antenna locations), increased capacity on many existing sites and reached the milestone of 1,000 masts connected to our fiber. We comply with the 700MHz license obligation for speed and coverage. In the Umlaut 2022 mobile network test we received the grade 'very good'. As of December 31, 2022, we had around 4,800 macro sites and more than 4,000 of them had 5G DSS enabled, for which we optimized capacity efficiency. With these capabilities we offer nationwide, reliable high speed data transmission. Our mobile subscribers are able to call, text, access the internet, stream music, and watch videos both in and out of the home. We also provide mobile wholesale access services, hosting several mobile virtual network operators (**MVNO**) on our networks.

Our mobile services typically include voice, internet access, short message service (**SMS**) and Rich Communication Services. Calls, SMSs and data usage incur a charge or are covered under a monthly service plan. Our mobile services are primarily on a postpaid basis with customers subscribing for periods ranging from 1 to 2 years. They can opt for a SIM-only contract, or combine that with a mobile handset and the option to pay off the handset over a period not to exceed 24 months. We also offer a prepaid service, where the customers pay in advance for a pre-determined amount of airtime or data and generally have no minimum contract term.

We offer postpaid subscriptions under the '**Start**' and '**Red**' labels, with different sized or unlimited bundles of SMSs, voice calls and data. The '**Red Together**' subscription enables family members to merge subscriptions, resulting in one large (double) data bundle for all to share. When combined with Ziggo, Vodafone customers receive additional benefits, including a pricing discount and the data bundle is doubled. In 2022, all new and existing Vodafone customers with a suitable device and a Start or Red subscription or Vodafone prepaid received access to 5G at no extra cost. We also introduced VoLTE roaming for Vodafone and hollandsnieuwe customers abroad, especially to prevent loss of service in the USA, where operators switched off their 2G and 3G networks. In 2022, VodafoneZiggo supported the Ukrainian people with free mobile calls and text messages from and to Ukraine, prepaid SIM cards for refugees, and emergency WiFi and mobile coverage.

In 2022, we introduced Business Mobile. This allows our enterprise customers to select appropriate subscriptions per user, automatically share data bundles between these users, and to have all insights on one bill. It is also possible to receive additional data-only SIMs. Customers can further benefit by combining Business Mobile and Business Internet. In 2022, VodafoneZiggo was also the first Dutch telecom company to introduce Network Slicing on the mobile network. With this service, companies and organizations will be able to reserve 'a slice' of the public mobile network. This ensures sufficient capacity for business-critical applications, even if it is busy on the mobile network.

Video Services

Our video service is one of the key foundations of our product offerings. Our cable operation offers multiple tiers of digital video programming and audio services. Subscribers to our video service pay a fixed monthly fee and generally receive at least 50 digital video channels (of which the majority of channels are in high definition "HD") and several digital radio channels.

Furthermore, we tailor our video services based on programming preferences, culture, demographics, and regulatory requirements. Our channel offerings include general entertainment, sports, movies, documentaries, lifestyles, news, adult, children, and ethnic and foreign channels.

We also offer a variety of premium channel packages to meet the interests of our subscribers. For an additional monthly charge, a subscriber may upgrade to one of our extended digital tier services and receive an increased number of video channels, including the channels in the basic tier service. Digital subscribers may also subscribe to one or more packages of premium channels for an additional monthly charge.

To meet customer demands, we have enhanced our video services with various products that enable our customers to control when, where and how they watch their programming. These products range from digital video recorders (**DVRs**) to our multimedia home gateway systems, “Mediabox XL” (formerly Horizon TV), “Mediabox Next” or “Mediabox Next Mini” (collectively, **Mediabox**), as well as various mobile applications (**apps**). Mediabox has an interface that enables customers to view and share, across multiple devices, linear channels, video-on-demand (**VoD**) programming, and personal media content and to pause, replay, and record programming. The Mediabox Next is a multiscreen entertainment platform that combines linear television, VoD and mobile viewing. The Mediabox Next also allows customers to pause a program, series or movie and seamlessly continue watching from where they left off on another device, whether this is a television, tablet, smart phone or laptop. The Mediabox Next Mini was successfully introduced during 2022 and provides the same TV experience as the Mediabox Next, but is smaller in size and no coax cable is needed as the signal comes in via the internet. By the end of 2022 around 2.0 million customers can now enjoy the next-generation TV viewing experience and user interface.

For our Mediabox subscribers, we offer various features and functionalities, including fully integrated television apps for various online services (such as Netflix, Disney+, Videoland, social platforms, sports experience, music, news, and games). Enrichment of this service will expand coming years. In 2022 we fully integrated Disney+ and the HBO Max Video apps amongst many others. We also offer an online mobile app for viewing on a second screen called “**Ziggo GO**”. Ziggo GO is available on mobile devices (iOS, Android, and Windows) and via an internet portal that allows video customers to view linear channels and VoD, with a substantial part of this content available outside of the customer’s home. For Mediabox customers, when in their home, the second screen device can act as a remote control. Additionally, through Ziggo GO, customers have the ability to remotely schedule the recording of a television program on their Mediabox.

One of our key video services is “**Replay TV**”. Replay TV records virtually all programs across numerous linear channels. The recordings are available up to seven days after the original broadcast. This allows our customers to catch-up on their favorite television shows without having to set their DVR or browse separate menus on their set-top boxes. Instead, customers can open the electronic programming guide, scroll back and replay linear programming instantly. Replay TV also allows our customers to replay a television program from the start even while the live broadcast is in progress. Replay TV is accessible through Mediabox and Ziggo GO.

We offer pay-per-view programming through VoD giving subscribers access to thousands of movies. We continue to develop our VoD services to provide a growing collection of programming from local and international suppliers, such as Viacom, the BBC, and Sony, among others. Our subscription VoD service “**Movies & Series**” is included in our mid-tier video service accessed through Mediabox. We also offer award-winning content from ViacomCBS (Paramount Studios, SHOWTIME® and CBS Studios) through our “**Movies & Series L**”. VoD service and is included in our enhanced video service as part of our converged services (see converged services). For an additional monthly charge, we also offer approximately 40 additional TV channels on top of the ViacomCBS programming through our “**Movies & Series XL**” VoD service which is included in our high tier enhanced video service. Our VoD services, including catch-up TV, are available on a subscription or a transaction basis, depending on the tier of enhanced video service selected by the subscriber.

Additionally, we have our own sports channel, “**Ziggo Sport**”. In 2022 Ziggo Sport broadcasted over 10,000 hours of elite sports from all over the world with a focus on football, racing, tennis, golf, athletics and Dutch national teams competing in World and European Championships. We enhanced the engagement on our social media channels, adding up to 2.2 million followers. Ziggo Sport renewed and acquired some major sports rights e.g. PGA Europe (golf), ATP (tennis) and LaLiga (football, till 2029) as well as the acquisition of the exclusive rights of the three UEFA Club Championships (Champions League, Europa League and Europa Conference League), as of August 2024.

Fixed-line Telephony Services

Multi-feature telephony services are available through voice-over-internet-protocol (**VoIP**) technology. We pay interconnect fees to other telephony and internet providers when calls by our subscribers terminate on another network and receive similar fees from providers when calls by their users terminate on our network through interconnection points.

Our telephony service may be selected in combination with one or more of our other services. Our telephony service includes a basic fixed-line telephony product for line rental and various calling plans, which may consist of any of the following: unlimited network, national or international calling, unlimited off-peak calling and minute packages, including calls to fixed and mobile phones. We also offer value added services, such as a personal call manager, unified messaging and a second or third phone line at an incremental cost.

Converged services

As part of our converged strategy, we offer additional benefits to customers who have both mobile and fixed subscriptions with VodafoneZiggo. Eligible video customers taking a broadband product and a postpaid mobile subscription receive extra benefits at no incremental cost. Benefits include double mobile data allowance, an extra premium TV package consisting of either Movies&Series L, Ziggo Sport Total or Ziggo Kids entertainment and an internet security package. In addition, a monthly discount up to €7.5 will be given for quad-play acquisition and retention purposes, providing a premium converged offer at competitive prices to new and renewing customers.

After a successful launch of our customer loyalty program “**Priority**” in 2021, we continued to provide exclusive benefits to all our converged clients by expanding our partnerships with Ajax, Ziggo Dome, MOJO Concerts and The Park Playground to name a few.

Business Services

In addition to our residential services, we offer business services. For business and public sector organizations, we provide a range of voice, data, video, security, collaboration and cloud-based services, using a variety of fixed and mobile connectivity services. Our business customers include SOHO, small businesses and medium and large enterprises.

Our business services are designed and differentiated to meet the specific needs of our business customers. These services fall into six broad categories:

- Mobile services, including voice calling, SMS and wireless data anywhere in the world, making use of 2G, 4G and 5G mobile network technology;
- Secure broadband connectivity via our own coax and fiber networks, complemented with fiber connectivity from other network operators, to enable nation-wide coverage. Coax broadband services are based on residential services, differentiated with higher speed and business service level agreements. Fiber connectivity makes use of both Fiber-to-the-Office (**FTTO**) and Fiber-to-the-Home (**FTTH**) footprints, to make sure our customers can get a fit-for-purpose connection;
- Multiple dwelling unit services in a B2B2C model for targeted industries, like hospitality, health care and student-housing;
- Enterprise data services for medium to large customers: Internet access, SD-WAN services, high capacity point-to-point services, and managed WiFi networks;
- Enterprise voice services, using VOIP technology, and Service Number services;
- Value added services (often cloud based) like: Unified Communication, IoT, Security and Contact Center applications. These services are often complemented with Professional, Managed and Adoption services, that help our customers to get the most out of these Value Added Services.

In the SOHO and Small segment, more than 140,000 customers now take both their fixed broadband services and their mobile services from VodafoneZiggo. With 399,000 Unified Communication seats (Skype for Business, Microsoft Teams, Office 365, One Net, Storm contact center and private cloud PBX) installed through the end of 2022, we are one of the leading providers of integrated Unified Communication solutions to B2B customers in the Netherlands.

We launched a revamped Vodafone Business Internet service for SME and Large customers that combines the strengths of Vodafone and Ziggo networks and security services and makes these available across a national footprint.

In 2022, we continued to leverage our Iot.Nxt platform to expand our offering of IoT services with new solutions, leading to an increase in our IoT revenues.

With Vodafone Business Marketplace, we offer small and medium sized enterprises (SME) a growing number of sector specific business applications via a cloud based platform. SME customers are able to directly download and manage these apps online through the Vodafone marketplace helping to improve customer experience.

We further expanded our Cybersecurity portfolio based on our Accenture partnership. This suite of services will help organizations to quickly identify and mitigate security risks, including Cyber Exposure Diagnostics, Penetration Tests, Vulnerability Assessments and Phishing Awareness.

Our business services are provided to customers at contractually established prices based on type of services received and the volume and duration of the service agreement. SOHO and small business customers pay business market prices on a monthly subscription basis to receive enhanced service levels and business features that support their needs. For medium to large business customers, we enter into more individual agreements to address their needs. These agreements are generally contracted for a period of one to five years.

Operations

Marketing and Sales

We market and sell our products to customers using a broad range of sales channels, primarily online sales through our website, inbound and outbound telemarketing and partner retailers. We also sell our services direct to the customers at certain marketing events and through our own 104 VodafoneZiggo stores. Since 2016, we have a shop-in-shop partnership agreement with the largest electronic retailer in the Netherlands (MediaMarkt), extending our retail presence by 48 locations.

We encourage customers to purchase our services and products through our website. We currently outsource the majority of our inbound and outbound telemarketing operations to external service providers. We also have partner shops in various cities in our footprint. We further target residential customers through partnerships with retail outlets, such as multi-media retailers, electronics and telecommunications stores. These partnerships generally focus on sales that are related to our postpaid mobile telephony, enhanced video and broadband internet services.

For our business sales, we use multiple sales channels, both direct and indirect, to better service our customers. For SOHO and Small customers we use a mix of in- and outbound service desks, our own retail stores, partner retailers and increasingly online channels. We have a team of dedicated account managers who work exclusively with our key account customers. Furthermore, we have an extensive network and support program for external business partners who sell our products and services to small and medium customers as well as manage these customer relationships.

Customer Service

Our customer service operations are responsible for all live customer care interactions, including handling customer queries and complaints. Their focus is on improving customer satisfaction and enhancing customer lifetime management as well as offline and online marketing integration. Customer service also provides inbound telemarketing and sales support functions for residential customers. To enhance our customer experience, we improved our customer journeys and offer smart online customer services via our web, app and our Customer Communities. In addition, we increasingly utilize Artificial Intelligence services in our customer contacts as well as social media channels. We operate dedicated customer service centers throughout the Netherlands. As we believe proactive service and digitization are the way forward to achieve future customer loyalty, we are committed to improve and innovate our digital services to offer our customers the best customer experience in their preferred channel. We do this by blending the best of technology and human interaction in a personal, instant and easy way. This is

embodied in pro-active monitoring tools, chatbots and personalized apps for customer service, such as the MyVodafone and MyZiggo app.

Our customer service agents are skilled in multiple areas, including marketing campaigns, customer care, and sales for a variety of products as well as technical service. But we also created specialist teams for customers with more complex questions. In 2022, we started the WiFi crew that received the highest customer satisfaction. In 2023, we will roll out new teams with other areas of expertise. These teams also help to improve our journey processes faster and in a structural way. All of our customer services agents are regularly trained in taking customer ownership, empathy, sales and retention skills and on excellent product knowledge. Depending on the customer intent we connect the best possible employee with the best mandate in order to have the best possible outcome on customer experience and customer life time value.

Network and Technology

Our video, broadband internet and fixed-line telephony services are transmitted over a hybrid fiber coaxial cable network. This network is composed of national and regional fiber networks, which are connected to the home over the last few hundred meters by coaxial cable. This network allows for two-way broadband communications and is flexible enough to support our current services, as well as new services.

We also provide our services over certain partner networks. We offer this service on an exclusive and non-exclusive basis to small cable network owners who have not developed the capability to offer premium products, such as broadband internet, video and telephony services. The 7.3 million homes passed on our network exclude homes reached by a partner network.

To connect 'remote' locations we either connect customers via our own fiber network or we lease fiber connectivity from fiber wholesale suppliers, when economically feasible.

We closely monitor our network capacity and customer usage. Where necessary, we increase our capacity incrementally, for instance by splitting nodes in our network. We also continue to explore new technologies that will enhance our customers' connected entertainment experience, such as:

- recapturing bandwidth and optimizing our networks by increasing the number of nodes in our markets and using digital compression technologies;
- completing the switch-off of analogue radio to free up capacity for internet and television usage;
- completing the increase of the bandwidth of our hybrid fiber coaxial cable network to 1.2GHz;
- completing the gigabit (DOCSIS 3.1 technology) roll-out in our entire footprint;
- completing the roll-out of our business grade Carrier Ethernet Network (while switching off the Metro & Neon networks)
- enhancing our network to accommodate additional business services;
- accelerating the roll-out of our Mesh WiFi (**SmartWiFi**) offerings to enhance our customers' in-home broadband connection; and
- Introducing the Next Mini, the new all IP TV platform including OTT integration.

To deliver our 2G, 4G and 5G mobile services, we have mobile spectrum licenses in the 700, 800, 900, 1400, 1800, 2100, and 2600 MHz bands. Licenses for 700, 1400 and 2100 MHz bands are valid till 2040, the other licenses till 2030.

Supply Sources

For our video services, we license most of our programming and on-demand offerings from content providers and third-party rights holders, including broadcasters and cable programming networks. For such licenses, we generally pay a monthly fee on a per channel or per subscriber basis with minimum pay guarantees in certain cases. We generally enter into long-term programming licenses with volume discounts and marketing support. For on-demand programming, we generally enter into shorter-term agreements and also pay royalties based on our subscribers' usage. For our distribution agreements, we seek to include the rights to offer the licensed programming to our customers through multiple delivery platforms and through our apps for smart phones and tablets.

We purchase each type of customer premises equipment from a number of different suppliers. Customer premises equipment includes set-top boxes, WiFi routers, DVRs, tuners, modems and similar devices. For each type of equipment, we retain specialists to provide customer support. Similarly, we use a variety of suppliers for mobile handsets to offer to our customers taking mobile services.

We license software products, including email and security software, and content, such as news feeds, from several suppliers for our internet services. The agreements for these products require us to pay a per subscriber fee for software licenses and a share of advertising revenue for content licenses. For our mobile network operations and our fixed-line telephony services, we license software products, such as voicemail, text messaging, and caller ID, from a variety of suppliers. For these licenses, we seek to enter into long-term contracts, which generally require us to pay based on usage of the services.

We aim to purchase as sustainable as possible. To ensure this, we collaborate with Ecovadis, an independent organisation that monitors suppliers in terms of environmental, labor and human rights, ethics and sustainable purchasing. As a result of their in-depth and up-to-date information, we can make better and more informed choices.

Competition

The Dutch market for video, broadband internet, fixed-line telephony, and mobile services is highly competitive and rapidly evolving. Technological advances and product innovations have increased and are likely to continue to increase giving customers several options for the provision of their telecommunications services. Our customers want access to high quality telecommunication services that allow for seamless connectivity. Accordingly, our ability to offer converged services (video, internet, fixed telephone, and mobile) is a key component of our strategy. We compete with companies that provide fixed-mobile convergence bundles, as well as companies that are established in one or more communication products and services. Consequently, our business faces significant competition.

For all our services, we compete with the provision of similar services from operator KPN N.V. (**KPN**), T-Mobile Netherlands B.V. (**T-Mobile**), and smaller parties. KPN and most other competitors use KPN's fixed network and offer (i) internet protocol television (**IPTV**) over fiber optic lines where the fiber is to the home, cabinet, or building or to the node networks (fiber-to-the-home/-cabinet/-building/-node is referred to herein as **FTTx**) networks and through broadband internet connections using DSL or very high-speed DSL technology (**VDSL**), KPN's network also offers several enhancements to VDSL, such as "vectoring" and "pair bonding", and (ii) digital terrestrial television (**DTT**). Where KPN has enhanced its VDSL system, it allows for offers of broadband internet with download speeds of 200 Mbps, and on its FTTx networks, it offers download speeds of up to 1 Gbps. The ability of competitors to offer a bundled triple-play of video, broadband internet and telephony services and fixed-mobile convergence services, creates significant competitive pressure on our operations, including the pricing and bundling of our products. The video services of competitors include many of the interactive features we offer our subscriber. Portions of our network have been overbuilt by KPN's and other providers' FTTx networks and expansion of these networks is expected to continue.

We also experience competition from (i) over the top (**OTT**) video content aggregators utilizing our or our competitors' high-speed internet connections (such as Amazon Prime Video, Netflix, Disney+ and Videoland), (ii) direct-to-home satellite (**DTH**) service providers, such as Canal Digital, a subsidiary of M7 Group S.A., and (iii) movie theaters, video stores, video websites and home video products. In addition, we compete to varying degrees with other sources of information and entertainment, such as online entertainment, newspapers, magazines, books, live entertainment/ concerts and sporting events.

We compete with mobile operators KPN and T-Mobile in the mobile market, offering 2G, 3G, 4G and 5G services, where pressure on market price continues, characterized by aggressive promotional campaigns, heavy marketing spend, and increasing data bundles. Furthermore, there is increasing competition from MVNO's, some of which focus on niche segments such as no

frills, youth or ethnic markets. While in the business market, we see growing customer requirements to provide unified communication solutions with a focus on employee mobility, seamless fixed and mobile transition, and digital workspace.

Connectivity Services in the high end business market are also offered by competitors like Eurofiber (nationwide fiber access services) and international service providers like British Telecom, Colt, etc.

In the business segment we also compete with service providers offering ‘value added services’, mostly in OTT service models based on Hosted Cloud technologies. These can be both local providers with nationwide coverage and international cloud hosting providers like Microsoft, Amazon Web Services, IBM, etc.

Changes in market share are driven primarily by the combination of price and quality of services provided. To improve our competitive position, we continuously monitor and update our portfolios.

We offer attractive bundle options, plus fixed-mobile convergence options, allowing our subscribers the ability to select various combinations of services to meet their needs. Our competitive strategy with respect to our services includes:

- Video services: We include Mediabox, Replay TV, and Movies & Series in our extended digital video tier offers. Ziggo GO is also available, providing subscribers the ability to watch linear and VoD programming through a second or third screen application on smart phones, tablets, and laptops and to record programs remotely. In addition, we continue to improve the quality of our programming and modify our video options by offering attractive content packages such as Ziggo Sport channels and award-winning content from ViacomCBS.
- Mobile services: We offer a wide range of nationwide 2G, 4G and 5G mobile services and our Community WiFi network. We also continue to invest in our mobile network to improve the availability and quality of our services.
- Broadband internet services: The speed of service depends on the location and the tier of service selected. In addition, by leveraging our existing fiber rich broadband networks and our Network Extensions, we are in a position to deliver gigabit services by deploying the next generation DOCSIS 3.1 technology. As part of our DOCSIS 3.1 roll-out, we offer this technology to all of our customer homes, representing our entire footprint. By using DOCSIS 3.1, we can extend our download speeds to at least 1 Gbps where deployed. As DOCSIS 3.1 technology improves not only our internet speed offers but also allows for network growth. DOCSIS technology is an international standard that defines the requirements for data transmission over a cable system. In addition, we offer the SmartWifi pods and SmartWiFi app to enhance our customers' in-home broadband connection; and
- Fixed-line telephony services: We position our services as “anytime”, “anywhere”, and “any destination” and offer a variety of innovative calling plans to meet the needs of our customers, such as national or international calling, unlimited off-peak calling and minute packages, including calls to fixed and mobile phones.

Regulatory Matters

For a description of current regulatory developments in the Netherlands, which will affect our operations, see the “Regulatory” section in this Annual Report.

Other

Our application of VAT with respect to certain mobile revenue generating activities has been challenged by the Dutch tax authorities. The Dutch tax authorities challenged the multipurpose character of certain mobile subscriptions that we entered into during 2017 and 2018. No amounts have been accrued by our company as the likelihood of loss is not considered to be probable. The asserted claimed amount is approximately €33.4 million.

The oral hearing of our first court case was held on May 31, 2021 and the other court case took place on May 16, 2022. The court’s verdict in both cases was in favor of the tax authorities. We have appealed this decision to the higher court and the hearing of both cases was held on February 14, 2023.

In addition to the foregoing item, we have contingent liabilities related to (i) legal proceedings, (ii) wage, property, sales and other tax issues, (iii) disputes over interconnection fees and (iv) other matters arising in the ordinary course of business. We expect that the amounts, if any, which may be required to satisfy these contingencies will not be material in relation to our financial condition or results of operations.

REGULATORY

Overview

The following section provides a summary of certain of our regulatory requirements and obligations in the Dutch market. This description is not intended to be a comprehensive description of all regulation in this area nor a review of specific obligations which have been imposed on us. Adverse regulatory developments could subject our business to a number of risks. Regulation could limit growth, revenue, and the number and types of services offered and could lead to increased operating costs and capital expenditures. In addition, regulation may restrict our operations and subject them to further competitive pressure, including pricing restrictions, interconnect and other access obligations, and restrictions or controls on content. Failure to comply with current or future regulation could expose our businesses to penalties.

The video distribution, broadband internet, fixed-line telephony and mobile businesses are regulated at the EU level. In the Netherlands, these regulations are implemented through the Telecommunicatiewet (the Dutch Telecommunications Act, “**DTA**”) and the Mediawet (the Dutch Media Act) and related legislation and regulations. The Authority for Consumers and Markets (“**ACM**”, Autoriteit Consument & Markt), in which the former Independent Post and Telecommunications Authority (“**OPTA**”, Onafhankelijke Post en Telecommunicatie Autoriteit) has been integrated, and the Dutch Radiocommunications Agency (“**AT**”, Agentschap Telecom) supervise and enforce compliance with certain parts of the DTA. Pursuant to the DTA, the ACM is designated as a National Regulatory Authority (**NRA**). The Dutch Media Authority (“**Cvdm**”, Commissariaat voor de Media) is authorized to enforce compliance with the DMA.

As per January 1, 2023, the Agentschap Telecom is called ‘Rijksinspectie Digitale Infrastructuur’ (Governmental Inspection Digital Infrastructure, “**RDI**”).

In addition to complying with industry specific regimes, we must comply with both specific and general legislation concerning, among other areas, competition, data protection, data retention, internet service provider liability, consumer protection, and e-commerce.

European Union

The current body of EU law that deals with electronic communications regulation consists of a variety of legal instruments and policies (collectively referred to as the “**Regulatory Framework**”). The key elements of the Regulatory Framework are various legal measures, which we refer to as “Directives,” that require the EU Member States to harmonize their laws as well as certain EU regulations that have effect without any specific adoption at the national level. The main Directives within the Regulatory Framework are the so-called Framework Directive, Access Directive, Authorisation Directive, Universal Service Directive, and e-Privacy Directive. The main regulations are the Net Neutrality and Roaming Regulations.

The Regulatory Framework primarily seeks to create an internal market for electronic communication networks and services within the EU. It harmonizes the rules within the EU for the establishment and operation of electronic communications networks, and the offer of electronic communications services, such as telephony, internet and, to some degree, television services. The Regulatory Framework does not generally address issues of content.

On May 6, 2015, the European Commission (**EC**) published its Digital Single Market strategy document. The strategy is an aggregation of many different policy areas with the purpose of creating a digital single market to expand jobs and stimulate growth. The strategy includes policy review in the areas of EU communications regulation, broadcasting law, copyright reform and anti-competitive geo-blocking practices.

On September 14, 2016 the EC published a proposal for the European Electronic Communications Code (**EECC**), which would replace the Regulatory Framework. The proposal recognizes the need for greater incentives to boost private sector investment in very high capacity networks. The proposal maintains the key elements of the Regulatory Framework, notably market analysis with remedies only being imposed on operators with Significant Market Power. The European Council and European Parliament (**EP**) were discussing other forms of access - extending the system of symmetrical access powers and the notion of joint Significant Market Power. The proposal captures all types of services that are relevant to consumers, not only the traditional electronic communications services as captured under the Regulatory Framework but also OTT services. The proposal brings greater harmonization to the timetables for spectrum licensing and renewal that will encourage investment in mobile networks and will result in more advanced services. Following the negotiations among the EC, European Council and EP agreement was reached and the EECC has entered into force on December 20, 2018. Member states had until December 21,

2020, to transpose the EEC into national law. The Netherlands met this deadline for specific parts of the EEC, but is experiencing a delay for the implementation of the majority of the articles. The full EEC has been transposed into national law as per February 23, 2022.

The operation of broadcasting networks and the distribution of broadcasting signals by a cable operator falls within the scope of the Regulatory Framework. The content related activities of a broadcaster are harmonized by other elements of EU law, in particular the Audiovisual Media Services Directive (**AVMSD**). The AVMSD, which was adopted on December 11, 2007, amended the EU's existing Television Without Frontiers Directive (**TVWF**). The AVMSD has been implemented in the Netherlands through the DMA. Under the AVMSD, broadcasts originating in and intended for reception within an EU Member State must generally respect the laws of that Member State. Pursuant to both the AVMSD and TVWF, and in accordance with what is referred to as the "country of origin principle", an EU Member State must furthermore allow within its territory the free transmission of broadcast signals of a broadcaster established in another EU Member State so long as such broadcaster complies with the laws of its home state. The AVMSD also establishes quotas for the transmission of European produced programming and programs made by European producers who are independent of broadcasters.

The Corporate Sustainability Reporting Directive (**CSRD**) came into force on January 5, 2023. The CSRD extends and strengthens the existing rules on non-financial reporting and aims to eventually have the same standards for both sustainability reporting and financial reporting. Companies will have to report on how sustainability issues affect their business, as well as the impact of their activities on people and the environment. The CSRD also aims to increase the transparency of the reporting process of companies, providing a single framework for providing information to investors and stakeholders. The first of the reporting requirements relevant to VodafoneZiggo will apply in 2026 (for fiscal year 2025 reporting).

The Netherlands

The DTA comprises a wide variety of rights and obligations relevant to the provision of public electronic communications networks and services. Certain key provisions included in the DTA are described below, but this description is not intended to be a comprehensive description of all regulations in this area.

Licensing

The DTA contains a system of general authorizations. A provider of a public electronic communications network or service needs to notify the ACM of its network or service, who will register the notification. The purpose of the notification is to increase transparency and to ensure effective regulation and does not constitute a formal condition for market entry.

With regard to scarce resources such as telephone numbers and frequencies, a system of (individual) licenses applies. The ACM administers licenses with regard to telephone numbers. AT administers the frequency spectrum and grants licenses with regard to the use of frequencies. Licenses for frequencies are issued upon application, either on a first-come-first-serve basis, beauty contest or auction. A frequency license confers the right to use a specific set of frequencies in a specific band for a specific period of time and under specific conditions, such as coverage obligations. Frequency licenses are transferable with permission from the Minister of Economic Affairs. In addition to one-off license fees, holders of licenses have to pay annual supervision costs, based on the amount of spectrum held. We hold licenses in the 700, 800, 900, 1400, 1800, 2100, and 2600 MHz bands to provide 2G (GSM), 4G (LTE) and 5G communications in the Netherlands. In 2020, we acquired new licenses in the 700 and 1400 MHz bands and renewed our 2100 MHz licenses, all for a period of 20 years. The other licenses will expire in 2030. The Dutch Government is planning to auction 300 MHz in the 3.5 GHz band in the third quarter of 2023. As of December 31, 2022, we hold approximately 33% of the total mobile spectrum licenses in the Netherlands, which are used to deliver mobile services.

Access, Interoperability and Interconnection

All providers of public electronic communications networks or services who control access to end-users are obliged to enter into negotiations upon the request of a competitor to conclude an interoperability agreement. Interoperability refers to all measures, including network interconnection, which should be implemented to ensure end-to-end connections. If a provider does not comply with its obligation to enter into negotiations, the ACM, at the other party's request, can impose proportionate obligations on the provider in order to ensure end-to-end connectivity.

Significant Market Power

To ensure that the telecommunications markets become genuinely competitive, the ACM can impose ex ante regulation by means of market analysis decisions on operators or service providers that have significant market power in a relevant market. Ex ante regulation means that the ACM sets behavioral rules beforehand with which providers with significant market power must comply. A company will be deemed to have significant market power if, either individually or jointly with others, it enjoys a market position equivalent to dominance, i.e., a position of economic strength affording it the power to behave to an appreciable extent independently of competitors, customers, and ultimately consumers.

Before it can be established whether an operator or service provider has significant market power, the ACM needs to determine, in accordance with the principles of general European competition law, in which relevant electronic communications market(s) the operator or service provider competes. The ACM must do this while taking into account the EC's "Recommendation on relevant product and service markets within the electronic communications sector", the latest version of which was published by the EC on December 21, 2020. The ACM may also define additional relevant markets provided that any such market meets the cumulative criteria defined by the EC in its so called three criteria test for determining whether a market is susceptible to ex ante regulation.

If the ACM determines that a company has significant market power, the ACM must impose one or more appropriate obligations. These obligations relate to, among other things, access and use of specific network facilities, non-discrimination, transparency, and price regulation at both the wholesale and retail level. To ensure a proper functioning of the market, these obligations may not be disproportionate. The investigation of a relevant market, the designation of parties with significant market power and the imposition of ex ante obligations culminate in so-called market analysis decisions of the ACM. These decisions normally apply for a period of three years, after which the market concerned needs to be re-investigated. Under the EEC this term is extended to five years.

The ACM has completed various rounds of market analyses. Former Ziggo was designated as a party with significant market power on the market for fixed terminating access services and Vodafone NL was designated as a party with significant market power for both the fixed terminating and mobile terminating access markets.

The analyses in respect of these markets are discussed below.

ACM Call Termination Market Analysis Decisions

In respect of the call termination market, the ACM has taken the view that all providers of call termination on fixed-line and mobile networks in the Netherlands have significant market power because all such providers exclusively control access to end-users connected to their respective public telephone networks. As a result, Former Ziggo (in relation to fixed call termination services) and Vodafone NL (in relation to both fixed and mobile call termination services), have been subject to specific ex ante obligations, including in particular tariff regulation (maximum termination charges), since the ACM's third market analysis decision of July 7, 2010. On August 5, 2013, the ACM published its fourth market analysis decision on call termination, which combined both the fixed termination market and the mobile termination market. The new tariffs became effective September 1, 2013, and applied for a three year period that ended September 1, 2016. The decision was appealed by various operators, including us, and on August 27, 2013, the Dutch Supreme Administrative Court decided in a preliminary decision that the price cap on mobile termination charges should be higher than the ACM had initially determined. The court ruled that the ACM should apply a so-called Bottom-up Long Run Incremental Cost (**BULRIC**) plus cost calculation method (taking into account common overhead costs relating also to other services than mobile call termination, **BULRIC plus**) rather than a pure BULRIC method (in which such common overhead costs are to be disregarded, **pure BULRIC**). These revised tariffs applied until the Dutch Supreme Administrative Court arrived at a final decision in the appeal proceedings on the merits (see below). Because the pure BULRIC method used by the ACM is in fact a method recommended by the EC in its 2009 Recommendation on the Regulatory Treatment of Termination Rates, the Supreme Administrative Court posed prejudicial questions to the European Court of Justice.

After an Advocate General opinion, the European Court of Justice ruled on September 15, 2016, that deviation from the EC's 2009 Recommendation on Termination Rates is only possible if justified by national circumstances. The ACM started a new (the fifth) market analysis and published a draft decision on November 18, 2016, in which they again regulate using a pure BULRIC calculation. The hearing at the Dutch Supreme Administrative Court was held on January 11, 2017, and ruling given on July 10, 2017, upheld the ACM's use of pure BULRIC, though not requesting retroactive adjustment.

In April 2017, the ACM provided their plan to impose tariff ceilings of €0.00139 per minute for fixed and €0.005819 cents per minute for mobile calls from July 1, 2017, to the EC. The EC approved these in May, 2017. The new tariff implementation was delayed by the court decision, until July 12, 2017. VodafoneZiggo appealed ACM's market decision. In September 2018, the appeal court delivered its decision on VodafoneZiggo's appeal against the ACM's Mobile Termination/Fixed-line Termination Rate ("MTR" and "FTR") regulations market decision. The verdict provides the relevant guidance sought by VodafoneZiggo about the interpretation and setting of interconnection tariffs among operators.

Further to the entry into force of the EECC, the EC adopted a delegated act on December 18, 2020, that sets maximum, EU-wide voice termination rates, both fixed and mobile. These rates are applicable to any operator providing voice call termination services in the EU. Further to approval of the delegated act by the European Council and the EP in the second quarter of 2021, the new rates apply as of July 01, 2021. The delegated act includes a transition period for the fixed rate that ended on December 31, 2021, and a glide path for the mobile rates that ends on December 31, 2023.

ACM Local Loop Unbundling Decision

On February 27, 2018, the ACM published a draft decision in its Local Loop Unbundling market analysis, now referred to as Wholesale Fixed Access (**WFA**), in which it aims to regulate VodafoneZiggo by imposing an obligation to offer wholesale cable access in addition to continuing existing regulation on KPN. Following a market consultation, the ACM notified the EC of the draft decision. On August 31, 2018, the EC responded, making a number of critical comments, but not rejecting the ACM's proposals. The ACM then published a final decision on September 28, 2018, which entered into force October 1, 2018. We appealed ACM's decision and complied with the first obligation on VodafoneZiggo, namely to publish a reference offer before January 1, 2019. Our appeal of ACM's decision turned out successful and on March 17, 2020, the Court annulled ACM's decision. With the Court's verdict being final, VodafoneZiggo is no longer obligated to offer cable access. Also, KPN is no longer obligated to offer regulated access but KPN has announced it will continue offering access under commercial conditions. On July 9, 2021, the ACM announced that it had investigated, over the course of the preceding months, the fixed consumer and business markets. According to the press release, the ACM considers that there is a risk that access conditions by KPN for consumers may impede competition. The ACM therefore announced a market analysis decision to determine whether access to fixed telecom networks must be regulated and, if so, how. On April 1, 2022, the ACM announced KPN had made meaningful improvements to its wholesale offering. These were made binding via a commitments decision on August 25, 2022. The ACM has since resumed the market analysis that was put on hold because of KPN's offer, but its current working hypothesis is no additional obligations are needed. The ACM may also review whether symmetric access regulation is required. The ACM has received a request for symmetric access on our fixed network and is currently assessing this request.

Digital Services Act, Digital Markets Act.

Amending the current eCommerce Directive, the EC published its proposal on the Digital Services Act (**DSA**) on December 15, 2020. The DSA aims to set obligations and accountability rules for providers of network infrastructure (such as internet access providers like VodafoneZiggo), hosting service providers, and online platforms for the content provided by their users. Specific obligations would apply to very large online platforms which have at least 45 million monthly active users in the EU. Rules also apply to non-EU established providers that provide services to EU citizens. The DSA contains full-fledged oversight and enforcement rules with the ability to set fines of up to 6% of the global annual turnover of platforms.

Also on December 15, 2020, the EC published a proposal on the Digital Markets Act (**DMA**). This act would establish an ex ante framework for digital platforms designated as gatekeepers. These platforms, with "considerable market power", exert substantial control over access to digital markets. The DMA's overall objective is to address market failures and unfair conduct by gatekeeper platforms to promote a fair and contestable online platform environment. The DSA and the DMA complement each other (both have status of regulation) and will be directly applicable in the member states' legal order without the need for transposition. On July 18, 2022, the Council of the EU endorsed its provisional agreement with the EP on the DMA and the DMA will apply from May 2, 2023. A provisional agreement on the DSA was reached on April 23, 2022 and was formally approved by the EP and the Council of the EU on July 5, 2022 and October 4, 2022, respectively. The DSA was signed into law on October 27, 2022 and will come into force on January 27, 2024.

Network and services security and continuity

As a provider of public electronic communication networks and services, we are subject to specific obligations to safeguard the security and integrity of our networks and services, and to ensure the continuity of electronic communications services in the event of disturbances or outages of the electricity grid. We are also required to notify the AT and the National Cyber Security Center (“NCSC”) of security and integrity breaches which materially threaten the continuity of our networks and services. To mitigate the risks to continuity of mobile services, Vodafone NL, T-Mobile, and KPN voluntarily entered into national roaming arrangements in 2014, allowing for their respective subscribers to roam (voice and SMS) on the other parties’ networks in the event of severe outages.

End-user Protection

As a provider of public electronic communication networks and services, we are subject to specific regulations aiming to protect end-users, including regulations concerning information obligations toward consumers, the enactment of amendments to end-user contracts, the term of end user contracts, termination rights of consumers, quality reporting, access to emergency numbers and subscriber information, and compensation of subscriber fees in the event of outages. Access to emergency numbers has to be provided without limitation and free of charge. Access to subscriber information includes the provision of access to the names, addresses and telephone numbers of our subscribers who have consented to be included in directory enquiry services.

Data Protection

For providers of public electronic communications networks or services and further to the General Data Protection Regulation (**GDPR**) and the ePrivacy Directive, a strict data protection regime applies in the Netherlands. On May 25, 2018, the EU General Data Protection Regulation (GDPR), which replaced the European Data Protection Directive, came into force. The GDPR has direct effect in the Netherlands with additional data protection obligations relevant to our operations that include: (i) clear explanation and transparency of personal data usage to customers and employees, and maintaining an internal data processing register, (ii) affirmative consent from users for profiling by automated means, (iii) stronger privacy rights for users and (iv) application of privacy by design/default to data processes.

In addition to the general data protection framework of the GDPR, the DTA sets out specific regulations for providers of public electronic communications networks and services. These regulations include an obligation to offer certain technical facilities, such as specification of invoices, telephone number identification and transfer of calls, rules regarding the use and processing of location data and traffic data (i.e., call detail records), an obligation to provide access to subscriber lists for directory services, obligations to implement security measures to protect personal data and rules regarding unsolicited commercial communications (“spam”). The DTA also obliges providers of public electronic communications networks to notify the AT in case of a security breach or major outage. If this includes the leakage of personal data processed by the provider, the Autoriteit Persoonsgegevens (**Data Protection Authority**) needs to be informed as well.

On January 10, 2017, a draft ePrivacy Regulation (**ePR**) was proposed by the EC to replace the ePrivacy Directive. The EU member states, after four years, reached an agreement, on February 10, 2021, on a common position regarding the ePR. The trilogue between EC, EP and member states, aiming to reach agreement on the final wording of the ePR, began in the second quarter of 2021.

Lawful Interception

Providers of public telecommunication networks and services can only make their networks and services available to the public if they have arranged their networks and services in such a manner that they can be lawfully intercepted promptly. Providers of public telecommunication networks and services are obligated to cooperate fully in the execution of a lawfully given special tapping order or permission, in accordance with the technical and procedural requirements set forth on the basis of the DTA, and to provide relevant Dutch law enforcement agencies information on subscribers and telecommunications traffic.

Net Neutrality

On January 1, 2013, certain provisions in the DTA with respect to net neutrality entered into force. These provisions regulate net neutrality by, among other things, prohibiting operators of public telecommunication networks through which internet access is provided as well as internet service providers from blocking or restricting services or applications which are

accessed via the internet other than in circumstances set forth in the DTA. In October 2015, the EP adopted a new Regulation including the first EU-wide net neutrality regime. Following a lengthy legislative procedure, the regulation (directly applicable in all Member States from April 30, 2016) reflects a light-handed approach to net neutrality permitting the provision of specialized services optimized for specific content and approving reasonable traffic management. In October 2016, a bill to change the DTA pursuant to the EU net neutrality Regulation was adopted by the Dutch Senate. In the law, a specific obligation prohibiting tariff differentiation for data was maintained, which however did not follow from the Regulation. The Court in Rotterdam ruled on April 20, 2017, that the Dutch ban on differential pricing for data is not valid as the EU net neutrality regulation does not allow national regulation on this issue. As a result, the DTA was amended to reflect the EU regulation. The special interest group Bits of Freedom has brought a series of legal challenges aimed at prohibiting zero rating, all of which were unsuccessful.

Radio and Television Transmission

The distribution of must-carry television services to the public is regulated by the DMA, entailing obligations regarding the transmission of specified radio and television broadcast channels. On January 1, 2014, revised must carry obligations became effective. The revised must carry obligations do not only apply to cable operators, as was previously the case, but also apply to all providers of analog and digital program packages based on the principle of technology neutrality. Providers of digital program packages with 100,000 or more subscribers are subject to the obligation to provide at least 30 television channels, including six public television broadcasting channels as a must carry obligation, a limited amount of regional and local television broadcasting channels and a number of digital radio broadcasting channels. In addition, all providers of analog program packages with 100,000 or more subscribers must include at least 15 television channels, including five public broadcasting channels as a must carry obligation, a limited amount of regional and local television broadcasting channels and some analog radio broadcasting channels. The DMA can grant a (conditional) exemption from the obligation if the must carry obligations listed above give rise to disproportionate costs for the network operator, an impediment to innovation or other unreasonable outcomes.

There is no regulated financing mechanism in place between network operators and broadcasters. Commercial and public program providers must negotiate with network operators regarding transmission fees.

Property Rules regarding the Network

In accordance with the Dutch Civil Code, all public fixed-line electronic communication networks are the legal property of the rightful constructor of the network or its legal successor, and not (by accession) of the owner of the ground in which the network resides. Registration at the Land Registry (*het Kadaster*) is required for the transfer of legal ownership and/or to encumber public networks, for example by a right of mortgage. Registration is also required to enjoy statutory protection against title claims of third parties. We have currently registered a substantial majority of our hybrid fiber-coaxial (HFC) network at the Land Registry.

Roaming

As a result of the European Roaming Regulation, which has direct effect in the Netherlands, as of June 15, 2017, roaming retail surcharges are no longer permitted, subject to a fair use policy. On June 15, 2017, revised maximum wholesale roaming rates (exclusive of value added tax (VAT)) became effective as follows (i) outgoing calls at €0.032 per minute, (ii) incoming calls at €0.0114 per minute, (iii) €0.01 per SMS sent, and (iv) rates for data at €7.7 per GB decreasing annually ultimately to €2.5 per GB effective January 1, 2022.

International calls

New rules regarding intra EU communications impose regulated maximum retail prices charged to consumers of €0.19 per minute for calls and €0.06 per SMS message (exclusive of VAT). The rates apply to fixed and mobile communications, effective from May 15, 2019 for a period of five years.

Consumer Credit

In June 2014, and February 2016, the Dutch (Civil) Supreme Court ruled that certain combined propositions of mobile services and a mobile handset could, under circumstances, be qualified as, inter alia, consumer credit and installment sales, which qualification could have consequences on the validity of certain customer contracts and the applicability of financial laws

including the supervision of the Autoriteit Financiële Markten (the Dutch financial market supervisory body, “AFM”). Vodafone NL was not party to the above-mentioned proceedings.

Furthermore, Vodafone NL has been in close consultation with the Financial Market Authority about the applicability and implementation of financial laws on consumer credit going forward and applied for a consumer credit license with the AFM in June 2016. The license was granted in December 2016.

Conditions Applied in Connection with the Ziggo Acquisition and KPN appeals against EC merger decisions for Ziggo Acquisition and VodafoneZiggo Joint Venture

Liberty Global’s acquisition of Ziggo obtained regulatory clearance from the EC on October 10, 2014, subject to the following commitments from Former Ziggo that are transferred to our company:

- a commitment to carry *Film 1* channels on our network at least until October 2017; and
- a commitment until October 10, 2022, with respect to our fixed network (i) not to enforce certain clauses currently contained in carriage agreements with broadcasters that restrict the ability of broadcasters to offer their channels and content via OTT services, (ii) not to enter into carriage agreements containing such clauses, and (iii) to maintain adequate interconnection capacity through at least three uncongested routes into our network, at least one of which must be with a large transit provider.

In July 2015, KPN lodged an appeal against the EC decision clearing the acquisition of the Ziggo business by Liberty Global. The VodafoneZiggo JV was not a party to these proceedings. On October 26, 2017, the General Court of the EU ruled that the EC did not state sufficient reasons for not analyzing the possible vertical anti-competitive effects on the market for premium pay TV sports channels and consequently annulled the EC decision. Article 10 (5) of the Merger Regulation provides in such a case that transaction shall be re-examined by the EC with a view to adopting a new decision. In April 2018, we filed a formal re-notification of this merger with the EC. On May 30, 2018, the EC again cleared the acquisition of the Ziggo business by Liberty Global. The earlier agreed commitments from Former Ziggo that were transferred to our company, have been extended to May 2026. On November 22, 2018, KPN lodged a pro-forma appeal with the General Court of the EU against the May 30, 2018, clearance decision of the EC. On February 15, 2019, we have, together with our shareholders, filed a request to intervene in these proceedings with the General Court and submitted our reply in June 2019. An oral hearing was held on September 15, 2020. On January 27, 2021, the General Court dismissed KPN’s appeal and the EC decision is therefore upheld.

On June 12, 2017, KPN lodged an appeal with the General Court of the EU against the EC's 2016 decision to clear the VodafoneZiggo JV between Vodafone and Liberty Global in the Netherlands. On May 23, 2019, the General Court dismissed KPN’s appeal, and KPN decided not to further appeal this verdict.

Legal Proceedings

From time to time, we may become involved in litigation relating to claims arising out of our operations in the normal course of business. We believe the ultimate resolution of any of these existing contingencies would not likely have a material adverse effect on our business, results of operations, financial condition or liquidity.

Employees

As of December 31, 2022, we, including our consolidated subsidiaries, have an aggregate of approximately 6,170 full-time equivalent employees, certain of whom belong to organized unions and works councils. Certain of our subsidiaries also use contract and temporary employees, which are not included in this number, for various projects. We believe that our employee relations are good.

MANAGEMENT AND GOVERNANCE

Management and Supervisory Directors

VodafoneZiggo is managed by the Managing Directors of its intermediate holding company, VodafoneZiggo Group Holding. The Managing Directors are responsible for the day-to-day management of the business and, among other things, the overall supervision and administration of the business activities, the appointment and removal of executive officers, and the review of financial statements for VodafoneZiggo and its affiliates. Responsibilities for operations are delegated to members of senior management.

The responsible Managing Directors are Jeroen Hoencamp as Chief Executive Officer (**CEO**) and Ritchy Drost as Chief Financial Officer (**CFO**).

Jeroen Hoencamp was appointed CEO of Vodafone NL on September 1, 2016. A Dutch citizen, he led Vodafone's U.K. business as CEO from September 2013 to September 2016 and was previously CEO of Vodafone Ireland. Before that, he spent 12 years in a number of senior executive roles (including Sales Director and Enterprise Business Unit Director) with Vodafone NL. Earlier in his career he worked in senior marketing and sales positions with Canon Southern Copy Machines, Inc. in the U.S. and Thorn EMI/Skala Home Electronics in the Netherlands. He is a former officer in the Royal Dutch Marine Corps.

Ritchy Drost was appointed CFO and member of the Management Board of Ziggo Group Holding, in September 2015. Ritchy Drost was appointed CFO, European Broadband Operations, of Liberty Global in January 2012. Mr. Drost served as Managing Director and CFO of Ziggo Services and its predecessors, from January 2006 to January 2012. Prior to that, he held various management positions after joining a predecessor of Liberty Global Europe in November 1999. Previously he was with Arthur Andersen LLP in their assurance practice.

The business address of each of the Managing Directors named above is Boven Vredenburgpassage 128, 3511 WR Utrecht, the Netherlands. There are no potential conflicts of interest between the duties of the Managing Directors noted above towards VodafoneZiggo and his or her personal interests and duties.

The Supervisory Board of VodafoneZiggo, established on the level of VodafoneZiggo Group Holding, consists of three representatives from each of Liberty Global (currently Manuel Kohnstamm, Baptiest Coopmans and Charlie Bracken), and Vodafone (currently Sateesh Kamath, Carmen Velthuis and Serpil Timuray), and two members appointed on the recommendation of the Works Council of VodafoneZiggo (currently Carla Mahieu and Huub Willems). Certain matters require approval of the Liberty Global and Vodafone representatives. The post of Chairman of the Supervisory Board will be held for alternating 12 month periods by a Liberty Global or Vodafone representative, currently Manuel Kohnstamm (Serpil Timuray from January 1, 2022 through December 31, 2022).

PRINCIPAL SHAREHOLDERS

VodafoneZiggo is wholly-owned by VodafoneZiggo Group Holding. VodafoneZiggo Group Holding is a 50:50 joint venture among Liberty Global and Vodafone.

Liberty Global is a world leader in converged broadband, video and mobile communications services. It delivers next-generation products through advanced fiber and 5G networks that connect over 86 million retail and wholesale subscribers across Europe and the United Kingdom. Liberty Global's businesses operates under some of the best-known consumer brands, including Virgin Media-O2 in the UK, VodafoneZiggo in the Netherlands, Telenet in Belgium, Sunrise UPC in Switzerland, Virgin Media in Ireland and UPC in Eastern Europe. Liberty Global, through its global investment arm Liberty Global Ventures, has a portfolio of more than 75 companies across content, technology and infrastructure, including strategic stakes in companies like Plume, ITV, Televisa Univision, AtlasEdge and the Formula E racing series.

Unique in its scale as the largest pan-European and African technology communications company, Vodafone transforms the way we live and work through its innovation, technology, connectivity, platforms, products and services. Vodafone operates mobile and fixed networks in 21 countries, and partners with mobile networks in 47 more. As of 31 December 2022, Vodafone has over 330 million mobile customers, more than 28 million fixed broadband customers, and 21 million TV customers. Vodafone is a world leader in the IoT, connecting over 155 million devices and platforms through innovation that aligns with the aspirations of society for cleaner and safer cities, better transport and improved agriculture. Vodafone's digital leadership is also changing how governments deliver healthcare and education, and how businesses, particularly Small and Medium Enterprises, serve customers.

MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

The following discussion and analysis, which should be read in conjunction with our consolidated financial statements, is intended to assist in providing an understanding of our results of operations and financial condition and is organized as follows:

- *Overview.* This section provides a general description of our business and recent events.
- *Results of Operations.* This section provides an analysis of our results of operations for the years ended December 31, 2022 and 2021.
- *Liquidity and Capital Resources.* This section provides an analysis of our corporate and subsidiary liquidity, consolidated statements of cash flows and contractual commitments.
- *Critical Accounting Policies, Judgments, and Estimates.* This section discusses those material accounting policies that involve uncertainties and require significant judgment in their application.

The capitalized terms used below have been defined in the notes to our consolidated financial statements. In the following text, the terms “we,” “our,” “our company”, and “us” may refer, as the context requires, to VodafoneZiggo or collectively to VodafoneZiggo and its subsidiaries.

Unless otherwise indicated, convenience translations into euros are calculated, and operational data is presented, as of December 31, 2022.

Included below is an analysis of our results of operations and cash flows for 2022, as compared to 2021. An analysis of our results of operations and cash flows for 2021, as compared to 2020, can be found under *Management's Discussion and Analysis of Financial Condition and Results of Operations* included in our Annual Report for the year ended December 31, 2021, which is available through the Liberty Global's website at www.libertyglobal.com.

Overview

General

VodafoneZiggo provides fixed, mobile and integrated communication and entertainment services to consumers and businesses in the Netherlands. VodafoneZiggo is a wholly-owned subsidiary of VodafoneZiggo Group Holding. VodafoneZiggo Group Holding is a 50:50 joint venture between Vodafone and Liberty Global.

Operations

Our company delivers market-leading products through next-generation networks that connect our customers to broadband internet, video, fixed-line telephony and mobile services. At December 31, 2022, we owned and operated networks that passed 7,373,300 homes and served 8,758,300 RGUs, consisting of 3,664,700 video subscribers, 3,307,000 broadband internet subscribers and 1,786,600 fixed-line telephony subscribers. In addition, at December 31, 2022, we served 5,527,600 mobile subscribers, which includes 5,156,900 postpaid subscribers.

The following table provides details of our organic RGU and mobile subscriber changes for the years indicated. Organic RGU and mobile subscriber changes exclude the effect of acquisitions (RGUs and mobile subscribers added on the acquisition date) and other non-organic adjustments, but includes post-acquisition date RGU and mobile subscriber additions or losses.

	Year ended December 31,	
	2022	2021
Organic RGU losses:		
Video *	(65,100)	(91,500)
Broadband internet	(21,200)	(35,300)
Fixed-line telephony	(278,100)	(208,100)
Total organic RGU losses	<u>(364,400)</u>	<u>(334,900)</u>
Organic mobile subscriber additions (losses):		
Postpaid net additions**	179,100	228,000
Prepaid net losses***	(9,600)	(52,400)
Total organic mobile subscriber additions	<u>169,500</u>	<u>175,600</u>

* During 2021, we made changes in our subscriber count methodology associated with certain of our B2B multiple dwelling unit subscribers, which resulted in a non-organic reduction of our Fixed-Line Customer and Video subscriber count of 10,000.

** During 2022, we reclassified 7,300 voice SIMs to IoT SIMs within B2B segment, which resulted in a non-organic reduction of our mobile postpaid SIMs count.

*** Prepaid net losses for the year ended December 31, 2022, include approximately 15,000 SIMs donated to Ukrainian refugees.

Video services. For most of our customers, we have enhanced our video offerings with various products that enable such customers to control when they watch their programming. These products range from digital video recorders to multimedia home gateway systems capable of distributing video, voice, and data content throughout the home and to multiple devices.

Broadband internet services. Following the completion of the gigabit roll-out, subscribers to our residential broadband internet services can access the internet at download speeds of up to 1 Gbps, depending on the tier of service selected. We determine pricing for each tier of broadband internet service through analysis of speed, market conditions and other factors. We continue to invest in new technologies that allow us to increase the internet speeds we offer to our customers.

Fixed-line telephony services. We offer fixed-line telephony services to all of our broadband communications subscribers, primarily using VoIP technology.

Mobile services. We offer mobile services as a mobile network operator.

B2B services. We provide B2B services, including voice, broadband internet, data, video, wireless, and cloud services.

For additional information regarding the details of our products and services, see the “*Business of VodafoneZiggo*” section in this Annual Report.

Strategy and management focus

We seek to add value to our customers through each and every connection related to our video, broadband internet, fixed-line telephony and mobile services. We enable our customers to connect with their loved ones and build new meaningful relationships and enjoy fantastic content and entertainment in familiar and refreshing ways thereby creating more satisfying experiences for our customers.

The formation of the VodafoneZiggo JV created a national, fully converged telecom company in the Netherlands and, as such, we believe we are able to better serve our customers and compete with our key competitors. As a converged telecom company, we focus on the creation of growth opportunities, including quad-play, and cross-selling and upselling opportunities. We emphasize improvement of customer satisfaction and loyalty to our company and the services we provide. Furthermore, we

leverage the knowledge and expertise of our ultimate parent companies, Liberty Global and Vodafone, and have realized material synergies as we integrated and operated as one company.

From a strategic perspective, we are building a national fixed-mobile converged communications business through continuous investment in our high speed, secured and stable fixed and mobile networks.

We strive to achieve organic revenue and customer growth in our operations by developing and marketing bundled entertainment and information and communications services, and extending and upgrading the quality of our networks. While we seek to obtain new customers, we also seek to maximize the average revenue we receive from each household by increasing the penetration of our fixed-line and mobile services with existing customers through product bundling and upselling towards a converged product offering.

Competition and Other External Factors

The Dutch market for mobile and fixed services is highly competitive and rapidly evolving. Within our mobile operations we continue to experience pressure on pricing, characterized by aggressive promotion campaigns, heavy marketing spend and increasing or unlimited data bundles. Furthermore, there is growing competition from MVNOs that focus on certain niche segments such as no frill, youth or ethnic markets. Within our fixed operations we experience increased competition, mainly as a result of competitors' emphasis on accelerating the rollout of their fiber footprint. This significant competition, together with the macroeconomic factors, has adversely impacted our revenue, RGU and average monthly subscription revenue per average fixed RGU or mobile subscriber, as applicable (**ARPU**). For additional information regarding the revenue impact of changes in the RGUs and ARPU, see *Results of Operations* below.

Results of Operations

General

Our revenue is earned in the Netherlands and is subject to applicable value added tax (**VAT**). Any increases in these taxes could have an adverse impact on our ability to maintain or increase our revenue to the extent that we are unable to pass such tax increases onto our customers.

We are subject to inflationary pressures with respect to labor, programming and other operating costs, including energy costs. In this regard, inflation rates in the Netherlands have recently increased significantly. While we attempt to increase our revenue to offset increases in costs, there is no assurance that we will be able to do so. Therefore, costs could rise faster than associated revenue, thereby resulting in a negative impact on our operating results, cash flows and liquidity. The economic environment in the Netherlands is a function of government, economic, fiscal and monetary policies and various other factors beyond our control that could lead to further inflation. We are unable to predict the extent that price levels might be impacted in future periods by the current state of the economy in the Netherlands.

Adjusted EBITDA

Adjusted EBITDA, which is a non-GAAP measure, is the primary measure used by our management to evaluate the operating performance of our businesses. It is also a key factor that is used by our management and our Supervisory Board to evaluate the effectiveness of our management for purposes of annual and other incentive compensation plans. As we use the term, "**Adjusted EBITDA**" is defined as operating income before depreciation and amortization, share-based compensation, provisions, and provision releases related to significant litigation and impairment, restructuring and other operating items. Other operating items include (i) gains and losses on the disposition of long-lived assets, (ii) third-party costs directly associated with successful and unsuccessful acquisitions and dispositions, including legal, advisory and due diligence fees, as applicable, and (iii) other acquisition-related items, such as gains and losses on the settlement of contingent consideration. Investors should view Adjusted EBITDA as a supplement to, and not a substitute for, GAAP measures of performance included in our consolidated statements of operations.

The following table provides a reconciliation of net earnings (loss) to Adjusted EBITDA:

	Year ended December 31,		
	2022	2021	2020
	in millions		
Net earnings (loss)	€ 374.4	€ (137.8)	€ (393.1)
Income tax expense	202.7	61.1	141.5
Other income, net	(4.9)	(0.6)	(0.2)
Losses on debt extinguishment, net	71.1	7.6	41.9
Foreign currency transaction losses (gains), net	344.7	380.1	(453.8)
Realized and unrealized losses (gains) on derivative instruments, net	(1,189.6)	(524.8)	387.8
Interest expense:			
Third-party	473.3	415.8	440.5
Related-party	102.2	95.5	84.0
Operating income	373.9	296.9	248.6
Impairment, restructuring and other operating items, net	12.5	37.0	(11.7)
Depreciation and amortization	1,528.4	1,580.3	1,639.7
Share-based compensation expense	—	0.5	0.3
Adjusted EBITDA	<u>€ 1,914.8</u>	<u>€ 1,914.7</u>	<u>€ 1,876.9</u>

Revenue

We earn revenue from (i) subscribers to our consumer fixed-line and mobile services and (ii) B2B services, interconnect fees, channel carriage fees, installation fees, and late fees. Consistent with the presentation of our revenue categories in note 13 to our consolidated financial statements, we use the terms “subscription revenue” and “service revenue” in the following discussion to refer to amounts received from subscribers for ongoing services. In the tables below, mobile service revenue excludes the related interconnect revenue.

Variances in the subscription and/or service revenue from our customers are a function of (i) changes in the number of RGUs or mobile subscribers outstanding during the period and (ii) changes in ARPU. Changes in ARPU can be attributable to (a) changes in prices, (b) changes in bundling or promotional discounts, (c) changes in the tier of services selected, (d) variances in subscriber usage patterns and (e) the overall mix of cable and mobile products during the period. In the following discussion, we provide the net impact of the above factors on the ARPU that is derived from our video, broadband internet, fixed-line telephony, and mobile products.

2022 compared to 2021

Revenue

Our revenue by major category is set forth below:

	Year ended		Increase (decrease)	
	December 31,		€	%
	2022	2021		
	in millions, except % amounts			
Consumer fixed revenue (a):				
Subscription revenue	€ 2,026.6	€ 2,076.8	€ (50.2)	(2.4)%
Non-subscription revenue	13.0	25.1	(12.1)	(48.2)%
Total consumer fixed revenue	2,039.6	2,101.9	(62.3)	(3.0)%
Consumer mobile revenue (b):				
Service revenue	673.7	644.2	29.5	4.6 %
Non-service revenue	236.7	247.9	(11.2)	(4.5)%
Total consumer mobile revenue	910.4	892.1	18.3	2.1 %
Total consumer revenue	2,950.0	2,994.0	(44.0)	(1.5)%
B2B fixed revenue (c):				
Subscription revenue	525.5	516.9	8.6	1.7 %
Non-subscription revenue	11.7	13.5	(1.8)	(13.3)%
Total B2B fixed revenue	537.2	530.4	6.8	1.3 %
B2B mobile revenue (d):				
Service revenue	392.0	364.8	27.2	7.5 %
Non-service revenue	145.2	130.2	15.0	11.5 %
Total B2B mobile revenue	537.2	495.0	42.2	8.5 %
Total B2B revenue	1,074.4	1,025.4	49.0	4.8 %
Other revenue (e)	41.2	57.5	(16.3)	(28.3)%
Total	€ 4,065.6	€ 4,076.9	€ (11.3)	(0.3)%

- (a) Consumer fixed revenue is classified as either subscription revenue or non-subscription revenue. Consumer fixed subscription revenue includes revenue from subscribers for ongoing broadband internet, video and telephony services offered to residential customers and the amortization of installation fee. Consumer fixed non-subscription revenue includes, among other items, interconnect, channel carriage fees, late fees and revenue from the sale of equipment. Subscription revenue from subscribers who purchase bundled services at a discounted rate is generally allocated proportionally to each service based on the stand-alone price for each individual service. As a result, changes in the stand-alone pricing of our fixed and mobile products or the composition of bundles can contribute to changes in our product revenue categories from period to period.
- (b) Consumer mobile revenue is classified as either service revenue or non-service revenue. Consumer mobile service revenue includes revenue from ongoing mobile and data services offered under postpaid and prepaid arrangements to residential customers. Consumer mobile non-service revenue includes, among other items, interconnect revenue, mobile handset and accessories sales, and late fees.
- (c) B2B fixed revenue is classified as either subscription revenue or non-subscription revenue. B2B fixed subscription revenue includes revenue from business broadband internet, video, voice, and data services, offered to SOHO, small and medium to large enterprises. B2B fixed non-subscription revenue includes, among other items, revenue from hosting services, installation fees, carriage fees and interconnect.

- (d) B2B mobile revenue is classified as either service revenue or non-service revenue. B2B mobile service revenue includes revenue from ongoing mobile and data services offered to SOHO, small and medium to large enterprise customers as well as wholesale customers. B2B mobile non-service revenue includes, among other items, interconnect revenue, mobile handset and accessories sales, and late fees.
- (e) Other revenue includes, among other items, programming, advertising and site sharing revenue.

The details of the decrease in our revenue during 2022, as compared to 2021, are set forth below:

	<u>Subscription /Service revenue</u>	<u>Non- subscription/ Non-service revenue</u>	<u>Total</u>
	<u>in millions</u>		
Increase (decrease) in consumer fixed subscription revenue due to change in:			
Average number of customers (a)	€ (73.0)	€ —	€ (73.0)
ARPU (b)	22.8	—	22.8
Decrease in consumer fixed non-subscription revenue (c)	—	(12.1)	(12.1)
Total decrease in consumer fixed revenue	(50.2)	(12.1)	(62.3)
Increase (decrease) in consumer mobile revenue (d)	29.5	(11.2)	18.3
Increase (decrease) in B2B fixed revenue (e)	8.6	(1.8)	6.8
Increase in B2B mobile revenue (f)	27.2	15.0	42.2
Decrease in other revenue (g)	—	(16.3)	(16.3)
Total	<u>€ 15.1</u>	<u>€ (26.4)</u>	<u>€ (11.3)</u>

- (a) The decrease in fixed subscription revenue related to a change in the average number of customers is attributable to the loss of certain sports content as well as increased pressure from competitors.
- (b) The increase in fixed subscription revenue related to a change in ARPU is primarily attributable to the net effect of (i) the annual price increase implemented on July 1, 2022 and (ii) lower national out of bundle usage.
- (c) The decrease in consumer fixed non-subscription revenue is primarily attributable to lower customer premise equipment (CPE) sales.
- (d) The increase in consumer mobile service revenue is primarily attributable to the net effect of (i) strong customer base growth, (ii) price indexation, (iii) an increase in roaming revenue and (iv) a decrease in national out-of-bundle revenue. The decrease in consumer mobile non-service revenue is largely attributable to (i) a decrease in mobile handset sales and (ii) a decrease in interconnect revenue.
- (e) The increase in B2B fixed subscription revenue is primarily attributable to the net effect of (i) higher average numbers of SOHO and Small Business RGUs and Unified Communication seats and (ii) lower volumes of national calls.
- (f) The increase in B2B mobile service revenue is primarily attributable to the net effect of (i) an increase in roaming out-of-bundle revenue, (ii) an increase in IoT revenue, (iii) an increase in average number of customers, (iv) lower out-of-bundle usage and (v) pricing pressure in the large corporate segment. The increase in B2B mobile non-service revenue are primarily attributable to (a) an increase in visitor revenue and (b) an increase in sales volumes of other equipment.
- (g) The decrease in other revenue is largely attributable to an decrease in third-party revenue from our sports content channel Ziggo Sport.

Programming and other direct costs of services

Programming and other direct costs of services include programming and copyright costs, mobile access and interconnect costs, costs of mobile handset and other devices and other direct costs related to our operations. Programming and copyright costs, represent a significant portion of our operating costs and are subject to increase in future periods as a result of (i) higher costs associated with the expansion of our digital video content, including rights associated with ancillary product offerings and rights that provide for the broadcast of live sporting events, and (ii) rate increases. In addition, we are subject to inflationary pressures with respect to our labor and other costs. Any cost increases that we are not able to pass on to our subscribers through rate increases would result in increased pressure on our operating margins.

Our programming and other direct costs of services decreased by €23.2 million or 2.7% during 2022, as compared to 2021. This decrease includes the net effect of the following factors:

- A decrease in programming and copyright costs of €13.5 million or 4.3%, primarily attributable to the net impact of contract renewals and expirations in 2021 and 2022, which resulted in (i) lower costs for certain premium sport content, (ii) lower costs for copyrights, (iii) higher costs for video on demand services and (iv) higher costs for basic content;
- A decrease in equipment costs of €10.3 million or 4.6%, primarily attributable to the net effect of (i) a decrease in sales volumes of mobile handsets and other equipment, (ii) higher average costs per mobile handset sold and (iii) a higher obsolete stock provision;
- An increase in other direct costs of €7.3 million or 4.4%, primarily attributable to the net effect of (i) higher B2B fixed programming costs due to an increase in customer base, (ii) higher material and sales costs and (iii) a decrease in costs for customer premise equipment; and
- A decrease in interconnect costs of €6.7 million or 4.2%, primarily attributable to the net effect of (i) lower freephone usage of the corona number and (ii) an increase in mobile roaming costs.

Other operating expenses

Other operating expenses include network operations, customer operations, customer care, and other costs related to our operations.

Our other operating expenses decreased by €3.3 million or 0.7% during 2022, as compared to 2021. This decrease includes the net effect of the following factors:

- An increase in business service costs of €26.9 million or 56.2%, primarily due to (i) an increase in energy costs due to higher energy prices and (ii) higher consultancy costs;
- A decrease in personnel costs of €19.5 million or 9.2%, primarily driven by (i) lower staffing levels, (ii) a decrease in external staff, (iii) an increase in capitalization of labor costs;
- A decrease in customer service costs of €15.5 million or 20.3%, primarily driven by (i) less inbound traffic and (ii) lower refurbishment and logistic cost;
- An increase in service delivery platform expenses of €5.2 million or 11.9%, mainly driven by higher site rental costs in 2022;
- A decrease in access costs of €2.8 million or 13.3%, as a result of lower contracted labor costs; and
- An increase in other indirect costs of €1.5 million or 7.8%, primarily due to an increase in bad debt expenses.

SG&A expenses

SG&A expenses include human resources, information technology, general services, management, finance, legal, external sales and marketing costs, share-based compensation, and other general expenses.

Our SG&A expenses increased by €15.3 million or 2.5% during 2022, as compared to 2021. This increase includes the net effect of the following factors:

- An increase in business service costs of €8.7 million or 12.4%, primarily driven by (i) higher consultancy costs and (ii) an increase in business events;
- A decrease in other indirect costs of €8.0 million or 27.7%, primarily driven by the impact of an accrual release following expiration of our legal obligation;
- An increase in sales and marketing costs of €7.1 million or 3.4%, primarily driven by (i) an increase in expenditures for marketing campaigns and (ii) the impact of a write-off of deferred sales costs following a review of our capitalization process; and
- An increase in personnel costs of €6.8 million or 2.7%, primarily driven by higher average cost per FTE.

Charges for JV Services

We recorded charges for JV Services of €214.3 million during 2022, as compared to €215.0 million during 2021. For additional information regarding charges for JV Services, see note 11 to our consolidated financial statements.

Depreciation and amortization expense

Our depreciation and amortization expenses decreased by €51.9 million or 3.3% during 2022, as compared to 2021. This decrease is primarily attributable to lower depreciation expense associated with certain assets becoming fully depreciated.

Impairment, restructuring, and other operating items, net

During 2022, we recognized impairment, restructuring and other operating items, net, of €12.5 million, including (i) restructuring charges of €10.4 million, (ii) acquisition and disposition costs of €2.2 million, (iii) impairment charges related to tangible assets of €0.8 million and (iv) a gain from disposal of assets of €0.9 million.

During 2021, we recognized impairment, restructuring and other operating items, net, of €37.0 million, including (i) restructuring charges of €25.4 million, (ii) acquisition and disposition costs of €10.2 million, (iii) impairment charges related to tangible assets of €2.5 million and (iv) a gain from disposal of assets of €1.1 million.

Interest expense—third-party

Our third-party interest expense increased by €57.5 million or 13.8% during 2022 as compared to 2021, primarily due to (i) increased interest rates on variable interest rate debt and (ii) a higher average outstanding third-party loan balance. For additional information regarding our third-party debt, see note 8 to our consolidated financial statements.

It is possible that the interest rates on (i) any new borrowings could be higher than the current interest rates on our existing indebtedness and (ii) our variable-rate indebtedness could increase in future periods. As further discussed in note 5 to our consolidated financial statements, we use derivative instruments to manage our interest rate risks.

In July 2017, the U.K. Financial Conduct Authority (the authority that regulates LIBOR) announced that it intends to stop compelling banks to submit rates for the calculation of LIBOR after 2021. Additionally, the European Money Markets Institute (the authority that administers EURIBOR) announced that measures would need to be undertaken by the end of 2021 to reform EURIBOR to ensure compliance with E.U. Benchmarks Regulation. In November 2020, ICE Benchmark administration (the entity that administers LIBOR) announced its intention to continue publishing USD LIBOR rates until June 30, 2023, with the exception of the one-week and two-month rates which, along with all GBP LIBOR rates, it ceased to publish after December

31, 2021. Furthermore, in November 2022, the U.K. Financial Conduct Authority proposed that certain tenors of USD LIBOR would continue to be published on a synthetic basis until the end of September 2024. While this extension allows additional runway on existing contracts using USD LIBOR rates, companies are still encouraged to transition away from using USD LIBOR as soon as practicable and should not enter into new contracts that use USD LIBOR after 2021. The methodology for EURIBOR has been reformed and EURIBOR has been granted regulatory approval to continue to be used. Currently, there is no consensus amongst loan borrowers and investors for what rate(s) should replace USD LIBOR.

In October 2020, the International Swaps and Derivatives Association (the **ISDA**) launched a new supplement (the Fallback Supplement), which, as of January 25, 2021, amended the standard definitions for interest rate derivatives to incorporate fallbacks for derivatives linked to certain key interbank offered rates (**IBORs**). The ISDA also launched the Fallback Protocol, a protocol that enables market participants to incorporate these revisions into their legacy non-cleared derivatives with other counterparties that choose to adhere to the protocol. The fallbacks for a particular currency apply following a permanent cessation of the IBOR in that currency, or in the case of a LIBOR setting, that LIBOR setting becoming permanently unrepresentative, and are adjusted versions of the risk-free rates identified in each currency. Our credit agreements contain provisions that contemplate alternative calculations of the base rate applicable to our LIBOR-indexed and EURIBOR-indexed debt to the extent LIBOR or EURIBOR (as applicable) are not available. We do not anticipate the alternative calculations to be materially different from what would have been calculated under LIBOR or EURIBOR (as applicable). Additionally, no mandatory prepayment or redemption provisions would be triggered under our credit agreements in the event that either the LIBOR rate or the EURIBOR rate is not available. It is possible, however, that any new reference rate that applies to our LIBOR-indexed or EURIBOR-indexed debt could be different than any new reference rate that applies to our LIBOR-indexed or EURIBOR-indexed derivative instruments. For discontinued tenors, we expect to continue taking steps to mitigate the changes in these benchmark rates, including by amending existing credit agreements and adhering to the Fallback Protocol, where appropriate. We plan to continue to manage this difference and any resulting increased variable-rate exposure through modifications to our debt and/or derivative instruments, however future market conditions may not allow immediate implementation of desired modifications and our subsidiaries may incur significant associated costs.

Interest expense—related-party

Our related-party interest expense increased by €6.7 million or 7.0% during 2022 as compared to 2021. This increase is primarily attributable to a higher average outstanding loan balance. For additional information regarding our related-party debt, see note 11 to our consolidated financial statements.

Realized and unrealized gains (losses) on derivative instruments, net

Our realized and unrealized gains or losses on derivative instruments include (i) unrealized changes in the fair values of our derivative instruments that are non-cash in nature until such time as the derivative contracts are fully or partially settled and (ii) realized gains or losses upon the full or partial settlement of the derivative contracts.

The details of our realized and unrealized gains on derivative instruments, net, are as follows:

	Year ended	
	December 31,	
	2022	2021
	in millions	
Cross-currency and interest rate derivative contracts (a)	€ 1,189.3	€ 524.4
Foreign currency forward contracts	0.3	0.4
Total	€ 1,189.6	€ 524.8

- (a) The gains for 2022 and 2021 periods are primarily attributable to (i) net gains associated with changes in the relative value of the euro to the U.S. dollar and (ii) net gains associated with changes in certain market interest rates. In addition, the results include a net loss of €36.8 million and €65.4 million during 2022 and 2021, respectively, resulting from changes in credit risk valuation adjustments.

For additional information regarding our derivative instruments, see notes 5 and 6 to our consolidated financial statements.

Foreign currency transaction losses, net

Our foreign currency transaction gains or losses primarily result from the remeasurement of monetary assets and liabilities that are denominated in currencies other than our functional currency. Unrealized foreign currency transaction gains or losses are computed based on period-end exchange rates and are non-cash in nature until such time as the amounts are settled.

The details of our foreign currency transaction losses, net, are as follows:

	Year ended	
	December 31,	
	2022	2021
	in millions	
U.S. dollar-denominated debt	€ (345.3)	€ (379.4)
Restricted cash and cash denominated in a currency other than our functional currency	1.4	0.1
Other	(0.8)	(0.8)
Total	€ (344.7)	€ (380.1)

Losses on debt extinguishment, net

We recognized a net loss on debt extinguishment, of €71.1 million during 2022, attributable to (i) the payment of €52.0 million of redemption premiums and (ii) the write off of €19.1 million of fair value adjustments and unamortized deferred financing costs.

We recognized a net loss on debt extinguishment, of €7.6 million during 2021, attributable to (i) the payment of €5.0 million of redemption premiums and (ii) the write off of €2.6 million of fair value adjustments and unamortized deferred financing costs.

For additional information concerning our losses on debt extinguishment, net, see note 8 to our consolidated financial statements.

Income tax expense

We recognized income tax expense of €202.7 million and €61.1 million during 2022 and 2021, respectively.

The income tax expense recognized during 2022 differs from the expected income tax expense of €148.9 million (based on the Dutch income tax rate of 25.8%), primarily due to interest deduction limitations.

The income tax expense recognized during 2021 differs from the expected income tax benefit of €19.2 million (based on the enacted Dutch income tax rate for 2021 of 25.0%) and is primarily attributable to enacted changes in tax law during 2021, effective January 1, 2022, resulting in (i) an increase in the income tax rate and (ii) a limitation of the general interest deduction.

For additional information regarding our income taxes, see note 10 to our consolidated financial statements.

Net earnings (loss)

During 2022 and 2021, we reported net earnings (losses) of €374.4 million and (€137.8 million), respectively, including (i) operating income of €373.9 million and €296.9 million, respectively, (ii) net non-operating income (expense) of €203.2 million and (€373.6 million), respectively, and (iii) income tax expense of €202.7 million and €61.1 million, respectively.

Gains or losses associated with (i) changes in the fair values of derivative instruments, (ii) movements in foreign currency exchange rates and (iii) the disposition of assets are subject to a high degree of volatility and, as such, any gains from these sources do not represent a reliable source of income. In the absence of significant gains in the future from these sources or from other non-operating items, our ability to achieve earnings from operations is largely dependent on our ability to increase our Adjusted EBITDA to a level that more than offsets the aggregate amount of our (a) depreciation and amortization, (b) impairment, restructuring and other operating items, net, (c) interest expense, (d) other income and (e) income tax expenses.

Subject to the limitations included in our various debt instruments, we expect to maintain our debt at current levels relative to our Covenant EBITDA. As a result, we expect that we will continue to report significant levels of interest expense for the foreseeable future. For information concerning our expectations with respect to trends that may affect our operating results in future periods, see the discussion under *Overview* above.

Liquidity and Capital Resources

Sources and Uses of Cash

As a holding company, VodafoneZiggo's primary assets are its investments in consolidated subsidiaries. As further described in note 8 to our consolidated financial statements, the terms of the instruments governing the indebtedness of certain of these subsidiaries may restrict our ability to access the assets of these subsidiaries. The ability to access the liquidity of our subsidiaries may also be limited by tax and legal considerations and other factors. At December 31, 2022, most of our €93.6 million of consolidated cash was held by our subsidiaries.

Liquidity of VodafoneZiggo

Our sources of liquidity at the parent level include, subject to the restrictions noted above, proceeds in the form of distributions or loans from our subsidiaries. It is the intention of the Shareholders of the VodafoneZiggo JV, that VodafoneZiggo will be a self-funding company capable of financing its activities on a stand-alone basis without recourse to either Shareholder. No assurance can be given that funding from our subsidiaries or external sources would be available on favorable terms, or at all.

VodafoneZiggo's corporate liquidity requirements include corporate general and administrative expenses and fees associated with the JV Service Agreements. From time to time, VodafoneZiggo may also require cash in connection with (i) the repayment of its related-party debt and interest, (ii) the funding of dividends or distributions pursuant to the Shareholders Agreement, which requires VodafoneZiggo to distribute all unrestricted cash (as defined in the Shareholders Agreement) to the Shareholders every three months (subject to VodafoneZiggo maintaining a minimum amount of cash and complying with the terms of its financing arrangements), (iii) the satisfaction of contingent liabilities, (iv) acquisitions and other investment opportunities and (v) income tax payments.

Liquidity of our Subsidiaries

In addition to cash, the primary sources of liquidity of our operating subsidiaries are cash provided by operations and, in the case of Ziggo B.V. and certain of its subsidiaries, any borrowing availability under the Revolving Facilities.

The liquidity of our operating subsidiaries generally is used to fund property and equipment additions, debt service requirements, and other liquidity requirements that may arise from time to time. For additional information regarding our consolidated cash flows, see the discussion under *Consolidated Statements of Cash Flows* below. Our subsidiaries may also require funding in connection with (i) the repayment of amounts due under the third-party and related-party debt instruments of our subsidiaries, (ii) acquisitions and other investment opportunities, including the acquisition of spectrum licenses, (iii) distributions or loans to VodafoneZiggo (and ultimately to the Shareholders of the VodafoneZiggo JV) or (iv) the satisfaction of contingencies. No assurance can be given that any external funding would be available to our subsidiaries on favorable terms, or at all.

Capitalization

At December 31, 2022, the outstanding principal amount of our third-party debt and finance lease obligations aggregated €11.4 billion, including €1.1 billion that is classified as current on our consolidated balance sheet and €9.6 billion that is not due until 2028 or thereafter. For additional information regarding our current debt maturities, see note 8 to our consolidated financial statements.

As further discussed in note 5 to our consolidated financial statements, we use derivative instruments to mitigate foreign currency and interest rate risk associated with our debt instruments.

Our ability to service or refinance our debt and to maintain compliance with the leverage covenants in our credit agreements and indentures is dependent primarily on our ability to maintain or increase our Covenant EBITDA and to achieve adequate returns on our property and equipment additions and acquisitions. Pursuant to the Shareholders Agreement, we expect to maintain a leverage ratio between 4.5 and 5.0 times Covenant EBITDA. In addition, our ability to obtain additional debt financing is limited by the leverage covenants contained in the various debt instruments of our subsidiaries. In this regard, if our Covenant EBITDA were to decline, we could be required to repay or limit our borrowings under the Credit Facility in order to maintain compliance with applicable covenants. No assurance can be given that we would have sufficient sources of liquidity, or that any external funding would be available on favorable terms, or at all, to fund any such required repayment. We do not anticipate any instances of non-compliance with respect to any of our subsidiaries' debt covenants that would have a material adverse impact on our liquidity during the next 12 months.

Notwithstanding our negative working capital position at December 31, 2022, we believe that we have sufficient resources to repay or refinance the current portion of our debt and finance lease obligations and to fund our foreseeable liquidity requirements during the next 12 months. However, as our maturing debt grows in later years, we anticipate that we will seek to refinance or otherwise extend our debt maturities. No assurance can be given that we will be able to complete these refinancing transactions or otherwise extend our debt maturities. In this regard, it is not possible to predict how political and economic conditions (including with respect to the ongoing invasion of Ukraine), sovereign debt concerns or any adverse regulatory developments could impact the credit markets we access and, accordingly, our future liquidity and financial position. Our ability to access debt financing at favorable terms, or at all, could be adversely impacted by (i) the financial failure of any of our counterparties, which could (a) reduce amounts available under committed credit facilities and (b) adversely impact our ability to access cash deposited with any failed financial institution and (ii) tightening of the credit markets. In addition, sustained or increased competition, particularly in combination with adverse economic or regulatory developments, could have an unfavorable impact on our cash flows and liquidity.

All of our debt and finance lease obligations at December 31, 2022 have been borrowed or incurred by our subsidiaries.

For additional information regarding our debt and finance lease obligations, see note 8 and 9, respectively, to our consolidated financial statements.

Consolidated Statements of Cash Flows

Summary. Our consolidated statements of cash flows for 2022 and 2021 are summarized as follows:

	Year ended December 31,		
	2022	2021	Change
	in millions		
Net cash provided by operating activities	€ 1,386.5	€ 1,441.1	€ (54.6)
Net cash used by investing activities	(489.3)	(505.7)	16.4
Net cash used by financing activities	(1,045.9)	(990.4)	(55.5)
Effect of exchange rate changes on cash and cash equivalents and restricted cash	1.3	0.2	1.1
Net decrease in cash and cash equivalents and restricted cash	€ (147.4)	€ (54.8)	€ (92.6)

Operating Activities. The decrease in net cash provided by our operating activities is primarily attributable to the net effect of (i) higher cash paid for corporate income taxes and (ii) other working capital changes.

Investing Activities. The decrease in net cash used by our investing activities is primarily attributable to the net effect of (i) a decrease in cash paid for spectrum licenses of €207.9 million, partially offset by (ii) an increase in property and equipment additions of €110.7 million, (iii) a change in current liabilities related to capital expenditures of €41.2 million and (iv) a decrease in assets acquired under capital-related vendor financing arrangements of €37.4 million.

The capital expenditures that we report in our consolidated statements of cash flows do not include amounts that our company has financed under vendor financing or finance lease arrangements. Instead, these expenditures are reflected as non-cash additions to our property and equipment when the underlying assets are delivered, and as repayments of debt when the principal is repaid. In this discussion, we refer to (i) our capital expenditures as reported in our consolidated statements of cash flows, which exclude amounts financed under vendor financing or finance lease arrangements, and (ii) our total property and equipment additions, which include our capital expenditures on an accrual basis and amounts financed under capital-related vendor financing or finance lease arrangements. For further details regarding our property and equipment additions and our debt, see notes 7 and 8, respectively, to our consolidated financial statements. Spectrum license additions include capital expenditures for spectrum licenses on an accrual basis.

A reconciliation of our property and equipment additions to our capital expenditures as reported in our consolidated statements of cash flows is set forth below:

	Year ended December 31,	
	2022	2021
	in millions	
Property and equipment additions	€ 948.2	€ 837.5
Assets acquired under capital-related vendor financing arrangements	(462.8)	(500.2)
Assets acquired under finance leases	(3.4)	(7.1)
Changes in current liabilities related to capital expenditures	9.1	(32.1)
Capital expenditures	€ 491.1	€ 298.1

The increase in our property and equipment additions is primarily attributable to an increase in our customer premises equipment and baseline expenditures, partially offset by a decrease in new build and upgrade expenditures.

We paid €207.9 million in 2021 related to the acquisition and renewal of spectrum licenses during the multi-band spectrum auction in July 2020.

Financing Activities. The decrease in net cash used by our financing activities is primarily attributable to the net effect of (i) higher payments of financing costs and debt premiums of €66.1 million, (ii) a decrease in cash used of €28.2 million due to lower net repayments of vendor financing, (iii) lower net borrowings of third-party and related-party debt of €50.2 million and (iv) a decrease in distributions to VodafoneZiggo Group Holding of €30.0 million.

Contractual Commitments

The following table sets forth the euro equivalents of our commitments as of December 31, 2022:

	Payments due during:						Total
	2023	2024	2025	2026	2027	Thereafter	
	in millions						
Debt (excluding interest):							
Third-party	€1,100.4	€ 39.0	€ 43.8	€ —	€ 583.5	€ 9,578.2	€11,344.9
Related-party	—	—	—	—	—	1,815.8	1,815.8
Finance leases	7.0	5.2	2.9	1.0	0.3	—	16.4
Operating leases	81.9	74.7	55.5	45.7	37.4	107.8	403.0
Programming commitments	122.8	124.6	91.6	50.2	30.0	12.0	431.2
Purchase commitments	245.3	15.0	10.8	1.2	0.4	0.1	272.8
JV Service Agreements (a)	93.4	36.4	32.3	31.9	30.5	30.0	254.5
Other commitments	25.2	23.7	15.7	7.6	7.2	32.2	111.6
Total (b)	<u>€1,676.0</u>	<u>€ 318.6</u>	<u>€ 252.6</u>	<u>€ 137.6</u>	<u>€ 689.3</u>	<u>€11,576.1</u>	<u>€14,650.2</u>
Projected cash interest payments on debt and finance lease obligations (c):							
Third-party	€ 505.3	€ 506.8	€ 505.1	€ 497.8	€ 478.8	€ 906.3	€ 3,400.1
Related-party	102.2	102.2	102.4	102.2	102.2	306.5	817.7
Total	<u>€ 607.5</u>	<u>€ 609.0</u>	<u>€ 607.5</u>	<u>€ 600.0</u>	<u>€ 581.0</u>	<u>€ 1,212.8</u>	<u>€ 4,217.8</u>

- (a) Amounts represent fixed minimum charges from Liberty Global and Vodafone pursuant to the JV Service Agreements. In addition to the fixed minimum charges, the JV Service Agreements provide for certain JV Services to be charged to us based upon usage of the services received. The fixed minimum charges set forth in the table above exclude fees for the usage-based services as these fees will vary from period to period. Accordingly, we expect to incur charges in addition to those set forth in the table above for usage-based services. For additional information concerning the JV Service Agreements, see note 11 to our consolidated financial statements.
- (b) The commitments included in this table do not reflect any liabilities that are included in our December 31, 2022 consolidated balance sheet other than debt, finance lease obligations and operating lease obligations.
- (c) Amounts include interest payments on third-party debt and finance lease obligations, as well as on the Liberty Global Notes and the Vodafone Notes. Amounts related to third-party are based on interest rates, interest payment dates, commitment fees and contractual maturities in effect as of December 31, 2022. These amounts are presented for illustrative purposes only and will likely differ from the actual cash payments required in future periods. In addition, the amounts presented do not include the impact of our interest rate derivative contracts, deferred financing costs or original issue premiums or discounts.

For additional information concerning our debt and finance lease obligations, see note 8 and 9 to our consolidated financial statements. For additional information concerning the Liberty Global Notes and the Vodafone Notes, see note 11 to our consolidated financial statements. For information concerning our commitments, see note 12 to our consolidated financial statements.

In addition to the commitments set forth in the table above, we have commitments under (i) derivative instruments and (ii) multiemployer benefit plans, pursuant to which we expect to make payments in future periods. For information regarding projected cash flows associated with these derivative instruments, see *Projected Cash Flows Associated with Derivative Instruments* below. For information regarding our derivative instruments, including the net cash paid or received in connection with these instruments during 2022 and 2021, see note 5 to our consolidated financial statements.

Projected Cash Flows Associated with Derivative Instruments

The following table provides information regarding the projected cash flows associated with our derivative instruments. The euro equivalents presented below are based on interest rates and exchange rates that were in effect as of December 31, 2022. These amounts are presented for illustrative purposes only and will likely differ from the actual cash receipts/payments in future periods. For additional information regarding our derivative instruments, including our counterparty credit risk, see note 5 to our consolidated financial statements.

	Receipts due during:						Total
	2023	2024	2025	2026	2027	Thereafter	
	in millions						
Projected derivative cash receipts, net:							
Interest-related (a).....	€ 97.1	€ 127.2	€ 122.0	€ 116.1	€ 116.2	€ 87.0	€ 665.6
Principal-related (b).....	—	—	15.0	—	—	517.5	532.5
Total	€ 97.1	€ 127.2	€ 137.0	€ 116.1	€ 116.2	€ 604.5	€ 1,198.1

(a) Includes (i) the cash flows of our interest rate cap and floor contracts and (ii) the interest-related cash flows of our cross-currency and interest rate swap contracts.

(b) Includes the principal-related cash flows of our cross-currency swap contracts.

Critical Accounting Policies, Judgments, and Estimates

In connection with the preparation of our consolidated financial statements, we make estimates and assumptions that affect the reported amounts of assets and liabilities, revenue and expenses and related disclosure of contingent assets and liabilities. Critical accounting policies are defined as those policies that are reflective of significant judgments, estimates and uncertainties, which would potentially result in materially different results under different assumptions and conditions. We believe the following accounting policies are critical in the preparation of our consolidated financial statements because of the judgment necessary to account for these matters and the significant estimates involved, which are susceptible to change:

- Impairment of goodwill;
- Costs associated with capitalization of property and equipment;
- Fair value measurements; and
- Income tax accounting.

For additional information concerning our significant accounting policies, see note 3 to our consolidated financial statements.

Impairment of Goodwill

Carrying Value. The aggregate carrying value of our goodwill comprised 39.1% of our total assets at December 31, 2022.

We evaluate goodwill for impairment at least annually on October 1 and whenever facts and circumstances indicate that the carrying amount may not be recoverable. For impairment evaluations with respect to goodwill, we first make a qualitative assessment to determine if the goodwill may be impaired. If it is more-likely-than-not that the reporting unit's fair value is less than its carrying value, we then compare the fair value of the reporting unit to its respective carrying amount. Any excess of the carrying amount over the fair value would be charged to operations as an impairment loss. A reporting unit is an operating segment or one level below an operating segment (referred to as a "component").

When required, considerable management judgment is necessary to estimate the fair value of reporting units. We typically determine fair value using an income-based approach (discounted cash flows) based on assumptions in our long-range business plans and, in some cases, a combination of an income-based approach and a market-based approach. With respect to our discounted cash flow analysis used in the income-based approach, the timing and amount of future cash flows under these business plans require estimates of, among other items, subscriber growth and retention rates, rates charged per product, expected gross margins and Adjusted EBITDA margins and expected property and equipment additions. The development of these cash flows, and the discount rate applied to the cash flows, is subject to inherent uncertainties, and actual results could vary significantly from such estimates. Our determination of the discount rate is based on a weighted average cost of capital approach, which uses a market participant's cost of equity and after-tax cost of debt and reflects the risks inherent in the cash flows.

During the three years ended December 31, 2022, we did not record any significant impairment charges with respect to our goodwill. For additional information regarding our long-lived assets, see note 7 to our consolidated financial statements.

If, among other factors, the adverse impacts of economic, competitive, regulatory or other factors were to cause our results of operations or cash flows to be worse than anticipated, or if our weighted average cost of capital increases, we could conclude in future periods that impairment charges are required in order to reduce the carrying values of our goodwill. Any such impairment charges could be significant.

Costs Associated with Capitalization of Property and Equipment

We capitalize costs associated with the construction of new, or upgrades to existing, fixed and mobile transmission and distribution facilities, the installation of new fixed-line services and the development of internal-use software. Installation activities that are capitalized include (i) the initial connection (or drop) from our fixed-line system to a customer location, (ii) the replacement of a drop and (iii) the installation of equipment for new, or upgrades to existing, fixed-line services. The costs

of other customer-facing activities, such as reconnecting customer locations where a drop already exists, disconnecting customer locations and repairing or maintaining drops, are expensed as incurred. We capitalize internal and external costs directly associated with the development of internal-use software.

We make judgments regarding the construction, upgrade and installation activities to be capitalized and the development of internal-use software. In addition to direct external and internal labor and materials, we also capitalize other costs directly attributable to our construction and installation activities, including dispatch costs, quality-control costs, vehicle-related costs and certain warehouse-related costs. The capitalization of these costs is based on time sheets, standard costs, call tracking systems and other verifiable means that directly link the costs incurred with the applicable capitalizable activity. We continuously monitor the appropriateness of our capitalization policies and update the policies when necessary to respond to changes in facts and circumstances, such as the development of new products and services and changes in the manner that installations, construction or upgrade activities or the development of internal-use software are performed.

Fair Value Measurements

GAAP provides guidance with respect to the recurring and nonrecurring fair value measurements and for a fair value hierarchy that prioritizes the inputs to valuation techniques used to measure fair value into three broad levels. Level 1 inputs are quoted market prices in active markets for identical assets or liabilities that the reporting entity has the ability to access at the measurement date. Level 2 inputs are inputs other than quoted market prices included within Level 1 that are observable for the asset or liability, either directly or indirectly. Level 3 inputs are unobservable inputs for the asset or liability.

Recurring Valuations. We perform recurring fair value measurements with respect to our derivative instruments. We use cash flow valuation models to determine the fair values of our interest rate and foreign currency derivative instruments. For a detailed discussion of the inputs we use to determine the fair value of our derivative instruments, see note 6 to our consolidated financial statements. See also note 5 to our consolidated financial statements for information concerning our derivative instruments.

Changes in the fair values of our derivative instruments have had, and we believe will continue to have, a significant and volatile impact on our results. During 2022, 2021 and 2020, we recognized net gains (losses) of €1,189.6 million, €524.8 million and (€387.8 million), respectively, attributable to changes in the fair values of these items.

As further described in note 5 to our consolidated financial statements, actual amounts received or paid upon the settlement or disposition of these instruments may differ materially from the recorded fair values at December 31, 2022.

Nonrecurring Valuations. Our nonrecurring valuations are primarily associated with (i) the application of acquisition accounting, (ii) impairment assessments, and (iii) fair value assessments, each of which require that we make fair value determinations as of the applicable valuation date. In making these determinations, we are required to make estimates and assumptions that affect the recorded amounts, including, but not limited to, expected future cash flows, market comparables and discount rates, remaining useful lives of long-lived assets, replacement or reproduction costs of property and equipment and the amounts to be recovered in future periods from acquired net operating losses and other deferred tax assets. To assist us in making these fair value determinations, we may engage third-party valuation specialists. Our estimates in this area impact, among other items, the amount of depreciation and amortization, impairment charges and income tax expense or benefit that we report. Our estimates of fair value are based upon assumptions we believe to be reasonable, but which are inherently uncertain. A significant portion of our long-lived assets were initially recorded through the application of acquisition accounting and all of our long-lived assets are subject to impairment assessments. For additional information see note 6 to our consolidated financial statements. For information regarding the long-lived assets, see note 7 to our consolidated financial statements.

Income Tax Accounting

Tax laws in the Netherlands are subject to varied interpretation, and many tax positions we take may be subject to uncertainty regarding whether the position will be ultimately sustained after review by the relevant tax authority. We recognize the financial statement effects of a tax position when it is more-likely-than-not, based on technical merits, that the position will be sustained upon examination. The determination of whether the tax position meets the more-likely-than-not threshold requires a facts-based judgment using all information available.

We are required to estimate the amount of tax payable or refundable for the current year and the deferred tax assets and liabilities for the future tax consequences attributable to differences between the financial statement carrying amounts and income tax basis of assets and liabilities and the expected benefits of utilizing tax credit carryforwards, using enacted tax rates in effect for the year in which those temporary differences are expected to be recovered or settled. This process requires our management to make assessments regarding the timing and probability of the ultimate tax impact of such items.

Net deferred tax assets are reduced by a valuation allowance if we believe that it is more-likely-than-not such net deferred tax assets will not be realized. Establishing or reducing a tax valuation allowance requires us to make assessments about the timing of future events, including the probability of expected future taxable income and available tax planning strategies. At December 31, 2022, the aggregate valuation allowance provided against deferred tax assets was €97.8 million. The actual amount of income tax benefits realized in future periods will likely differ from the net deferred tax assets reflected in our December 31, 2022 consolidated balance sheet due to, among other factors, possible future changes in income tax law or interpretations thereof and differences between estimated and actual future taxable income. Any such factors could have a material effect on our current and deferred tax positions as reported in our consolidated financial statements. A high degree of judgment is required to assess the impact of possible future outcomes on our current and deferred tax positions.

For additional information concerning our income taxes, see note 10 to our consolidated financial statements.

INDEPENDENT AUDITOR'S REPORT

The Management Board
VodafoneZiggo Group B.V.

Report on the audit of the accompanying consolidated financial statements

Our opinion

We have audited the consolidated financial statements 2022 of VodafoneZiggo Group B.V., based in Utrecht, the Netherlands.

In our opinion the accompanying consolidated financial statements give a true and fair view of the financial position of VodafoneZiggo Group B.V. as at December 31, 2022 and of the result of its operations and its cash flows for the year ended December 31, 2022 in accordance with U.S. generally accepted accounting principles.

The Consolidated Financial Statements comprise:

1. the Consolidated Balance Sheet as of December 31, 2022;
2. the Consolidated Statement of Operations, Owner's Equity and Cash Flows for the year ended December 31, 2022;
and
3. the related notes to the Consolidated Financial Statements.

Basis for our opinion

We conducted our audit in accordance with Dutch law, including the Dutch Standards on Auditing. Our responsibilities under those standards are further described in the 'Our responsibilities for the audit of the consolidated financial statements' section of our report.

We are independent of VodafoneZiggo Group B.V. in accordance with the 'Verordening inzake de onafhankelijkheid van accountants bij assurance-opdrachten' (ViO, Code of Ethics for Professional Accountants, a regulation with respect to independence) and other relevant independence regulations in the Netherlands. Furthermore, we have complied with the 'Verordening gedrags- en beroepsregels accountants' (VGBA, Dutch Code of Ethics).

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

Report on the other information included in the Annual Report

In addition to the consolidated financial statements and our auditor's report thereon, the annual report contains other information that consists of:

- Forward-looking Statements;
- Business; and
- Management's Discussion and Analysis of Financial Condition and Results of Operations.

Based on the following procedures performed, we conclude that the other information is consistent with the consolidated financial statements and does not contain material misstatements.

We have read the other information. Based on our knowledge and understanding obtained through our audit of the consolidated financial statements or otherwise, we have considered whether the other information contains material misstatements.

By performing these procedures, we comply with the requirements of the Dutch Standard 720. The scope of the procedures performed is less than the scope of those performed in our audit of the consolidated financial statements.

The Management Board is responsible for the preparation of the other information.

Description of the responsibilities for the consolidated financial statements

Responsibilities of the Management Board for the consolidated financial statements

The Management Board is responsible for the preparation and fair presentation of the consolidated financial statements in accordance with U.S. generally accepted accounting principles. Furthermore, the Management Board is responsible for such internal control as the Management Board determines is necessary to enable the preparation of the consolidated financial statements that are free from material misstatement, whether due to errors or fraud.

As part of the preparation of the consolidated financial statements, the Management Board is responsible for assessing the Company's ability to continue as a going concern. Based on the financial reporting framework mentioned, the Management Board should prepare the consolidated financial statements using the going concern basis of accounting unless the Management Board either intends to liquidate the Company or to cease operations, or has no realistic alternative but to do so. The Management Board should disclose events and circumstances that may cast significant doubt on the Company's ability to continue as a going concern in the consolidated financial statements.

Our responsibilities for the audit of the consolidated financial statements

Our objective is to plan and perform the audit engagement in a manner that allows us to obtain sufficient and appropriate audit evidence for our opinion.

Our audit has been performed with a high, but not absolute, level of assurance, which means we may not have detected all material errors and fraud during our audit.

Misstatements can arise from fraud or errors and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of the consolidated financial statements. The materiality affects the nature, timing and extent of our audit procedures and the evaluation of the effect of identified misstatements on our opinion.

We have exercised professional judgment and have maintained professional scepticism throughout the audit, in accordance with Dutch Standards on Auditing, ethical requirements and independence requirements. Our audit included among others:

- identifying and assessing the risks of material misstatement of the consolidated financial statements, whether due to errors or fraud, designing and performing audit procedures responsive to those risks, and obtaining audit evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from errors, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control;
- obtaining an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control;
- evaluating the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by the Management Board;
- concluding on the appropriateness of management's use of the going concern basis of accounting and based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the Company's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditor's report to the related disclosures in the consolidated financial statements or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditor's report. However, future events or conditions may cause the company ceasing to continue as a going concern;
- evaluating the overall presentation, structure and content of the consolidated financial statements, including the disclosures; and

- evaluating whether the consolidated financial statements represent the underlying transactions and events in a manner that achieves fair presentation.

We are solely responsible for the opinion and therefore responsible to obtain sufficient appropriate audit evidence regarding the financial information of the entities or business activities within the group to express an opinion on the financial statements. In this respect we are also responsible for directing, supervising and performing the group audit.

We communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant findings in internal control that we identify during our audit.

Amstelveen, 6 March 2023
KPMG Accountants N.V.
C.A. Bakker RA

VODAFONEZIGGO GROUP B.V.
CONSOLIDATED BALANCE SHEETS

	December 31,	
	2022	2021
	in millions	
ASSETS		
Current assets:		
Cash and cash equivalents	€ 93.6	€ 244.9
Trade receivables, net	154.9	164.3
Related-party receivables (note 11)	47.4	47.1
Prepaid expenses	40.8	28.2
Derivative instruments (note 5)	170.1	56.7
Contract assets (note 4)	152.6	152.4
Other current assets, net (note 4)	102.1	93.4
Total current assets	761.5	787.0
Property and equipment, net (notes 7 and 9)	4,780.1	4,754.4
Goodwill (note 7)	7,375.5	7,375.5
Intangible assets subject to amortization, net (note 7)	4,505.9	5,127.9
Long-term derivative instruments (note 5)	968.9	162.0
Long-term contract assets (note 4)	58.1	58.8
Other assets, net (notes 4 and 9)	421.2	429.8
Total assets	€ 18,871.2	€ 18,695.4

The accompanying notes are an integral part of these consolidated financial statements.

VODAFONEZIGGO GROUP B.V.
CONSOLIDATED BALANCE SHEETS — (Continued)

	December 31,	
	2022	2021
in millions		
LIABILITIES AND OWNER'S EQUITY		
Current liabilities:		
Accounts payable (note 11)	€ 453.8	€ 367.7
Accrued and other current liabilities (notes 7, 9 and 11):	347.1	352.7
Deferred revenue and advance payments from subscribers and others (note 4)	205.8	210.3
VAT payable	126.6	133.1
Accrued income taxes (note 10)	108.8	61.7
Derivative instruments (note 5)	41.4	70.1
Accrued interest (note 8)	148.3	136.3
Current portion of third-party debt and finance lease obligations (notes 8 and 9):	1,107.0	1,078.1
Total current liabilities	2,538.8	2,410.0
Long-term debt and finance lease obligations (notes 8 and 9):		
Third-party	10,218.0	9,857.4
Related-party (note 11)	1,815.8	1,815.8
Deferred income taxes (note 10)	1,227.1	1,173.1
Other long-term liabilities (notes 4, 5, 9 and 11)	419.4	661.2
Total liabilities	16,219.1	15,917.5
Commitments and contingencies (notes 5, 11 and 12)		
Total owner's equity		
Total liabilities and owner's equity	2,652.1	2,777.9
	€ 18,871.2	€ 18,695.4

The accompanying notes are an integral part of these consolidated financial statements.

VODAFONEZIGGO GROUP B.V.
CONSOLIDATED STATEMENTS OF OPERATIONS

	Year ended December 31,		
	2022	2021	2020
	in millions		
Revenue (notes 4, 11 and 13)	€ 4,065.6	€ 4,076.9	€ 4,000.2
Operating costs and expenses (exclusive of depreciation and amortization, shown separately below):			
Programming and other direct costs of services (note 11)	841.3	864.5	832.9
Other operating	465.5	468.8	471.3
Selling, general and administrative (SG&A) (note 11)	629.7	614.4	594.6
Charges for JV Services (note 11)	214.3	215.0	224.8
Depreciation and amortization	1,528.4	1,580.3	1,639.7
Impairment, restructuring and other operating items, net (note 11)	12.5	37.0	(11.7)
	<u>3,691.7</u>	<u>3,780.0</u>	<u>3,751.6</u>
Operating income	<u>373.9</u>	<u>296.9</u>	<u>248.6</u>
Non-operating income (expense):			
Interest expense:			
Third-party	(473.3)	(415.8)	(440.5)
Related-party (note 11)	(102.2)	(95.5)	(84.0)
Realized and unrealized gains (losses) on derivative instruments, net (note 5)	1,189.6	524.8	(387.8)
Foreign currency transaction gains (losses), net	(344.7)	(380.1)	453.8
Losses on debt extinguishment, net (note 8)	(71.1)	(7.6)	(41.9)
Other income, net	4.9	0.6	0.2
	<u>203.2</u>	<u>(373.6)</u>	<u>(500.2)</u>
Earnings (loss) before income taxes	<u>577.1</u>	<u>(76.7)</u>	<u>(251.6)</u>
Income tax expense (note 10)	<u>(202.7)</u>	<u>(61.1)</u>	<u>(141.5)</u>
Net earnings (loss)	<u>€ 374.4</u>	<u>€ (137.8)</u>	<u>€ (393.1)</u>

The accompanying notes are an integral part of these consolidated financial statements.

VODAFONEZIGGO GROUP B.V.
CONSOLIDATED STATEMENT OF OWNER'S EQUITY

	Share capital	Additional Paid in Capital	Accumulated Surplus / (Deficit)	Total
	in millions			
Balance at January 1, 2020, before effect of accounting change	0.01	4,662.8	(406.0)	4,256.8
Impact of ASU No. 2016-13 (note 2).....	—	—	(0.8)	(0.8)
Balance at January 1, 2020 as adjusted for accounting change.....	0.01	4,662.8	(406.8)	4,256.0
Net loss.....	—	—	(393.1)	(393.1)
Distributions to VodafoneZiggo Group Holding (note 11).....	—	(417.0)	—	(417.0)
Share-based compensation (note 11).....	—	0.3	—	0.3
Other.....	—	(0.9)	—	(0.9)
Balance at December 31, 2020.....	0.01	4,245.2	(799.9)	3,445.3
Net loss.....	—	—	(137.8)	(137.8)
Distributions to VodafoneZiggo Group Holding (note 11).....	—	(530.0)	—	(530.0)
Share-based compensation (note 11).....	—	0.5	—	0.5
Other.....	—	(0.1)	—	(0.1)
Balance at December 31, 2021.....	0.01	3,715.6	(937.7)	2,777.9
Net earnings.....	—	—	374.4	374.4
Distributions to VodafoneZiggo Group Holding (note 11).....	—	(500.0)	—	(500.0)
Other.....	—	(0.2)	—	(0.2)
Balance at December 31, 2022.....	€ 0.01	€ 3,215.4	€ (563.3)	€ 2,652.1

The accompanying notes are an integral part of these consolidated financial statements.

VODAFONEZIGGO GROUP B.V.
CONSOLIDATED STATEMENTS OF CASH FLOWS

	Year ended December 31,		
	2022	2021	2020
	in millions		
Cash flows from operating activities:			
Net earnings (loss)	€ 374.4	€ (137.8)	€ (393.1)
Adjustments to reconcile net loss to net cash provided by operating activities:			
Share-based compensation expense	—	0.5	0.3
Depreciation and amortization	1,528.4	1,580.3	1,639.7
Impairment, restructuring and other operating items, net	12.5	37.0	(11.7)
Amortization of debt premiums, deferred financing costs and other non-cash interest	6.6	8.2	8.9
Realized and unrealized losses (gains) on derivative instruments, net	(1,189.6)	(524.8)	387.8
Foreign currency transaction losses (gains), net	344.7	380.1	(453.8)
Losses on extinguishment of debt, net	71.1	7.6	41.9
Deferred income tax expense (benefit)	54.0	(0.7)	141.5
Changes in operating assets and liabilities	184.4	90.7	14.2
Net cash provided by operating activities	<u>1,386.5</u>	<u>1,441.1</u>	<u>1,375.7</u>
Cash flows from investing activities:			
Capital expenditures	(491.1)	(298.1)	(288.5)
Cash paid for spectrum licenses	—	(207.9)	(207.9)
Other investing activities, net	1.8	0.3	2.8
Net cash used by investing activities	<u>€ (489.3)</u>	<u>€ (505.7)</u>	<u>€ (493.6)</u>

The accompanying notes are an integral part of these consolidated financial statements.

VODAFONEZIGGO GROUP B.V.
CONSOLIDATED STATEMENTS OF CASH FLOWS — (Continued)

	Year ended December 31,		
	2022	2021	2020
	in millions		
Cash flows from financing activities:			
Borrowings of third-party debt	€ 186.4	€ 50.5	€ 2,751.0
Operating-related vendor financing additions	733.6	698.4	685.7
Related-party borrowings, net	—	207.9	207.9
Repayments of third-party debt and finance lease obligations:			
Debt (excluding vendor financing)	(145.0)	(166.8)	(2,728.6)
Principal payments on operating-related vendor financing	(715.8)	(695.4)	(646.6)
Principal payments on capital-related vendor financing	(532.4)	(545.8)	(567.3)
Principal payments on finance leases	(8.2)	(9.0)	(10.1)
Distributions to VodafoneZiggo Group Holding	(500.0)	(530.0)	(417.0)
Receipt (payment) of financing costs and debt premiums	(65.3)	0.8	(64.0)
Other financing activities, net	0.8	(1.0)	(0.5)
Net cash used by financing activities	(1,045.9)	(990.4)	(789.5)
Effect of exchange rate changes on cash and cash equivalents and restricted cash			
	1.3	0.2	2.4
Net increase (decrease) in cash and cash equivalents and restricted cash	(147.4)	(54.8)	95.0
Cash and cash equivalents and restricted cash:			
Beginning of year	247.3	302.1	207.1
End of year	€ 99.9	€ 247.3	€ 302.1
Cash paid for interest:			
Cash paid for third-party interest	€ 462.1	€ 413.8	€ 426.2
Cash paid for related-party interest	102.2	95.5	84.0
Total	€ 564.3	€ 509.3	€ 510.2
Cash paid for income taxes	€ 101.6	€ —	€ —
Details of end of period cash and cash equivalents and restricted cash:			
Cash and cash equivalents	€ 93.6	€ 244.9	€ 300.9
Restricted cash (included in other current assets)	6.3	2.4	1.2
Total cash and cash equivalents and restricted cash	€ 99.9	€ 247.3	€ 302.1

The accompanying notes are an integral part of these consolidated financial statements.

VODAFONEZIGGO GROUP B.V.
Notes to Consolidated Financial Statements — (Continued)
December 31, 2022, 2021 and 2020

(1) Basis of Presentation

VodafoneZiggo Group B.V. (**VodafoneZiggo**) provides fixed, mobile and integrated communication and entertainment services to consumers and businesses in the Netherlands. In these notes, the terms “we,” “our,” “our company”, and “us” may refer, as the context requires, to VodafoneZiggo or collectively to VodafoneZiggo and its subsidiaries.

On February 15, 2016, Liberty Global Europe Holding B.V., a corporation organized under the laws of the Netherlands and a wholly-owned subsidiary of Liberty Global plc (**Liberty Global**), and Vodafone International Holdings B.V., a corporation organized under the laws of the Netherlands and a wholly-owned subsidiary of Vodafone Group Plc (**Vodafone**) agreed to form a 50:50 joint venture (the **VodafoneZiggo JV**), pursuant to a Contribution and Transfer Agreement. On December 31, 2016, the formation of the VodafoneZiggo JV was completed (the **JV Transaction**) pursuant to which (i) VodafoneZiggo Group Holding B.V. (**VodafoneZiggo Group Holding**) became 50% owned by each of Liberty Global and Vodafone (each a **Shareholder**), (ii) VodafoneZiggo and its subsidiaries were contributed into the VodafoneZiggo JV and became wholly-owned by VodafoneZiggo Group Holding, and (iii) Vodafone NL and its subsidiaries were contributed into the VodafoneZiggo JV and became wholly-owned by VodafoneZiggo.

These consolidated financial statements have been prepared in accordance with accounting principles generally applied in the United States (**GAAP**). Our functional currency is the euro (€). Unless otherwise indicated, convenience translations into euros are calculated as of December 31, 2022.

These consolidated financial statements reflect our consideration of the accounting and disclosure implications of subsequent events through March 6, 2023, the date of issuance.

(2) Accounting Changes and Recent Accounting Pronouncements

Accounting Changes

ASU 2016-13

In June 2016, the Financial Accounting Standards Board (**FASB**) issued Accounting Standards Update (**ASU**) No 2016-13, *Measurement of Credit Losses on Financial Statements (ASU 2016-13)*, which changes the recognition model for credit losses related to assets held at amortized cost. ASU 2016-13 eliminates the threshold that a loss must be considered probable to recognize a credit loss and instead requires an entity to reflect its current estimate of lifetime expected credit losses. We adopted ASU 2016-13 on January 1, 2020 on a modified retrospective basis by recording a cumulative effect adjustment of €0.8 million to our owner’s equity related to the net increase to our allowances for certain trade receivables and contract assets.

Recent Accounting Pronouncements

ASU 2022-04

In September 2022, the FASB issued ASU No. 2022-04, *Liabilities—Supplier Finance Programs (ASU 2022-04)*, which requires additional disclosures for buyers participating in supplier financing programs, which we refer to as vendor financing, including (1) the key terms of the arrangement, (2) the confirmed amount outstanding at the end of the period, (3) the balance sheet presentation of related amounts and (4) a reconciliation of the balances from period to period. ASU 2022-04 is effective for annual reporting periods beginning after December 15, 2022, including interim periods within those fiscal years, with early adoption permitted. We do not expect ASU 2022-04 to have a significant impact on our consolidated financial statements. For additional information regarding our vendor financing obligations, see note 8.

ASU 2020-04

In April 2020, the FASB issued ASU No. 2020-04, *Facilitation of the Effects of Reference Rate Reform on Financial Reporting (ASU 2020-04)*, which provides optional expedients and exceptions for contract modifications, subject to meeting certain criteria, that reference the London Interbank Offered Rate (**LIBOR**) or another reference rate expected to be discontinued. In accordance with the optional expedients in ASU 2020-04, we expect to modify certain of our debt agreements during 2023 to replace LIBOR with another reference rate and apply the practical expedient to account for the modification as a

VODAFONEZIGGO GROUP B.V.
Notes to Consolidated Financial Statements — (Continued)
December 31, 2022, 2021 and 2020

continuation of the existing contract. We currently do not believe the use of optional expedients in ASU 2020-04 will have a significant impact on our consolidated financial statements. For additional information regarding our debt, see note 8.

(3) Summary of Significant Accounting Policies

Estimates

The preparation of financial statements in conformity with GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities at the date of the financial statements and the reported amounts of revenue and expenses during the reporting period. Estimates and assumptions are used in accounting for, among other things, the valuation of allowances for uncollectible accounts, certain components of revenue, programming and copyright expenses, deferred income taxes and related valuation allowances, loss contingencies, fair value measurements, impairment assessments, capitalization of internal costs associated with construction and installation activities and the development of internal-use software and useful lives of long-lived assets. Actual results could differ from those estimates.

Reclassifications

Certain prior year amounts have been reclassified to conform to the current year presentation.

Principles of Consolidation

The accompanying consolidated financial statements include our accounts and the accounts of all voting interest entities where we exercise a controlling financial interest through the ownership of a direct or indirect controlling voting interest and variable interest entities for which our company is the primary beneficiary. All significant intercompany accounts and transactions have been eliminated in consolidation.

Cash and Cash Equivalents and Restricted Cash

Cash equivalents consist of money market funds and other investments that are readily convertible into cash and have maturities of three months or less at the time of acquisition. We record money market funds at the net asset value as there are no restrictions on our ability, contractual or otherwise, to redeem our investments at the stated net asset value.

Restricted cash consists of cash held in restricted accounts, including cash held as collateral for debt and other compensating balances. Restricted cash amounts that are required to be used to purchase long-term assets or repay long-term debt are classified as long-term assets. All other cash that is restricted to a specific use is classified as current or long-term based on the expected timing of the disbursement.

Our significant non-cash investing and financing activities are disclosed in notes 5, 7, 8 and 9 to our consolidated financial statements.

Cash Flow Statement

For purposes of determining the classification of cash flows in our consolidated statements of cash flows, interest payments or receipts for related-party loans are included as cash flows from operating activities. Interest-bearing cash advances to related parties and repayments thereof are classified as investing activities. All other related-party borrowings, advances, and repayments are reflected as financing activities.

For purposes of our consolidated statements of cash flows, operating-related expenses financed by an intermediary are treated as constructive operating cash outflows and constructive financing cash inflows when the intermediary settles the liability with the vendor on our behalf as there is no actual cash outflow until we pay the financing intermediary. When we pay the financing intermediary, we record financing cash outflows in our consolidated statements of cash flows. The capital expenditures that we report in our consolidated statements of cash flows do not include amounts that are financed under capital-related vendor financing or finance lease arrangements. Instead, these amounts are reflected as non-cash additions to our property and equipment when the underlying assets are delivered, and as repayments of debt when the principal is repaid.

VODAFONEZIGGO GROUP B.V.
Notes to Consolidated Financial Statements — (Continued)
December 31, 2022, 2021 and 2020

Trade Receivables

Our trade receivables are reported net of an allowance for doubtful accounts. Such allowance aggregated €23.8 million and €28.7 million at December 31, 2022 and 2021, respectively. The allowance for doubtful accounts is based upon our current estimate of lifetime expected credit losses related to uncollectible accounts receivable. We use a number of factors in determining the allowance, including, among other things, collection trends, prevailing and anticipated economic conditions, and specific customer credit risk. The allowance is maintained until either payment is received or the likelihood of collection is considered to be remote.

Concentration of credit risk with respect to trade receivables is limited due to the large number of residential and business customers. We also manage this risk by disconnecting services to customers whose accounts are delinquent.

Financial Instruments

Due to the short maturities of cash and cash equivalents, trade receivables, related-party receivables, contract assets, other current assets, accounts payable, accrued and other current liabilities, VAT payable and accrued interest, their respective carrying values approximate their respective fair values. For information concerning the fair values of certain of our derivatives and debt, see notes 5 and 8, respectively. For information regarding how we arrive at certain of our fair value measurements, see note 6.

Derivative Instruments

All derivative instruments are recorded on the balance sheet at fair value. We generally do not apply hedge accounting to our derivative instruments, therefore changes in the fair value of derivative instruments are recognized in earnings.

The net cash received or paid related to our derivative instruments is classified as an operating, investing or financing activity in our consolidated statements of cash flows based on the objective of the derivative instrument and the classification of the applicable underlying cash flows.

For additional information regarding our derivative instruments, see note 5.

Property and Equipment

Property and equipment are stated at cost less accumulated depreciation. We capitalize costs associated with the construction of new, or upgrades to existing, fixed and mobile transmission and distribution facilities, the installation of new fixed-line services and the development of internal-use software. Capitalized construction and installation costs include materials, labor, and other directly attributable costs. Installation activities that are capitalized include (i) the initial connection (or drop) from our fixed-line system to a customer location, (ii) the replacement of a drop, and (iii) the installation of equipment for new, or upgrades to existing fixed-line services. The costs of other customer-facing activities, such as reconnecting and disconnecting customer locations and repairing or maintaining drops, are expensed as incurred. Interest capitalized with respect to construction activities was not material during any of the periods presented.

Capitalized internal-use software is included as a component of property and equipment. We capitalize internal and external costs directly associated with the development of internal-use software. We also capitalize costs associated with the purchase of software licenses. Maintenance and training costs, as well as costs incurred during the preliminary stage of an internal-use software development project, are expensed as incurred.

Depreciation is computed using the straight-line method over the estimated useful life of the underlying asset. Equipment under finance leases is amortized on a straight-line basis over the shorter of the lease term or estimated useful life of the asset. Useful lives used to depreciate our property and equipment are assessed periodically and are adjusted when warranted. The useful lives of fixed and mobile distribution systems that are undergoing a rebuild are adjusted such that property and equipment to be retired will be fully depreciated by the time the rebuild is completed. For additional information regarding the useful lives of our property and equipment, see note 7.

VODAFONEZIGGO GROUP B.V.
Notes to Consolidated Financial Statements — (Continued)
December 31, 2022, 2021 and 2020

Additions, replacements, and improvements that extend the asset life are capitalized. Repairs and maintenance are charged to operations.

We recognize a liability for asset retirement obligations in the period in which it is incurred if sufficient information is available to make a reasonable estimate of fair values. Asset retirement obligations may arise from the loss of rights of way that we obtain from local municipalities or other relevant authorities. Under certain circumstances, the authorities could require us to remove our network equipment from an area if, for example, we were to discontinue using the equipment for an extended period of time or the authorities were to decide not to renew our access rights. However, because the rights of way are integral to our ability to deliver broadband communications services to our customers, we expect to conduct our business in a manner that will allow us to maintain these rights for the foreseeable future. In addition, we have no reason to believe that the authorities will not renew our rights of way and, historically, renewals have been granted. We also have obligations in lease agreements to restore the property to its original condition or remove our property at the end of the lease term. Sufficient information is not available to estimate the fair value of our asset retirement obligations in certain of our lease arrangements. This is the case for long-term lease arrangements in which the underlying leased property is integral to our operations, there is not an acceptable alternative to the leased property and we have the ability to indefinitely renew the lease. Accordingly, for most of our rights of way and certain lease agreements, the possibility is remote that we will incur significant removal costs in the foreseeable future and, as such, we do not have sufficient information to make a reasonable estimate of fair value for these asset retirement obligations.

As of December 31, 2022 and 2021, the recorded value of our asset retirement obligations was €21.9 million and €37.8 million, respectively.

Intangible Assets

Our primary intangible assets relate to goodwill, customer relationships and mobile spectrum licenses. Our goodwill represents the equity of the VodafoneZiggo JV contributed businesses in excess of the fair value of our net identifiable assets and liabilities and the excess purchase price over the fair value of the identifiable net assets acquired in a business combination. Customer relationships are initially recorded at their fair values in connection with business combinations and subsequently at cost less accumulated amortization and impairments, if any. Upon closing the JV Transaction, our licenses were recorded at their fair value and subsequent to the closing of the JV Transaction, we record licenses at costs less accumulated amortization and impairments, if any.

Goodwill is not amortized, but instead is tested for impairment at least annually. Intangible assets with finite lives are amortized on a straight-line basis over their respective estimated useful lives to their estimated residual values and reviewed for impairment.

For additional information regarding the useful lives of our intangible assets, see note 7.

Impairment of Property and Equipment and Intangible Assets

When circumstances warrant, we review the carrying amounts of our property and equipment and our intangible assets (other than goodwill) to determine whether such carrying amounts continue to be recoverable. Such changes in circumstance may include (i) an expectation of a sale or disposal of a long-lived asset or asset group, (ii) adverse changes in market or competitive conditions, (iii) an adverse change in legal factors or business climate in the market in which we operate, and (iv) operating or cash flow losses. For purposes of impairment testing, long-lived assets are grouped at the lowest level for which cash flows are largely independent of other assets and liabilities, generally at or below the reporting unit level (see below). If the carrying amount of the asset or asset group is greater than the expected undiscounted cash flows to be generated by such asset or asset group, an impairment adjustment is recognized. Such adjustment is measured by the amount that the carrying value of such asset or asset group exceeds its fair value. We generally measure fair value by considering (a) sale prices for similar assets, (b) discounted estimated future cash flows using an appropriate discount rate and/or (c) estimated replacement cost. Assets to be disposed of are recorded at the lower of their carrying amount or fair value less costs to sell.

We evaluate goodwill for impairment at least annually on October 1 and whenever facts and circumstances indicate that their carrying amounts may not be recoverable. For impairment evaluations with respect to goodwill, we first make a qualitative assessment to determine if the goodwill may be impaired. If it is more-likely-than-not that the reporting unit's fair value is less

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than its carrying value, we then compare the fair value of the reporting unit to its respective carrying amount. Any excess of the carrying amount over the fair value would be charged to operations as an impairment loss. A reporting unit is an operating segment or one level below an operating segment (referred to as a "component"). We have identified one reporting unit to which all goodwill is assigned.

Leases

For leases with a term greater than 12 months, we recognize on the lease commencement date (i) right-of-use (**ROU**) assets representing our right to use an underlying asset and (ii) lease liabilities representing our obligation to make lease payments over the lease term. Lease and non-lease components in a contract are generally accounted for separately.

We initially measure lease liabilities at the present value of the remaining lease payments over the lease term. Options to extend or terminate the lease are included only when it is reasonably certain that we will exercise that option. As our leases do not provide enough information to determine an implicit interest rate, we use a portfolio level incremental borrowing rate in our present value calculation. We initially measure ROU assets at the value of the lease liability, plus any initial direct costs and prepaid lease payments, less any lease incentives received.

With respect to our finance leases, (i) ROU assets are generally depreciated on a straight-line basis over the shorter of the lease term or the useful life of the asset and (ii) interest expense on the lease liability is recorded using the effective interest method. Operating lease expense is recognized on a straight-line basis over the lease term. For leases with a term of 12 months or less (short-term leases), we do not recognize ROU assets or lease liabilities. Short-term lease expense is recognized on a straight-line basis over the lease term.

Income Taxes

Income taxes are accounted for under the asset and liability method. We recognize deferred tax assets and liabilities for the future tax consequences attributable to differences between the financial statement carrying amounts and income tax basis of assets and liabilities, and the expected benefits of utilizing operating loss and tax credit carryforwards. We measure deferred tax assets and liabilities using enacted tax rates in effect for the year in which those temporary differences and carryforwards are expected to be recovered or settled. We recognize the financial statement effects of a tax position when it is more-likely-than-not, based on technical merits, that the position will be sustained upon examination. Recognized tax positions are measured as the largest amount of tax benefit that is greater than 50 percent likely of being realized upon settlement. Net deferred tax assets are then reduced by a valuation allowance to the amount we believe is more-likely-than-not to be realized. The effect on deferred tax assets and liabilities of a change in tax rates is recognized in earnings in the period that includes the enactment date. Interest and penalties related to income tax liabilities are included in income tax expense in our consolidated statements of operations.

The VodafoneZiggo Fiscal Unity, established on the level of VodafoneZiggo Group Holding, is one taxpayer for the period of time subsequent to the closing of the JV Transaction. The income taxes of VodafoneZiggo are recorded in our consolidated financial statements on a separate return basis. Current income taxes payable or receivable, if any, are presented as current positions with the tax authorities. VodafoneZiggo Group Holding did not implement a tax-sharing agreement and no cash payments will be made between VodafoneZiggo entities and VodafoneZiggo Group Holding related to the Dutch tax attributes. Accordingly, related-party tax allocations, if any, are reflected as adjustments in our consolidated statement of owner's equity.

For additional information regarding our income taxes, see note 10

Multiemployer Benefit Plans

We are a party to multiemployer benefit plans and we recognize the required contribution paid or payable for these plans during the period as net postretirement benefit costs.

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Foreign Currency Transactions

Transactions denominated in currencies other than our functional currency are recorded based on exchange rates at the time such transactions arise. Changes in exchange rates with respect to amounts recorded on our consolidated balance sheets related to these non-functional currency transactions result in transaction gains and losses that are reflected in our consolidated statements of operations as unrealized (based on the applicable period end exchange rates) or realized upon settlement of the transactions.

Revenue Recognition

Subscription Revenue — Fixed Networks. We recognize revenue from the provision of video, broadband internet and fixed-line telephony services over our fixed network to customers over time in the periods the related services are provided, with the exception of revenue recognized pursuant to certain contracts that contain promotional discounts, as described below. Installation fees related to services provided over our fixed network are generally deferred and recognized as revenue over the contractual period.

Sale of Multiple Products and Services. We sell video, broadband internet, fixed-line telephony and mobile services and handsets to our customers in bundled packages at a rate lower than if the customer purchased each product on a stand-alone basis. Revenue from bundled packages generally is allocated proportionally to the individual products or services based on the relative stand-alone selling price for each respective product or service.

Mobile Revenue — General. Consideration from mobile contracts is allocated to the airtime service component and the handset component based on the relative stand-alone selling prices of each component. Offers for handsets and airtime services in separate contracts entered into at the same time are accounted for as a single contract.

Mobile Revenue — Airtime Services. We recognize revenue from mobile services over time in the periods the related services are provided. Revenue from pre-pay customers is deferred prior to the commencement of services and recognized as the services are rendered or usage rights expire.

Mobile Revenue — Handset Revenue. Arrangement consideration allocated to handsets is recognized as revenue at the point in time in which the goods have been transferred to the customer. Mobile handset contracts that permit the customer to take control of the handset upfront and pay for the handset in installments over a contractual period may contain a significant financing component. For contracts with terms of one year or more, we recognize the significant financing component as revenue over the contractual period using the effective interest method.

B2B Fixed Revenue. We defer upfront installation and certain nonrecurring fees received on B2B contracts where we maintain ownership of the installed equipment. The deferred fees are amortized into revenue on a straight-line basis over the term of the arrangement or the expected period of performance.

Contract Costs. Incremental costs to obtain a contract with a customer, such as incremental sales commissions, are generally recognized as assets and amortized over the applicable period benefited, which generally is the contract life, to (i) SG&A expenses or (ii) in the case of commissions earned on devices sold through indirect channels, against service revenue. If, however, the amortization period is less than one year, we expense such costs in the period incurred.

Contract fulfillment costs are recognized as assets and amortized to other operating costs over the applicable period benefited, which is generally the substantive contract term for the related service contract. Installation activities are not considered to be contract fulfillment costs. Instead, installation costs are capitalized, where applicable, under existing industry guidance for cable entities.

Promotional Discounts. For subscriber promotions, such as discounted or free services during an introductory period, revenue is recognized uniformly over the contractual period if the contract has substantive termination penalties. For subscriber promotions offered for longer than an introductory period, we allocate discounts over the related performance obligations and the related period of delivery.

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Subscriber Advance Payments and Deposits. Payments received in advance for the services we provide are deferred and recognized as revenue when the associated services are provided.

Sales, Use, and Other Value-Added Taxes. Revenue is recorded net of applicable sales, use, and other value-added taxes.

For a summary of our revenue disaggregated by major category, see note 13.

Programming Costs

Programming costs include (i) agreements to distribute channels to our customers and (ii) sports rights.

Channel Distribution Agreements. Our channel distribution agreements are generally multi-year contracts for which we are charged either (i) variable rates based upon the number of subscribers or (ii) on a flat fee basis. Certain of our variable rate contracts require minimum guarantees. For contracts containing minimum guarantees, we accrue based on the greater of the minimum guarantee or the amount calculated off the actual number of subscribers. Programming costs under such arrangements are recorded in programming and other direct costs of services in our consolidated statement of operations during the period when the programming is available for viewing.

Sports Rights. Our sports rights agreements are generally multi-year contracts for which we are typically charged a flat fee per season. We typically pay for sports rights in advance of the respective season. The current and long-term portions of any payments made in advance of the respective season are recorded as other current assets and other assets, net, respectively, on our consolidated balance sheet and are amortized on a straight-line basis over the respective sporting season. Sports rights are regularly reviewed for impairment and held at the lower of unamortized cost or estimated net realizable value.

Litigation Costs

Legal fees and related litigation costs are expensed as incurred.

(4) Revenue Recognition and Related Costs

Contract Balances

If we transfer goods or services to a customer but do not have an unconditional right to payment, we record a contract asset. Contract assets typically arise from the delivery of a handset that is paid for over the duration of the contract period or the uniform recognition of introductory promotional discounts over the contract period. Our contract assets were €210.7 million and €211.2 million as of December 31, 2022 and 2021, respectively, and are reported net of an allowance for doubtful accounts. Such allowance aggregated €5.5 million and €4.4 million at December 31, 2022 and 2021, respectively.

We record deferred revenue when we receive payment prior to transferring goods or services to a customer. We primarily defer revenue for (i) services that are invoiced prior to when services are provided and (ii) installation and other upfront services. Our deferred revenue balances were €208.3 million and €207.4 million as of December 31, 2022 and 2021, respectively. The current and long-term portions of our deferred revenue balances are included within deferred revenue and advance payment from subscribers and others and other long-term liabilities, respectively, on our consolidated balance sheets.

Contract Costs

Our aggregate assets associated with incremental costs to obtain and fulfill our contracts were €67.3 million and €69.0 million at December 31, 2022 and 2021, respectively. The current and long-term portions of our assets related to contract costs are included within other current assets, net and other assets, net, respectively, on our consolidated balance sheets. During 2022, 2021 and 2020, we amortized €80.8 million, €88.1 million and €99.5 million, respectively, to programming and other direct costs of service expenses and other operating expenses.

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Unsatisfied Performance Obligations

A large portion of our revenue is derived from customers whose initial contracts have been extended. A large portion of these customers have a one month notice period. Revenue from customers who are subject to initial contracts will be recognized over the term of such contracts, which is generally 12-24 months for our residential contracts and one to five years for our B2B service contracts.

(5) Derivative Instruments

In general, we enter into derivative instruments to protect against (i) increases in the interest rates on our variable-rate debt and (ii) foreign currency movements with respect to borrowings that are denominated in a currency other than our functional currency. In this regard, we have entered into various derivative instruments to manage interest rate exposure and foreign currency exposure with respect to the United States dollar (\$).

The following table provides details of the fair values of our derivative instrument assets and liabilities:

	December 31, 2022			December 31, 2021		
	Current	Long-term (a)	Total	Current	Long-term (a)	Total
	in millions					
Assets:						
Cross-currency and interest rate derivative contracts (b).....	€ 170.1	€ 968.9	€ 1,139.0	€ 56.5	€ 162.0	€ 218.5
Foreign currency forward contracts	—	—	—	0.2	—	0.2
Total	€ 170.1	€ 968.9	€ 1,139.0	€ 56.7	€ 162.0	€ 218.7
Liabilities:						
Cross-currency and interest rate derivative contracts (b).....	€ 41.2	€ 67.0	€ 108.2	€ 70.0	€ 263.6	€ 333.6
Foreign currency forward contracts	0.2	—	0.2	0.1	—	0.1
Total	€ 41.4	€ 67.0	€ 108.4	€ 70.1	€ 263.6	€ 333.7

- (a) Our long-term derivative liabilities are included in other long-term liabilities on our consolidated balance sheets.
- (b) We consider credit risk relating to our and our counterparties' nonperformance in the fair value assessment of our derivative instruments. In all cases, the adjustments take into account offsetting liability or asset positions. The changes in the credit risk valuation adjustments associated with our cross-currency and interest rate derivative contracts resulted in net gains (losses) of (€36.8 million), (€65.4 million) and €67.5 million during 2022, 2021 and 2020, respectively. These amounts are included in realized and unrealized gains (losses) on derivative instruments, net, in our consolidated statements of operations. For further information regarding our fair value measurements, see note 6.

The details of our realized and unrealized gains (losses) on derivative instruments, net, are as follows:

	Year ended December 31,		
	2022	2021	2020
	in millions		
Cross-currency and interest rate derivative contracts	€ 1,189.3	€ 524.4	€ (386.9)
Foreign currency forward contracts	0.3	0.4	(0.9)
Total	€ 1,189.6	€ 524.8	€ (387.8)

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The net cash received or paid related to our derivative instruments is classified as an operating, investing or financing activity in our consolidated statements of cash flows based on the objective of the derivative instrument and the classification of the applicable underlying cash flows. For derivative contracts that are terminated prior to maturity, the cash paid or received upon termination that relates to future periods is classified as a financing activity. The classification of these net cash inflows (outflows) is as follows:

	Year ended December 31,		
	2022	2021	2020
	in millions		
Operating activities.....	€ 42.2	€ (23.5)	€ 5.9
Financing activities.....	1.8	(0.1)	0.2
Total.....	€ 44.0	€ (23.6)	€ 6.1

Counterparty Credit Risk

We are exposed to the risk that the counterparties to our derivative instruments will default on their obligations to us. We manage these credit risks through the evaluation and monitoring of the creditworthiness of and concentration of risk with the respective counterparties. In this regard, credit risk associated with our derivative instruments is spread across a relatively broad counterparty base of banks and financial institutions, however notwithstanding, given the size of our derivative portfolio, the default of certain counterparties could have a significant impact on our consolidated statements of operations. Collateral is generally not posted by either party under our derivative instruments. At December 31, 2022, our exposure to counterparty credit risk included derivative assets with an aggregate fair value of €1.0 billion.

We have entered into derivative instruments under master agreements with each counterparty that contain master netting arrangements that are applicable in the event of early termination by either party to such derivative instrument. The master netting arrangements under each of these master agreements are limited to the derivative instruments governed by the relevant master agreement and are independent of similar arrangements.

Under our derivative contracts, it is generally only the non-defaulting party that has a contractual option to exercise early termination rights upon the default of the other counterparty and to set off other liabilities against sums due upon such termination. However, in an insolvency of a derivative counterparty, under the laws of certain jurisdictions, the defaulting counterparty or its insolvency representatives may be able to compel the termination of one or more derivative contracts and trigger early termination payment liabilities payable by us, reflecting any mark-to-market value of the contracts for the counterparty. Alternatively, or in addition, the insolvency laws of certain jurisdictions may require the mandatory set off of amounts due under such derivative contracts against present and future liabilities owed to us under other contracts between us and the relevant counterparty. Accordingly, it is possible that we may be subject to obligations to make payments, or may have present or future liabilities owed to us partially or fully discharged by set off as a result of such obligations, in the event of the insolvency of a derivative counterparty, even though it is the counterparty that is in default and not us. To the extent that we are required to make such payments, our ability to do so will depend on our liquidity and capital resources at the time. In an insolvency of a defaulting counterparty, we will be an unsecured creditor in respect of any amount owed to us by the defaulting counterparty, except to the extent of the value of any collateral we have obtained from that counterparty.

In addition, where a counterparty is in financial difficulty, under the laws of certain jurisdictions, the relevant regulators may be able to (i) compel the termination of one or more derivative instruments, determine the settlement amount and/or compel, without any payment, the partial or full discharge of liabilities arising from such early termination that are payable by the relevant counterparty or (ii) transfer the derivative instruments to an alternative counterparty.

Details of our Derivative Instruments

In the following tables, we present the details of the various categories of our derivative instruments. The notional amounts of multiple derivative instruments that mature within the same calendar month are shown in the aggregate and interest rates are presented on a weighted average basis. In addition, for derivative instruments that were in effect as of December 31, 2022, we present a single date that represents the applicable final maturity date. For derivative instruments that become effective

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subsequent to December 31, 2022, we present a range of dates that represents the period covered by the applicable derivative instruments.

Cross-currency Derivative Contracts

As noted above, we are exposed to foreign currency exchange rate risk in situations where our debt is denominated in a currency other than our functional currency. Although we generally seek to match the denomination of our borrowings with our functional currency, market conditions or other factors may cause us to enter into borrowing arrangements that are not denominated in our functional currency (unmatched debt). Our policy is generally to provide for an economic hedge against foreign currency exchange rate movements by using derivative instruments to synthetically convert unmatched debt into the applicable underlying currency. At December 31, 2022, substantially all of our debt was either directly or synthetically matched to our functional currency. The weighted average remaining contractual life of our cross-currency derivative contracts at December 31, 2022 was 4.3 years.

The terms of our outstanding cross-currency derivative contracts at December 31, 2022, are as follows:

Final maturity date	Notional amount due from counterparty	Notional amount due to counterparty	Interest rate due from counterparty	Interest rate due to counterparty
in millions				
January 2025 (a)	\$ 2,230.0	€ 1,985.9	4.03%	2.95%
April 2028	\$ 2,050.0	€ 1,581.0	6 mo. LIBOR + 2.50%	3.82%
January 2030	\$ 1,525.0	€ 1,356.9	5.00%	3.57%
January 2025 (a)	€ 872.2	\$ 980.0	0.31%	0.33%
January 2028	\$ 500.0	€ 450.0	4.88%	6 mo. EURIBOR + 3.04%
February 2028	\$ 500.0	€ 429.9	5.13%	3.64%
January 2028	\$ 491.0	€ 406.8	4.88%	3.85%
April 2028	\$ 475.0	€ 431.4	6 mo. LIBOR + 2.50%	6 mo. EURIBOR + 2.58%
April 2025	\$ 325.0	€ 302.8	6 mo. LIBOR + 2.50%	6 mo. EURIBOR + 2.42%

- (a) Includes certain derivative instruments that do not involve the exchange of notional amounts at the inception and maturity of the instruments. Accordingly, the only cash flows associated with these derivative instruments are interest-related payments and receipts. At December 31, 2022, the total euro equivalent of the notional amounts of these derivative instruments was €1,455.7 million.

Interest Rate Swap Contracts

As noted above, we enter into interest rate swap contracts to protect against increases in the interest rates on our variable-rate debt. Pursuant to these derivative instruments, we typically pay fixed interest rates and receive variable interest rates on specified notional amounts. At December 31, 2022, the related weighted average remaining contractual life of our interest rate swap contracts was 5.8 years.

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The terms of our outstanding interest rate swap contracts at December 31, 2022, are as follows:

Final maturity date	Notional amount	Interest rate due from counterparty	Interest rate due to counterparty
in millions			
January 2029 (a)	€ 2,250.0	6 mo. EURIBOR	1.20%
January 2028	450.0	6 mo. EURIBOR	0.03%
April 2028	431.4	6 mo. EURIBOR	1.59%
April 2025	11.0	6 mo. EURIBOR	2.71%
	€ 3,142.4		

(a) Includes amounts subject to a 0.0% floor.

Basis Swaps

Our basis swaps involve the exchange of attributes used to calculate our floating interest rates, including (i) the benchmark rate, (ii) the underlying currency, and/or (iii) the borrowing period. We typically enter into these swaps to optimize our interest rate profile based on our current evaluations of yield curves, our risk management policies and other factors. At December 31, 2022, the euro equivalent of the notional amount due from the counterparty was €2,357.5 million and the related weighted average remaining contractual life of our interest basis swap contracts was 0.8 years.

The terms of our outstanding basis swap contracts at December 31, 2022, are as follows:

Final maturity date	Notional amount	Interest rate due from counterparty	Interest rate due to counterparty
in millions			
October 2023 (a)	\$ 2,525.0	1 mo. LIBOR + 2.50%	6 mo. LIBOR + 2.41%

(a) Includes amounts subject to a 0.0% floor.

Interest Rate Options

From time to time, we enter into interest rate cap, floor and collar agreements. Purchased interest rate caps and collars lock in a maximum interest rate if variable rates rise, but also allow our company to benefit, to a limited extent in the case of collars, from declines in market rates. Purchased interest rate floors protect us from interest rates falling below a certain level, generally to match a floating rate floor on a debt instrument. At December 31, 2022, we had no interest rate collar agreements, and the euro equivalent of notional amounts of our interest rate caps and floors were €205.0 million and €4,607.5 million, respectively.

Impact of Derivative Instruments on Borrowing Costs

The impact of the derivative instruments that mitigate our foreign currency and interest rate risk, as described above, was a decrease of 171 basis points to our borrowing costs as of December 31, 2022.

Foreign Currency Forwards

We enter into foreign currency forward contracts with respect to non-functional currency exposure. At December 31, 2022, the euro equivalent of the notional amount of our foreign currency forward contracts was €10.0 million.

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(6) Fair Value Measurements

We use the fair value method to account for our derivative instruments. The reported fair values of these derivative instruments as of December 31, 2022, likely will not represent the value that will be paid or received upon the ultimate settlement or disposition of these assets and liabilities.

GAAP provides for a fair value hierarchy that prioritizes the inputs to valuation techniques used to measure fair value into three broad levels. Level 1 inputs are quoted market prices in active markets for identical assets or liabilities that the reporting entity has the ability to access at the measurement date. Level 2 inputs are inputs other than quoted market prices included within Level 1 that are observable for the asset or liability, either directly or indirectly. Level 3 inputs are unobservable inputs for the asset or liability. We record transfers of assets or liabilities into or out of Levels 1, 2 or 3 at the beginning of the quarter during which the transfer occurred. During 2022, no such transfers were made.

All of our Level 2 inputs (interest rate futures and swap rates) and certain of our Level 3 inputs (credit spreads) are obtained from pricing services. These inputs, or interpolations or extrapolations thereof, are used in our internal models to calculate, among other items, yield curves and forward interest and currency rates. In the normal course of business, we receive market value assessments from the counterparties to our derivative contracts. Although we compare these assessments to our internal valuations and investigate unexpected differences, we do not otherwise rely on counterparty quotes to determine the fair values of our derivative instruments. The midpoints of applicable bid and ask ranges generally are used as inputs for our internal valuations.

In order to manage our interest rate and foreign currency exchange risk, we have entered into various derivative instruments as further described in note 5. The recurring fair value measurements of these instruments are determined using discounted cash flow models. Most of the inputs to these discounted cash flow models consist of, or are derived from, observable Level 2 data for substantially the full term of these instruments. This observable data mostly includes interest rate futures and swap rates, which are retrieved or derived from available market data. Although we may extrapolate or interpolate this data, we do not otherwise alter this data in performing our valuations. We use a Monte Carlo based approach to incorporate a credit risk valuation adjustment in our fair value measurements to estimate the impact of both our own nonperformance risk and the nonperformance risk of our counterparties. Our and our counterparties' credit spreads represent our most significant Level 3 inputs, and these inputs are used to derive the credit risk valuation adjustments with respect to these instruments. As we would not expect changes in our or our counterparties' credit spreads to have a significant impact on the valuations of these instruments, we have determined that these valuations fall under Level 2 of the fair value hierarchy. Our credit risk valuation adjustments with respect to our cross-currency and interest rate swaps are quantified and further explained in note 5.

Fair value measurements are also used in connection with nonrecurring valuations performed in connection with impairment assessments and acquisition accounting. During 2022 and 2021, we did not perform significant nonrecurring fair value measurements.

A summary of our assets and liabilities that are measured at fair value on a recurring basis is as follows:

	December 31,	December 31,
	2022 (a)	2021 (a)
	in millions	
Assets:		
Cross-currency and interest rate derivative contracts	€ 1,139.0	€ 218.5
Foreign currency forward contracts	—	0.2
Total	€ 1,139.0	€ 218.7
Liabilities:		
Cross-currency and interest rate derivative contracts	€ 108.2	€ 333.6
Foreign currency forward contracts	0.2	0.1
Total	€ 108.4	€ 333.7

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- (a) At December 31, 2022 and 2021, we used significant other observable inputs (Level 2) to measure all of our fair value assets and liabilities.

(7) **Long-lived Assets**

Property and Equipment, Net

The details of our property and equipment and the related accumulated depreciation are set forth below:

	Estimated useful life at December 31, 2022	December 31,	
		2022	2021
in millions			
Distribution systems	4 to 30 years	€ 5,824.5	€ 5,699.3
Support equipment, buildings and land	3 to 40 years	1,071.7	1,484.5
Customer premises equipment	3 to 5 years	974.0	1,013.8
		7,870.2	8,197.6
Accumulated depreciation		(3,090.1)	(3,443.2)
Total property and equipment, net		€ 4,780.1	€ 4,754.4

Depreciation expense related to our property and equipment was €906.4 million, €958.3 million and €1,026.7 million during 2022, 2021 and 2020, respectively.

During 2022, 2021 and 2020, we recorded non-cash increases to our property and equipment related to vendor financing arrangements of €462.8 million, €500.2 million and €494.8 million, respectively, which exclude related VAT of €51.4 million, €42.4 million and €38.5 million, respectively, that was also financed by our vendors under these arrangements.

All of the support equipment, buildings and land is pledged as security under our various debt instruments. For additional information, see note 8.

During 2022, 2021 and 2020, we recorded impairment charges of €0.8 million, €2.5 million and €11.9 million, respectively. These amounts were primarily related to property and equipment.

Goodwill

Our goodwill represents the equity of the VodafoneZiggo JV contributed businesses in excess of the fair value of our net identifiable assets and liabilities. There was no change in the carrying amount of our goodwill during 2022 and 2021.

If, among other factors, the adverse impact of economic competitive, regulatory or other factors were to cause our operations or cash flows to be worse than anticipated, or if our weighted average cost of capital increases, we could conclude in future periods that impairment charges are required in order to reduce the carrying values of our goodwill, and, to a lesser extent, other long-lived assets. Any such impairment charges could be significant.

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Intangible Assets Subject to Amortization, Net

The details of our intangible assets subject to amortization are set forth below:

	Estimated useful life at December 31, 2022	December 31, 2022			December 31, 2021		
		Gross carrying amount	Accumulated amortization	Net carrying amount	Gross carrying amount	Accumulated amortization	Net carrying amount
in millions							
Customer relationships	7 to 22 years	€ 6,420.0	€ (3,059.4)	€ 3,360.6	€ 6,420.0	€ (2,549.5)	€ 3,870.5
Licenses	17 to 20 years	1,470.9	(530.8)	940.1	1,470.9	(429.5)	1,041.4
Trade name	25 years	270.0	(64.8)	205.2	270.0	(54.0)	216.0
Total		<u>€ 8,160.9</u>	<u>€ (3,655.0)</u>	<u>€ 4,505.9</u>	<u>€ 8,160.9</u>	<u>€ (3,033.0)</u>	<u>€ 5,127.9</u>

Amortization expense related to intangible assets with finite useful lives was €622.0 million, €622.0 million and €613.0 million during 2022, 2021 and 2020, respectively. Based on our amortizable intangible asset balances at December 31, 2022, we expect that amortization expense will be as follows for the next five years and thereafter (in millions):

2023	€ 622.2
2024	613.6
2025	613.6
2026	290.3
2027	255.3
Thereafter	2,110.9
Total	<u>€ 4,505.9</u>

(8) Debt

The euro equivalents of the components of our third-party debt are as follows:

	December 31, 2022		Principal amount	
	Weighted average interest rate (a)	Unused borrowing capacity (b)	December 31, 2022	December 31, 2021
in millions				
Senior and Senior Secured Notes	4.44 %	—	€ 5,551.9	€ 5,286.0
Credit Facilities (b) (c)	6.29 %	€ 800.0	4,625.1	4,509.4
Vendor financing (d)	2.67 %	—	999.5	999.7
Other Debt	2.73 %	—	168.4	166.5
Total principal amount of third-party debt before premiums, discounts and deferred financing costs (e)	<u>5.01 %</u>	<u>€ 800.0</u>	<u>€ 11,344.9</u>	<u>€ 10,961.6</u>

- (a) Represents the weighted average interest rate in effect at December 31, 2022 for all borrowings outstanding pursuant to each debt instrument, including any applicable margin. The interest rates presented represent stated rates and do not include the impact of derivative instruments, deferred financing costs, original issue premiums or discounts and commitment fees, all of which affect our overall cost of borrowing. Including the effects of derivative instruments, original issue premiums or discounts and commitment fees, but excluding the impact of deferred financing costs, the weighted average interest rate on our aggregate third-party variable- and fixed-rate indebtedness was 3.8% at December 31, 2022. For information regarding our derivative instruments, see note 5.

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- (b) The Credit Facilities include a revolving facility with a maximum borrowing capacity of €800.0 million, which was undrawn at December 31, 2022. Unused borrowing capacity represents the maximum availability under the Credit Facilities at December 31, 2022 without regard to covenant compliance calculations or other conditions precedent to borrowing. At December 31, 2022, based on the most restrictive applicable leverage covenants and leverage-based restricted payment tests, the full €800.0 million of unused borrowing capacity was available to be borrowed and there were no additional restrictions on our ability to make loans or distributions from this availability. Upon completion of the relevant December 31, 2022 compliance reporting requirements and based on the most restrictive applicable leverage covenants and leverage-based restricted payment tests, we expect that the full amount of unused borrowing capacity will continue to be available to be borrowed and that there will be no additional restrictions with respect to loans or distributions from this availability. Our above expectations do not consider any actual or potential changes in our borrowing levels or any amounts loaned or distributed subsequent to December 31, 2022, or the impact of additional amounts that may be available to borrow, loan or distribute under certain defined baskets under the Credit Facilities.
- (c) Principal amounts include €17.6 million and €41.9 million at December 31, 2022 and 2021, respectively, of borrowings pursuant to an excess cash facility under the Credit Facilities. These borrowings are owed to a non-consolidated special purpose financing entity that has issued notes to finance the purchase of receivables due from our company to certain other third parties for amounts that we and our subsidiaries have vendor financed. To the extent that the proceeds from these notes exceed the amount of vendor financed receivables available to be purchased, the excess proceeds are used to fund this excess cash facility.
- (d) Represents amounts owed to various creditors pursuant to interest-bearing vendor financing arrangements that are used to finance certain of our property and equipment additions and operating expenses. These arrangements extend our repayment terms beyond a vendor's original due dates (e.g. extension beyond a vendor's customary payment terms, which are generally 90 days or less) and as such are classified outside of accounts payable as debt on our consolidated balance sheets. These obligations are generally due within one year and include VAT that was also financed under these arrangements. For purposes of our consolidated statements of cash flows, operating-related expenses financed by an intermediary are treated as constructive operating cash outflows and constructive financing cash inflows when the intermediary settles the liability with the vendor as there is no actual cash outflow until we pay the financing intermediary. During 2022 and 2021, the constructive cash outflow included in cash flows from operating activities and the corresponding constructive cash inflow included in cash flows from financing activities related to these operating expenses was €733.6 million and €698.4 million, respectively. Repayments of vendor financing obligations at the time we pay the financing intermediary are included in repayments of third-party debt and finance lease obligations in our consolidated statements of cash flows.
- (e) As of December 31, 2022 and 2021, our debt had an estimated fair value of €10.1 billion and €11.0 billion, respectively. The estimated fair values of our debt instruments are generally determined using the average of applicable bid and ask prices (mostly Level 1 of the fair value hierarchy). For additional information regarding fair value hierarchies, see note 6.

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The following table provides a reconciliation of total third-party debt before premiums, discounts, and deferred financing costs to total debt and finance lease obligations:

	December 31,	
	2022	2021
	in millions	
Total principal amount of third-party debt before premiums, discounts and deferred financing costs	€ 11,344.9	€ 10,961.6
Premiums, discounts and deferred financing costs, net	(35.7)	(45.7)
Total carrying amount of third-party debt	11,309.2	10,915.9
Third-party finance lease obligations	15.8	19.6
Total third-party debt and finance lease obligations	11,325.0	10,935.5
Related-party debt (note 11)	1,815.8	1,815.8
Total debt and finance lease obligations	13,140.8	12,751.3
Current maturities of debt and finance lease obligations	(1,107.0)	(1,078.1)
Long-term debt and finance lease obligations	€ 12,033.8	€ 11,673.2

Credit Facilities. We have entered into a senior secured credit facility agreement with certain financial institutions and a senior credit facility agreement with a non-consolidated special purpose financing entity (as described under *Credit Facilities* below) (the **credit facilities**). Our credit facilities contain certain covenants, the more notable of which are as follows:

- Our credit facilities contain certain consolidated net leverage ratios, as specified in the relevant credit facility, which are required to be complied with (i) on an incurrence basis and/or (ii) in respect of our senior secured credit facilities, when the associated revolving credit facility has been drawn beyond a specified percentage of the total available revolving credit commitments on a maintenance basis;
- Subject to certain customary and agreed exceptions, our credit facilities contain certain restrictions which, among other things, restrict the ability of certain of our subsidiaries to (i) incur or guarantee certain financial indebtedness, (ii) make certain disposals and acquisitions, (iii) create certain security interests over their assets, and (iv) make certain restricted payments to their direct and/or indirect parent companies through dividends, loans or other distributions;
- Our credit facilities require that certain of our subsidiaries (i) guarantee the payment of all sums payable under the relevant credit facility and (ii) in respect of our senior secured credit facilities, grant first-ranking security over substantially all of their assets to secure the payment of all sums payable thereunder;
- In addition to certain mandatory prepayment events, the instructing group of lenders under our senior secured credit facilities, under certain circumstances, may cancel the commitments thereunder and declare the loans thereunder due and payable at par after the notice period following the occurrence of a change of control (as specified in our senior secured credit facilities);
- In addition to certain mandatory prepayment events, the individual lender under our senior credit facilities, under certain circumstances, may cancel its commitments thereunder and declare the loans thereunder due and payable at a price of 101% after the notice period following the occurrence of a change of control (as specified in our senior credit facilities);
- Our credit facilities contain certain customary events of default, the occurrence of which, subject to certain exceptions, materiality qualifications and cure rights, would allow the instructing group of lenders to (i) cancel the total commitments, (ii) declare that all or part of the loans be payable on demand, and/or (iii) accelerate all outstanding loans and terminate their commitments thereunder;
- Our credit facilities require that we observe certain affirmative and negative undertakings and covenants, which are subject to certain materiality qualifications and other customary and agreed exceptions;

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- In addition to customary default provisions, our senior secured credit facilities include cross-default provisions with respect to our other indebtedness, subject to agreed minimum thresholds and other customary and agreed exceptions; and
- Our senior credit facilities provide that any failure to pay principal at its stated maturity (after the expiration of any applicable grace period) of, or any acceleration with respect to, other indebtedness of the borrower or certain of our subsidiaries over agreed minimum thresholds (as specified under the senior credit facilities), is an event of default under the senior credit facilities.

Senior and Senior Secured Notes. Ziggo Bond Company B.V. and VZ Secured Financing B.V. have issued certain senior and senior secured notes, respectively. In general, our senior and senior secured notes are senior obligations of the issuer of such notes that rank equally with all of the existing and future senior debt of such issuer and are senior to all existing and future subordinated debt of such issuer. Our senior secured notes (i) contain certain guarantees from other subsidiaries of VodafoneZiggo (as specified in the applicable indenture), and (ii) are secured by certain pledges or liens over certain assets and/or shares of certain subsidiaries of VodafoneZiggo. In addition, the indentures governing our senior and senior secured notes contain certain covenants, the more notable of which are as follows:

- Subject to certain materiality qualifications and other customary and agreed exceptions, our notes contain (i) certain customary incurrence-based covenants and (ii) certain restrictions that, among other things, restrict the ability of certain of our subsidiaries to (a) incur or guarantee certain financial indebtedness, (b) make certain disposals and acquisitions, (c) create certain security interests over their assets, and (d) make certain restricted payments to their direct and/or indirect parent companies through dividends, loans or other distributions;
- Our notes provide that any failure to pay principal at its stated maturity (after the expiration of any applicable grace period) of, or any acceleration with respect to, other indebtedness of the issuer or certain of our subsidiaries over agreed minimum thresholds (as specified under the applicable indenture), is an event of default under the respective notes;
- If the relevant issuer or certain of its subsidiaries (as specified in the applicable indenture) sell certain assets, such issuer must, subject to certain materiality qualifications and other customary and agreed exceptions, offer to repurchase the applicable notes at par, or if a change of control (as specified in the applicable indenture) occurs, such issuer must offer to repurchase all of the relevant notes at a redemption price of 101%; and
- Our senior secured notes contain certain early redemption provisions including the ability to, during each 12-month period commencing on the issue date for such notes until the applicable call date, redeem up to 10% of the original principal amount of the notes at a redemption price equal to 103% of the principal amount of the notes to be redeemed plus accrued and unpaid interest.

In January 2022, we published our new Sustainable Finance Framework (**SFF**) which incorporates our previously published Green Bond Framework. Our SFF enables us to issue green and sustainable financing and aligns our Corporate Social Responsibility strategy with our capital structure. Key Performance Indicators with corresponding Sustainable Performance Targets to halve our CO2 emissions (Scope 1, 2 and 3) by 2025 (compared to 2018) are included in our SFF. Our SFF is aligned with the Green Bond Principles 2021, the Green Loan Principles 2021, the Sustainability-Linked Bond Principles 2020, and the Sustainability-Linked Loan Principles 2021 and has been certified by Sustainalytics, a leading and global independent company in Environmental, Social and Governance research and rating provider. In 2022, we issued our inaugural Sustainability-Linked Senior Secured Notes under our SFF. For additional information on the issuance of these notes, see *Financing Transactions* below.

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Credit Facilities

The Credit Facilities are the senior and senior secured credit facilities of certain subsidiaries of VodafoneZiggo. The details of our borrowings under the Credit Facilities as of December 31, 2022 are summarized in the following table:

Credit Facility	Maturity	Interest rate	Facility amount (in borrowing currency) (a)	Outstanding principal amount	Unused borrowing capacity	Carrying value (b)
in millions						
Senior Secured Facilities:						
Facility H (c)	January 31, 2029	EURIBOR + 3.00%	€ 2,250.0	€ 2,250.0	€ —	€ 2,241.1
Facility I (d)	April 30, 2028	LIBOR + 2.50%	\$ 2,525.0	2,357.5	—	2,352.4
Revolving Facility (e)	January 31, 2026	(e)	€ 800.0	—	800.0	—
Total Senior Secured Facilities				4,607.5	800.0	4,593.5
Senior Facilities:						
Financing Facility (f)	January 15, 2029	2.875%	€ 17.6	17.6	—	17.6
Total				€ 4,625.1	€ 800.0	€ 4,611.1

- (a) Amounts represent total third-party facility amounts as of December 31, 2022.
- (b) Amounts are net of unamortized premiums, discounts, and deferred financing costs, as applicable.
- (c) Facility H has a EURIBOR floor of 0.0%.
- (d) Facility I has a LIBOR floor of 0.0%.
- (e) The Revolving Facility bears interest at EURIBOR plus 2.75% (subject to a margin ratchet) and has a fee on unused commitments of 40% of such margin per year.
- (f) Amounts represent borrowings that are owed to a non-consolidated special purpose financing entity that has issued notes to finance the purchase of receivables due from our company to certain other third parties for amounts that we and our subsidiaries have vendor financed. To the extent that the proceeds from these notes exceed the amount of vendor financed receivables available to be purchased, the excess proceeds are used to fund this excess cash facility.

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Senior and Senior Secured Notes

The details of the outstanding Senior and Senior Secured Notes as of December 31, 2022 are summarized in the following table:

Senior and Senior Secured Notes	Maturity	Interest rate	Outstanding principal amount		Carrying value (a)
			Borrowing currency	Euro equivalent in millions	
2027 Senior Notes	January 15, 2027	6.000%	\$ 625.0	583.5	575.4
2030 Dollar Senior Secured Notes	January 15, 2030	4.875%	\$ 991.0	925.3	932.7
2030 Euro Senior Secured Notes	January 15, 2030	2.875%	€ 502.5	502.5	501.5
2030 Euro Senior Notes	February 28, 2030	3.375%	€ 900.0	900.0	896.0
2030 Dollar Senior Notes	February 28, 2030	5.125%	\$ 500.0	466.8	463.5
2032 Dollar Senior Secured Notes	January 15, 2032	5.000%	\$ 1,525.0	1,423.8	1,415.5
2032 Euro Senior Secured Notes	January 15, 2032	3.500%	€ 750.0	750.0	745.6
Total				€ 5,551.9	€ 5,530.2

(a) Amounts are net of unamortized premiums, discounts, fair value adjustments and deferred financing costs, as applicable.

All our notes are non-callable prior to the applicable Call Date presented in the table below. At any time prior to the applicable Call Date, we may redeem some or all of the applicable notes by paying a “make-whole” premium, which is the present value of all remaining scheduled interest payments to the applicable Call Date using the discount rate as of the redemption date plus a premium (each as specified in the applicable indenture).

Senior and Senior Secured Notes	Call Date
2027 Senior Notes	January 15, 2022
2030 Dollar Senior Secured Notes	October 15, 2024
2030 Euro Senior Secured Notes	October 15, 2024
2030 Euro Senior Notes	February 15, 2025
2030 Dollar Senior Notes	February 15, 2025
2032 Dollar Senior Secured Notes	January 15, 2027
2032 Euro Senior Secured Notes	January 15, 2027

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On or after the applicable Call Date, we may redeem some or all of these notes at the following redemption prices (expressed as a percentage of the principal amount) plus accrued and unpaid interest and additional amounts (as specified in the applicable indenture), if any, to the applicable redemption date, as set forth below:

	2027 Senior Notes	2030 Dollar Senior Secured Notes	2030 Euro Senior Secured Notes	2030 Euro Senior Notes	2030 Dollar Senior Notes	2032 Dollar Senior Secured Notes (a)	2032 Euro Senior Secured Notes (a)
12-month period commencing ...	January 15	October 15	October 15	February 15	February 15	January 15	January 15
2023	102.000%	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2024	101.000%	102.438%	101.438%	N.A.	N.A.	N.A.	N.A.
2025	100.000%	101.219%	100.719%	101.688%	102.563%	N.A.	N.A.
2026	100.000%	100.609%	100.359%	100.844%	101.281%	N.A.	N.A.
2027	100.000%	100.000%	100.000%	100.422%	100.641%	102.500%	101.750%
2028	N.A.	100.000%	100.000%	100.000%	100.000%	101.250%	100.875%
2029	N.A.	100.000%	100.000%	100.000%	100.000%	100.625%	100.438%
2030 and thereafter	N.A.	100.000%	100.000%	100.000%	100.000%	100.000%	100.000%

- (a) The redemption prices applicable to the 2032 Senior Secured Notes shall, subject to certain limitations, increase or decrease by a maximum of 0.125% per annum depending on if we have achieved certain sustainability performance targets.

Financing Transactions

Below we provide summary descriptions of certain financing transactions completed during 2022, 2021 and 2020. A portion of our financing transactions may include non-cash borrowings and repayments. During the year ended December 31, 2022, 2021 and 2020, non-cash borrowings and repayments aggregated €1,974.4 million, €173.0 million and €2,324.9 million, respectively.

2022 Financing Transactions. In January 2022, we issued (i) \$1,525.0 million (€1,347.5 million) principal amount of 5.0% sustainability-linked senior secured notes (the 2032 Dollar Senior Secured Notes) at an issue price of 99.0% of par, and (ii) €750.0 million principal amount of 3.5% sustainability-linked senior secured notes (the **2032 Euro Senior Secured Notes**, and together with the **2032 Dollar Senior Secured Notes**, the **2032 Senior Secured Notes**) at an issue price of par, each in accordance with our new SFF and maturing on January 15, 2032. From July 16, 2026 and thereafter, the interest rates applicable to the 2032 Senior Secured Notes shall increase by a maximum of 0.25% per annum unless we have achieved certain sustainability performance targets.

The net proceeds of the issuance of these notes have been used to (i) redeem in full the outstanding principal amount of our 2027 Dollar Senior Secured Notes (\$1,600.0 million) at a premium of 2.750% and (ii) redeem in full the outstanding principal amount of our 2027 Euro Senior Secured Notes (€620.0 million) at a premium of 2.125%.

In connection with this transaction, we recognized a net loss on debt extinguishment of €71.1 million related to (i) the payment of €52.0 million of redemption premiums and (ii) the write-off of fair value adjustments and unamortized deferred financing costs of €19.1 million.

2021 Financing Transactions. In March 2021, pursuant to a private placement, we issued \$200.0 million (€163.3 million) principal amount of 2030 Dollar Senior Secured Notes at an issue price of 104.25% of par. The net proceeds from the issuance of these notes were used to redeem 10% of the original aggregate principal amount of our 2027 Dollar Senior Secured Notes at a premium of 3%. In connection with this transaction, we recognized a net loss on debt extinguishment of €7.6 million related to (i) the payment of €5.0 million of redemption premiums and (ii) the write-off of €2.6 million of fair value adjustments and unamortized deferred financing costs.

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2020 Financing Transactions. During 2020, we completed a number of financing transactions that generally resulted in lower interest rates and extended maturities. In connection with these transactions, we recognized a net loss on debt extinguishment of €41.9 million. These losses include the net effect of (i) the payment of €50.5 million of redemption premiums and (ii) the release of €8.6 million of net unamortized deferred financing costs, discounts and premiums.

Maturities of Debt

The euro equivalents of the maturities of our debt as of December 31, 2022 are presented below:

	<u>Third-party</u>	<u>Related-party</u>	<u>Total</u>
	<u>in millions</u>		
Year ending December 31:			
2023 (a)	€ 1,100.4	€ —	€ 1,100.4
2024	39.0	—	39.0
2025	43.8	—	43.8
2026	—	—	—
2027	583.5	—	583.5
Thereafter	9,578.2	1,815.8	11,394.0
Total debt maturities	11,344.9	1,815.8	13,160.7
Premiums, discounts and deferred financing costs, net	(35.7)	—	(35.7)
Total debt	<u>€ 11,309.2</u>	<u>€ 1,815.8</u>	<u>€ 13,125.0</u>
Current portion	<u>€ 1,100.4</u>	<u>€ —</u>	<u>€ 1,100.4</u>
Noncurrent portion	<u>€ 10,208.8</u>	<u>€ 1,815.8</u>	<u>€ 12,024.6</u>

(a) Third-party amounts include vendor financing obligations of €999.5 million, as set forth below (in millions):

Year ending December 31:	
2023	999.5
Total vendor financing maturities (1)	<u>€ 999.5</u>
Current portion	<u>€ 999.5</u>
Noncurrent portion	<u>€ —</u>

(1) VZ Vendor Financing II B.V. (**VZ Vendor Financing II**), a third-party special purpose financing entity that is not consolidated by VodafoneZiggo, has issued an aggregate €700.0 million in notes maturing in January 2029 (the **Vendor Financing II Notes**). The net proceeds from the Vendor Financing II Notes are used by VZ Vendor Financing II to purchase from various third parties certain vendor-financed receivables owed by our company. To the extent that the proceeds from the Vendor Financing II Notes exceed the amount of vendor-financed receivables available to be purchased, the excess proceeds are used to fund the Financing Facility. As additional vendor-financed receivables become available for purchase, VZ Vendor Financing II can request that we repay any amounts made available under the Financing Facility.

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Vendor Financing Obligations

A reconciliation of the beginning and ending balances of our vendor financing obligations for the indicated periods is set forth below:

	<u>2022</u>	<u>2021</u>
	in millions	
Balance at January 1	€ 999.7	€ 999.4
Operating-related vendor financing additions	733.6	698.4
Capital-related vendor financing additions	462.8	500.2
Principal payments on operating-related vendor financing	(715.8)	(695.4)
Principal payments on capital-related vendor financing	(532.4)	(545.8)
Other	51.6	42.9
Balance at December 31	<u>€ 999.5</u>	<u>€ 999.7</u>

(9) Leases

General

We enter into operating and finance leases for network equipment, real estate, mobile site sharing and vehicles. We provide residual value guarantees on certain of our vehicle leases.

Lease Balances

A summary of our ROU assets and lease liabilities is set forth below:

	<u>December 31, 2022</u>	<u>December 31, 2021</u>
	in millions	
ROU assets:		
Operating leases (a)	€ 345.6	€ 366.7
Finance leases (b)	15.7	19.3
Total ROU assets	<u>€ 361.3</u>	<u>€ 386.0</u>
Lease liabilities:		
Operating leases (c)	€ 346.3	€ 377.3
Finance leases (d)	15.8	19.6
Total lease liabilities	<u>€ 362.1</u>	<u>€ 396.9</u>

- (a) Our operating lease ROU assets are included in other assets, net, on our consolidated balance sheets. At December 31, 2022, the weighted average remaining lease term for operating leases was 6.9 years and the weighted average discount rate was 3.4%. During 2022, 2021 and 2020, we recorded non-cash additions to our operating ROU assets of €31.6 million, €30.5 million and €19.6 million, respectively.

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- (b) Our finance lease ROU assets are included in property and equipment, net, on our consolidated balance sheets. At December 31, 2022, the weighted average remaining lease term for finance leases was 2.8 years and the weighted average discount rate was 4.0%. During 2022, 2021 and 2020, we recorded non-cash additions to our finance ROU assets of €4.6 million, €6.4 million and €13.6 million, respectively.
- (c) The current and long-term portions of our operating lease liabilities are included within other accrued and current liabilities and other long-term liabilities, respectively, on our consolidated balance sheets.
- (d) The current and long-term portions of our finance lease obligations are included within current portion of debt and finance lease obligations and long-term debt and finance lease obligations, respectively, on our consolidated balance sheets.

A summary of our aggregate lease expense is set forth below:

	Year ended December 31,		
	2022	2021	2020
	in millions		
Finance lease expense:			
Depreciation and amortization	€ 8.4	€ 9.4	€ 10.3
Interest expense	0.5	0.5	1.0
Total finance lease expense	8.9	9.9	11.3
Operating lease expense (a)	79.2	83.3	81.1
Variable lease expense, net (b)	1.8	(1.0)	(0.9)
Total lease expense	€ 89.9	€ 92.2	€ 91.5

- (a) Our operating lease expense is included in other operating expenses and SG&A expenses in our consolidated statements of operations.
- (b) Variable lease expense represents payments made to a lessor during the lease term that vary because of a change in circumstance that occurred after the lease commencement date. Variable lease payments are expensed as incurred and are included in other operating expenses in our consolidated statements of operations.

A summary of our cash outflows from operating and finance leases is set forth below:

	Year ended December 31,		
	2022	2021	2020
	in millions		
Cash paid for amounts included in the measurement of lease liabilities:			
Operating cash outflows from operating leases	€ 85.5	€ 84.6	€ 80.2
Operating cash outflows from finance leases	0.5	0.5	1.0
Financing cash outflows from finance leases	8.2	9.0	10.1
Total cash outflows from operating and finance leases	€ 94.2	€ 94.1	€ 91.3

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Maturities of our operating and finance lease obligations as of December 31, 2022 are presented below. Amounts presented below represent euro equivalents based on December 31, 2022, exchange rates:

	<u>Operating leases</u>	<u>Finance leases</u>
	in millions	
Year ending December 31:		
2023	81.9	7.0
2024	74.7	5.2
2025	55.5	2.9
2026	45.7	1.0
2027	37.4	0.3
Thereafter	107.8	—
Total principal and interest payments	403.0	16.4
Less: present value discount	(56.7)	(0.6)
Present value of net minimum lease payments	€ 346.3	€ 15.8
Current portion	€ 68.8	€ 6.6
Noncurrent portion	€ 277.5	€ 9.2

(10) Income Taxes

Our consolidated financial statements include the income taxes of VodafoneZiggo and its subsidiaries.

The VodafoneZiggo Fiscal Unity, established on the level of VodafoneZiggo Group Holding, is one taxpayer for the period of time subsequent to the formation of the VodafoneZiggo JV. The income taxes of VodafoneZiggo are recorded in our consolidated financial statements on a separate return basis. Current income taxes payable or receivable, if any, are presented as current positions with the tax authorities. VodafoneZiggo Group Holding did not implement a tax-sharing agreement and no cash payments will be made between VodafoneZiggo entities and VodafoneZiggo Group Holding related to the Dutch tax attributes. Accordingly, related-party tax allocations, if any, are reflected as adjustments in our consolidated statement of owner's equity.

During 2022, we recorded an income tax expense of €202.7 million, consisting of (i) a current income tax expense of €148.7 million and (ii) a deferred income tax expense of €54.0 million. During 2021, we recorded an income tax expense of €61.1 million, consisting of (i) a current income tax expense of €61.8 million and (ii) a deferred income tax benefit of €0.7 million. During 2020, we recorded an income tax expense of €141.5 million related to deferred tax.

Income tax benefit (expense) attributable to our result before income taxes differs from the amounts computed using the Dutch income tax rate of 25.8% (2021 and 2020: 25.0%) as a result of the following:

	<u>Year ended December 31,</u>		
	<u>2022</u>	<u>2021</u>	<u>2020</u>
	in millions		
Computed "expected" tax benefit (expense)	€ (148.9)	€ 19.2	€ 62.9
Enacted tax law and rate changes (a)	—	(35.3)	(138.8)
Change in valuation allowances	(55.4)	(42.4)	—
Non-deductible expenses (b)	(0.4)	(1.1)	(68.8)
Other, net	2.0	(1.5)	3.2
Total income tax expense	€ (202.7)	€ (61.1)	€ (141.5)

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- (a) On December 27, 2021, legislation was enacted in the Netherlands to increase the highest Dutch corporate income tax rate from 25.0% to 25.8% effective January 1, 2022. The impact of this rate change on our deferred tax balances was recorded during the fourth quarter of 2021. On December 23, 2020, legislation was enacted in the Netherlands to retain the 25.0% corporate tax rate, eliminating the previously enacted reduction to 21.7%. Substantially all of the impacts of this rate change on our deferred tax balances were recorded during the fourth quarter of 2020.
- (b) Amount for the year ended December 31, 2020, consists mainly of a change in estimate relating to the deductibility of depreciation of certain intangible assets included in our prior year tax returns as well as future deductibility of those assets

The tax effects of temporary differences that give rise to significant portions of the deferred tax assets and deferred tax liabilities are presented below:

	December 31,	
	2022	2021
	in millions	
Deferred tax assets:		
Debt and interest	169.0	47.0
Derivative instruments	—	34.4
Other future deductible amounts	12.6	16.8
Deferred tax assets	181.6	98.2
Valuation allowance (a)	(97.8)	(42.4)
Deferred tax assets, net of valuation allowance	83.8	55.8
Deferred tax liabilities:		
Intangible assets	(917.0)	(1,038.4)
Property and equipment, net	(152.1)	(181.8)
Derivative instruments	(237.7)	—
Other future taxable amounts	(4.1)	(8.7)
Deferred tax liabilities	(1,310.9)	(1,228.9)
Net deferred tax liability	€ (1,227.1)	€ (1,173.1)

- (a) Our deferred income tax valuation allowance increased by €55.4 million in 2022. This increase reflects the impact of the interest deduction limitation being reduced from 30% of fiscal EBITDA to 20% as of January 1, 2022. This limits our ability to recover non-deductible interest as well as losses on debt extinguishment; therefore, we have recorded a valuation allowance in respect of these items.

In the normal course of business, our income tax filings are subject to review by the Dutch tax authority. In connection with such review, disputes could arise with the tax authority over the interpretation or application of certain income tax rules related to our business. Such disputes may result in future tax and interest and penalty assessments by the tax authority. The ultimate resolution of tax contingencies will take place upon the earlier of (i) the settlement date with the tax authority in either cash or agreement of income tax positions or (ii) the date when the tax authority is statutorily prohibited from adjusting the company's tax computations. In this respect, tax filings for the years 2019 - 2021 are still open for examination by the Dutch tax authority.

There were no material unrecognized tax benefits during 2022, 2021 or 2020.

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(11) Related-party Transactions

Our related-party transactions for the periods are as follows:

	Year ended December 31,		
	2022	2021	2020
	in millions		
Revenue	€ 20.5	€ 16.4	€ 13.2
Programming and other direct costs of services	(59.7)	(29.8)	(10.0)
Selling, general and administrative recharges	10.4	15.6	13.0
Share-based compensation expense	—	(0.5)	(0.3)
Impairment, restructuring and other operating items, net	0.4	(1.5)	—
Charges for JV Services:			
Charges from Liberty Global:			
Operating (a)	(89.9)	(86.5)	(81.8)
Capital (b)	(16.3)	(16.3)	(24.7)
Total Liberty Global corporate charges	(106.2)	(102.8)	(106.5)
Charges from Vodafone:			
Operating (c)	(78.1)	(82.2)	(88.3)
Brand fees (d)	(30.0)	(30.0)	(30.0)
Total Vodafone corporate charges	(108.1)	(112.2)	(118.3)
Total charges for JV Services	(214.3)	(215.0)	(224.8)
Included in operating income	(242.7)	(214.8)	(208.9)
Interest expense	(102.2)	(95.5)	(84.0)
Included in earnings (loss) before income taxes	€ (344.9)	€ (310.3)	€ (292.9)
Property and equipment additions, net	€ 215.3	€ 186.4	€ 173.9

- (a) Represents amounts charged for technology and other services, which are included in the calculation of the “EBITDA” metric specified by our debt agreements (**Covenant EBITDA**).
- (b) Represents amounts charged for capital expenditures made by Liberty Global related to assets that we use or will otherwise benefit our company. These charges are not included in the calculation of Covenant EBITDA.
- (c) Represents amounts charged by Vodafone for technology and other services, a portion of which are included in the calculation of Covenant EBITDA.
- (d) Represents amounts charged for our use of the Vodafone brand name. These charges are not included in the calculation of Covenant EBITDA.

Revenue. Amounts represent interconnect fees charged by us to certain subsidiaries of Vodafone.

Programming and other direct costs of services. Amounts represent interconnect fees charged to us by certain subsidiaries of Vodafone.

Selling, general and administrative recharges. Amounts represent recharges for certain personnel services provided to Vodafone and Liberty Global.

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Charges for JV Services - Framework and Trade Mark Agreements

Pursuant to a framework and a trade name agreement (collectively, the **JV Service Agreements**), Liberty Global and Vodafone charge us fees for certain services provided to us by the respective subsidiaries of the Shareholders (collectively, the **JV Services**). The JV Services are provided to us on an ongoing basis. Pursuant to the terms of the JV Service Agreements, the JV Services can be terminated based on specified notice periods. The JV Services provided by the respective subsidiaries of the Shareholders consist primarily of (i) technology and other services, (ii) capital-related expenditures for assets that we use or otherwise benefit us, and (iii) brand name and procurement fees. The fees that Liberty Global and Vodafone charge us for the JV Services, as set forth in the table above, include both fixed and usage-based fees. The JV Service Agreements are currently being revised, including technical descriptions and commercial terms, and are expected to be finalized in the first half of 2023.

Interest expense. Amounts relate to the Liberty Global Notes and the Vodafone Notes, as defined and described below.

Property and equipment additions, net. These amounts, which are cash settled, represent customer premises and network-related equipment acquired from certain Liberty Global and Vodafone subsidiaries, which subsidiaries centrally procure equipment on behalf of our company.

The following table provides details of our related-party balances:

	December 31,	
	2022	2021
	in millions	
Assets:		
Related-party receivables (a)	€ 47.4	€ 47.1
Liabilities:		
Accounts payable (b)	150.8	98.4
Accrued and other current liabilities (b)	15.7	61.0
Debt (c):		
Liberty Global Notes	907.9	907.9
Vodafone Notes	907.9	907.9
Other long-term liabilities (d)	2.2	2.5
Total liabilities	€ 1,984.5	€ 1,977.7

- (a) Represents non-interest bearing receivables from certain Liberty Global and Vodafone subsidiaries.
- (b) Represents non-interest bearing payables, accrued capital expenditures and other accrued liabilities related to transactions with certain Liberty Global and Vodafone subsidiaries that are cash settled.
- (c) Represents debt obligations, as further described below.
- (d) Represents operating lease liabilities, related to Vodafone.

Related-party Debt

Liberty Global Notes

The Liberty Global Notes comprise (i) a euro-denominated note payable to a subsidiary of Liberty Global with a principal amount of €700.0 million at December 31, 2022 (the **Liberty Global Note Payable I**) and (ii) a euro-denominated note payable to a subsidiary of Liberty Global entered into during the third quarter of 2020 with a principal amount of €207.9 million at December 31, 2022 (the **Liberty Global Note Payable II**, and, together with the Liberty Global Note Payable I, the **Liberty**

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Global Notes Payable), out of which, €103.9 million was drawn during July 2021, to fund the final installment of spectrum license fees due to the Dutch government. The Liberty Global Note Payable I, as amended in June 2020, and the Liberty Global Note Payable II each bear interest at a fixed rate of 5.55% and have a final maturity date of December 31, 2030. During the year ended December 31, 2022, interest accrued on the Liberty Global Notes Payable was €51.1 million, all of which has been cash settled.

Vodafone Notes

The Vodafone Notes comprise (i) a euro-denominated note payable to a subsidiary of Vodafone with a principal amount of €700.0 million at December 31, 2022 (the **Vodafone Note Payable I**) and (ii) a euro-denominated note payable to a subsidiary of Vodafone entered into during the third quarter of 2020 with a principal amount of €207.9 million at December 31, 2022 (the **Vodafone Note Payable II**, and, together with the Vodafone Note Payable I, the **Vodafone Notes Payable**), out of which, €103.9 million was drawn during July 2021, to fund the final installment of spectrum license fees due to the Dutch government. The Vodafone Note Payable I, as amended in July 2020, and the Vodafone Note Payable II each bear interest at a fixed rate of 5.55% and have a final maturity date of December 31, 2030. During the year ended December 31, 2022, interest accrued on the Vodafone Notes Payable was €51.1 million, all of which has been cash settled.

Shareholders Agreement

In connection with the JV Transaction, on December 31, 2016, Liberty Global and Vodafone entered into a shareholders agreement (the **Shareholders Agreement**) with VodafoneZiggo Group Holding in respect of the VodafoneZiggo JV. Each Shareholder holds 50% of the issued share capital of VodafoneZiggo Group Holding. The Shareholders Agreement contains customary provisions for the governance of a 50:50 joint venture that result in Liberty Global and Vodafone having joint control over decision making with respect to the VodafoneZiggo JV. Furthermore, each Shareholder has the right to initiate an initial public offering (**IPO**) of the VodafoneZiggo JV with the opportunity for the other Shareholder to sell shares in the IPO on a pro rata basis. As of January 1, 2021, each Shareholder has the right to initiate a sale of all of its interest in the VodafoneZiggo JV to a third party and, under certain circumstances, initiate a sale of the entire VodafoneZiggo JV, subject, in each case, to a right of first offer in favor of the other Shareholder.

The Shareholders Agreement also provides (i) for a dividend policy that requires the VodafoneZiggo JV to distribute all unrestricted cash to the Shareholders as soon as reasonably practicable following each two month period (subject to the VodafoneZiggo JV maintaining a minimum amount of cash and complying with the terms of financing arrangements of its subsidiaries) and (ii) that the VodafoneZiggo JV will be managed with a leverage ratio of between 4.5 and 5.0 times Covenant EBITDA (as calculated pursuant to existing financing arrangements of its subsidiaries) with the VodafoneZiggo JV undertaking periodic recapitalizations and/or refinancings accordingly.

In accordance with the dividend policy prescribed in the joint venture agreement governing our company (the **Shareholders Agreement**), VodafoneZiggo made total distributions of €500.0 million, €530.0 million and €417.0 million during 2022, 2021 and 2020, respectively, to VodafoneZiggo Group Holding who ultimately distributed 50% of these amounts to each of Liberty Global and Vodafone. The distributions are reflected as a decrease to owner's equity in our consolidated statements of owner's equity.

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(12) Commitments and Contingencies

Commitments

As further described in note 11, we have commitments related to the JV Service Agreements. Additionally, in the normal course of business, we have entered into agreements that commit our company to make cash payments in future periods with respect to programming contracts, purchases of customer premises and other equipment and services and other items. The following table sets forth these commitments as of December 31, 2022. The commitments included in this table do not reflect any liabilities that are included in our December 31, 2022 consolidated balance sheet.

	Payments due during:						Total
	2023	2024	2025	2026	2027	Thereafter	
	in millions						
Programming commitments	€ 122.8	€ 124.6	€ 91.6	€ 50.2	€ 30.0	€ 12.0	€ 431.2
Purchase commitments	245.3	15.0	10.8	1.2	0.4	0.1	272.8
JV Service Agreements (a)	93.4	36.4	32.3	31.9	30.5	30.0	254.5
Other commitments	25.2	23.7	15.7	7.6	7.2	32.2	111.6
Total	€ 486.7	€ 199.7	€ 150.4	€ 90.9	€ 68.1	€ 74.3	€1,070.1

(a) Amounts represent fixed minimum charges from Liberty Global and Vodafone pursuant to the JV Service Agreements. In addition to the fixed minimum charges, the JV Service Agreements provide for certain JV Services to be charged to us based upon usage of the services received. The fixed minimum charges set forth in the table above exclude fees for the usage-based services as these fees will vary from period to period. Accordingly, we expect to incur charges in addition to those set forth in the table above for usage-based services. The JV Service Agreements are currently being revised, including technical descriptions and commercial terms, and are expected to be finalized in the first half of 2023. For additional information regarding fees related to the JV Service Agreements, see note 11.

Programming commitments consist of obligations associated with certain of our programming contracts that are enforceable and legally binding on us as we have agreed to pay minimum fees without regard to (i) the actual number of subscribers to the programming services or (ii) whether we terminate service to a portion of our subscribers or dispose of a portion of our distribution systems. In addition, programming commitments do not include increases in future periods associated with contractual inflation or other price adjustments that are not fixed. Accordingly, the amounts reflected in the above table with respect to these contracts are significantly less than the amounts we expect to pay in these periods under these contracts. Historically, payments to programming vendors have represented a significant portion of our operating costs, and we expect that this will continue to be the case in future periods. In this regard, during 2022, 2021 and 2020 the programming and copyright costs incurred by our operations aggregated €301.5 million, €315.0 million and €306.9 million, respectively.

Purchase commitments include unconditional and legally binding obligations related to the purchase of customer premises, other equipment and mobile handsets.

Other commitments primarily include sponsorships and certain fixed minimum contractual commitments.

In addition to the commitments set forth in the table above, we have commitments under (i) derivative instruments and (ii) multiemployer defined benefit plans, pursuant to which we expect to make payments in future periods. For information regarding our derivative instruments, including the net cash paid or received in connection with these instruments during 2022, see note 5.

We provide retirement benefits to our subsidiaries' employees via multiemployer benefit plans and a defined contribution plan. The aggregate expense of our matching contributions under the various multiemployer benefit plans was €28.8 million, €30.4 million and €29.6 million during 2022, 2021 and 2020, respectively. The aggregate expense of our matching contributions under the defined contribution plan was €20.0 million, €19.2 million and €17.5 million during 2022, 2021 and 2020, respectively.

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Guarantees and Other Credit Enhancements

In the ordinary course of business, we may provide (i) indemnifications to our lenders, our vendors and certain other parties and (ii) performance and/or financial guarantees to local municipalities, our customers and vendors. Historically, these arrangements have not resulted in our company making any material payments and we do not believe that they will result in material payments in the future.

Regulations and Contingencies

Video distribution, broadband internet, fixed-line telephony, mobile and content businesses are subject to significant regulation and supervision by various regulatory bodies in the Netherlands, including Dutch and EU authorities. Adverse regulatory developments could subject our businesses to a number of risks. Regulation, including conditions imposed on us by competition or other authorities as a requirement to close acquisitions or dispositions, could limit growth, revenue and the number and types of services offered and could lead to increased operating costs and property and equipment additions. In addition, regulation may restrict our operations and subject them to further competitive pressure, including pricing restrictions, interconnect and other access obligations, and restrictions or controls on content, including content provided by third parties. Failure to comply with current or future regulation could expose our businesses to various penalties.

VAT. Our application of VAT with respect to certain mobile revenue generating activities has been challenged by the Dutch tax authorities in two different court cases. The Dutch tax authorities challenged the multipurpose character of certain mobile subscriptions that we entered into during 2017 and 2018. No amounts have been accrued by our company as the likelihood of loss is not considered to be probable. The total asserted claimed amount is approximately €33.4 million.

The oral hearing of our first court case was held on May 31, 2021 and the other court case took place on May 16, 2022. The court's verdict in both cases was in favor of the tax authorities. We have appealed this decision to the higher court and the hearing of both cases was held on February 14, 2023.

In addition to the foregoing item, we have contingent liabilities related to matters arising in the ordinary course of business including (i) legal proceedings, (ii) issues involving VAT and wage, property and other tax issues, and (iii) disputes over interconnection, programming, copyright, and channel carriage fees. While we generally expect that the amounts required to satisfy these contingencies will not materially differ from any estimated amounts we have accrued, no assurance can be given that the resolution of one or more of these contingencies will not result in a material impact on our results of operations, cash flows or financial position in any given period. Due to, in general, the complexity of the issues involved and, in certain cases, the lack of a clear basis for predicting outcomes, we cannot provide a meaningful range of potential losses or cash outflows that might result from any unfavorable outcomes.

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(13) Segment Reporting

We have one reportable segment that provides fixed, mobile and integrated communication and entertainment services to consumers and businesses in the Netherlands.

Our revenue by major category is set forth below:

	Year ended December 31,		
	2022	2021	2020
	in millions		
Consumer fixed revenue (a):			
Subscription revenue	€ 2,026.6	€ 2,076.8	€ 2,071.7
Non-subscription revenue	13.0	25.1	23.8
Total consumer fixed revenue	2,039.6	2,101.9	2,095.5
Consumer mobile revenue (b):			
Service revenue	673.7	644.2	624.5
Non-service revenue	236.7	247.9	245.6
Total consumer mobile revenue	910.4	892.1	870.1
Total consumer revenue	2,950.0	2,994.0	2,965.6
B2B fixed revenue (c):			
Subscription revenue	525.5	516.9	482.4
Non-subscription revenue	11.7	13.5	15.6
Total B2B fixed revenue	537.2	530.4	498.0
B2B mobile revenue (d):			
Service revenue	392.0	364.8	381.1
Non-service revenue	145.2	130.2	114.1
Total B2B mobile revenue	537.2	495.0	495.2
Total B2B revenue	1,074.4	1,025.4	993.2
Other revenue (e)	41.2	57.5	41.4
Total	€ 4,065.6	€ 4,076.9	€ 4,000.2

- (a) Consumer fixed revenue is classified as either subscription revenue or non-subscription revenue. Consumer fixed subscription revenue includes revenue from subscribers for ongoing broadband internet, video and telephony services offered to residential customers and the amortization of installation fee. Consumer fixed non-subscription revenue includes, among other items, interconnect, channel carriage fees, late fees and revenue from the sale of equipment. Subscription revenue from subscribers who purchase bundled services at a discounted rate is generally allocated proportionally to each service based on the stand-alone price for each individual service. As a result, changes in the stand-alone pricing of our fixed and mobile products or the composition of bundles can contribute to changes in our product revenue categories from period to period.
- (b) Consumer mobile revenue is classified as either service revenue or non-service revenue. Consumer mobile service revenue includes revenue from ongoing mobile and data services offered under postpaid and prepaid arrangements to residential customers. Consumer mobile non-service revenue includes, among other items, interconnect revenue, mobile handset and accessories sales, and late fees.
- (c) B2B fixed revenue is classified as either subscription revenue or non-subscription revenue. B2B fixed subscription revenue includes revenue from business broadband internet, video, voice, and data services, offered to SOHO customers and small and medium to large enterprises. B2B fixed non-subscription revenue includes, among other items, revenue from hosting services, installation fees, carriage fees and interconnect.

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- (d) B2B mobile revenue is classified as either service revenue or non-service revenue. B2B mobile service revenue includes revenue from ongoing mobile and data services offered to SOHO, small and medium to large enterprise customers as well as wholesale customers. B2B mobile non-service revenue includes, among other items, interconnect (including visitor) revenue, mobile handset and accessories sales, and late fees.
- (e) Other revenue includes, among other items, programming, advertising and site sharing revenue.