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

# **FORM 10-K**

Ø	ANNUAL REPORT PURSU		TO SECTION 13 OR 15(d) THE FISCAL YEAR ENDED DI OR			E ACT OF 1934
	TRANSITION REPORT PU		NT TO SECTION 13 OR 1 E TRANSITION PERIOD FROM COMMISSION FILE NUMBE	·	то	ANGE ACT OF 1934
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	Delaware				38-3916511	
	(State or other jurisdiction incorporation or organize				(I.R.S. Employer Identification	No.)
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			ant's telephone number, including an curities registered pursuant to Section			
	Title of each class		Trading Symbol(s)		Name of exchange on v	
	Common stock, \$0.001 par value		SIRI		The NASDAQ Stock	Market LLC
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#### PART I

#### ITEM 1. BUSINESS

This Annual Report on Form 10-K presents information for Sirius XM Holdings Inc. ("Holdings"), a Delaware corporation. The terms "Holdings," "we," "us," "our," and "our company" as used herein and unless otherwise stated or indicated by context, refer to Sirius XM Holdings Inc. and its subsidiaries. "Sirius XM" refers to our wholly owned subsidiary Sirius XM Radio Inc. and its subsidiaries other than Pandora. "Pandora" refers to Sirius XM's wholly owned subsidiary Pandora Media, LLC and its subsidiaries.

#### Sirius XM Holdings Inc.

Holdings was incorporated in the State of Delaware on May 21, 2013. Holdings has no operations independent of its wholly owned subsidiaries, Sirius XM and Pandora.

#### Relationship with Liberty Media

As of December 31, 2021, Liberty Media Corporation ("Liberty Media") beneficially owned, directly and indirectly, approximately 81% of the outstanding shares of Holdings' common stock. Liberty Media owns interests in a range of media, communications and entertainment businesses.

#### **Our Businesses**

We operate two complementary audio entertainment businesses - our Sirius XM business and our Pandora business. We continue to expand the range of choices for our listeners – both in terms of compelling content and the array of ways in which it can be consumed. There are approximately 144 million vehicles in operation with Sirius XM radios, and the proliferation of smart speakers and other connected devices has increased the range of options consumers have for engaging with and consuming our content.

We also are focused on rapidly growing content categories, such as podcasting. In 2021, an estimated 116 million Americans listened to a podcast at least monthly.

#### Sirius XM

Our Sirius XM business features music, sports, entertainment, comedy, talk, news, traffic and weather channels and other content, as well as podcasts and infotainment services, in the United States on a subscription fee basis. Sirius XM's premier content bundles include live, curated and certain exclusive and on demand programming. The Sirius XM service is distributed through our two proprietary satellite radio systems and streamed via applications for mobile devices, home devices and other consumer electronic equipment. Satellite radios are primarily distributed through automakers, retailers and our website. Our Sirius XM service is also available through our user interface, which we call "360L," that combines our satellite and streaming services into a single, cohesive in-vehicle entertainment experience.

The primary source of revenue from our Sirius XM business is subscription fees, with most of our customers subscribing to monthly, quarterly, semi-annual or annual plans. We also derive revenue from advertising on select non-music channels, direct sales of our satellite radios and accessories, and other ancillary services. As of December 31, 2021, our Sirius XM business had approximately 34.0 million subscribers.

In addition to our audio entertainment businesses, we provide connected vehicle services to several automakers. These services are designed to enhance the safety, security and driving experience of consumers. We also offer a suite of data services that includes graphical weather, fuel prices, sports schedules and scores and movie listings, a traffic information service that includes information as to road closings, traffic flow and incident data to consumers with compatible in-vehicle navigation systems, and real-time weather services in vehicles, boats and planes.

Sirius XM also holds a 70% equity interest and 33% voting interest in Sirius XM Canada Holdings Inc. ("Sirius XM Canada").

#### Pandora

Our Pandora business operates a music, comedy and podcast streaming platform, offering a personalized experience for each listener wherever and whenever they want to listen, whether through mobile devices, car speakers or connected devices. Pandora enables listeners to create personalized stations and playlists, discover new content, hear artist- and expert-curated playlists, podcasts and select Sirius XM content as well as search and play songs and albums on-demand. Pandora is available as (1) an ad-supported radio service, (2) a radio subscription service (Pandora Plus) and (3) an on-demand subscription service (Pandora Premium). As of December 31, 2021, Pandora had approximately 6.4 million subscribers.

The majority of revenue from our Pandora business is generated from advertising on our Pandora ad-supported radio service. We also derive subscription revenue from our Pandora Plus and Pandora Premium subscribers.

Our Pandora business also sells advertising on audio platforms and in podcasts unaffiliated with us. Pandora has an arrangement with SoundCloud Holdings, LLC ("SoundCloud") to be its exclusive US ad sales representative. Through this arrangement, Pandora is able to offer advertisers the ability to execute campaigns in the US across the Pandora and SoundCloud listening platforms. In addition, through AdsWizz Inc., Pandora provides a comprehensive digital audio and programmatic advertising technology platform, which connects audio publishers and advertisers with a variety of ad insertion, campaign trafficking, yield optimization, programmatic buying, marketplace and podcast monetization solutions. Pandora, through its Simplecast business, also offers a podcast management and analytics platform. Simplecast complements AdsWizz's advertising technology platform, allowing the company to offer podcasters a solution for management, hosting, analytics and advertising sales.

In 2020, Sirius XM also acquired Stitcher and its Midroll advertising network from the E.W Scripps Company. Stitcher is a leader in the distribution of podcasts and serves as the ad sales representative for many podcasts, including Oprah's Super Soul, Freakonomics Radio, Office Ladies, Your Mom's House, Hidden Brain, and Conan O'Brien Needs a Friend.

### **Our Sirius XM Business**

#### Programming

We offer a dynamic programming lineup of commercial-free music plus sports, entertainment, comedy, talk, and news, including:

- · an extensive selection of music genres, ranging from rock, pop and hip-hop to country, dance, jazz, Latin and classical;
- live play-by-play sports from major leagues and colleges;
- a multitude of talk, entertainment and comedy channels for a variety of audiences;
- a wide range of national, international and financial news; and
- · exclusive limited run channels.

We believe that our broad and diverse programming, including our lineup of exclusive content, is a significant differentiator from terrestrial radio and other audio entertainment providers. We make changes to our programming lineup from time to time as we strive to attract new subscribers and offer content which appeals to a broad range of audiences and to our existing subscribers. The channel lineups for our services are available at siriusxm.com.

Our Sirius XM business aims to be a platform for diverse perspectives and to facilitate dialogue on a broad set of issues. This is reflected across the content provided to listeners, which includes channels dedicated to diverse and historically underrepresented groups, as well as broader programming celebrating such events as Black History Month, Latinx and Hispanic Heritage Month, LGBTQIA+ Pride Month, and Women's History Month. We continue to expand our offerings, including through programming that represents diverse viewpoints, historically underserved audiences and original content of a type not typically available to consumers.

## Streaming Service

Our streaming service includes a variety of music and non-music channels, including channels and content that are not available on our satellite radio service, and podcasts. We offer applications to allow consumers to access our streaming service on smartphones, tablets, computers, home devices and other consumer electronic equipment.

Our streaming product currently features: the broad range of music, sports, talk, news and entertainment channels available on satellite radio; access to over 200 additional music channels, which we refer to as Xtra Music Channels; and video content, including video from The Howard Stern Show and performances and interviews from Sirius XM's archives, including in-studio performances and behind-the-scenes moments with artists, personalities and newsmakers.

Our Sirius XM service also includes a library of podcasts, some of which are exclusive to our service, and other on demand content. Our streaming service offers subscribers the ability to choose their favorite podcast episodes from a catalog of content as well as select material from a library of podcasts we are assembling.

Our streaming service is included as part of the vast majority of Sirius XM's packages, including the Music and Entertainment and Platinum plans. Our Personalized Stations Powered by Pandora feature, which allows subscribers to create their own customized commercial-free music stations within the SXM App, is offered to consumers as part of the price of Sirius XM's Platinum and Platinum VIP plans. We also offer our streaming service in several standalone packages, which do not include a satellite radio subscription. These packages, which include the Streaming Platinum Plan and the Streaming Music and Entertainment Plan, are available to consumers at various prices and include a variety of content.

We have entered into agreements with third parties designed to increase the distribution and ease of use of our streaming service, including through connected devices. We also have arrangements with various services and consumer electronics manufacturers to include the Sirius XM streaming functionality with their service and devices.

## 360L

Our next generation automotive platform, which we call "360L," combines our satellite and streaming services into a single, cohesive in-vehicle entertainment experience. We have agreements with many automakers to deploy our 360L interface in a variety of vehicles. We believe that 360L will be included in a majority of vehicles that include Sirius XM functionality in the future.

360L allows us to take advantage of advanced in-dash infotainment systems. 360L is intended to leverage the ubiquitous signal coverage and low delivery costs of our satellite infrastructure with the two-way communication capability of a wireless streaming service to provide consumers seamless access to our content, including our live channels, on demand service, podcasts and even more personalized music services. The wireless streaming connection included in 360L enables enhanced search and recommendations functions, making discovery of our content in the vehicle easier. In certain cases, 360L also allows consumers to manage aspects of their subscriptions directly through their vehicles' equipment and provides us data on how our subscribers use our service.

#### Distribution of Radios

#### New Vehicles

We distribute satellite radios through the sale and lease of new vehicles. We have agreements with major automakers to offer satellite radios in their vehicles. Satellite radios are available as a factory-installed feature in substantially all vehicle makes sold in the United States.

Most automakers include a subscription to our service in the sale or lease of their new vehicles. In certain cases, we receive subscription payments from automakers in advance of the activation of our service. We share with certain automakers a portion of the revenues we derive from subscribers using vehicles equipped to receive our service. We also reimburse various automakers for certain costs associated with the satellite radios installed in new vehicles, including in certain cases hardware costs, engineering expenses and promotional and advertising expenses.

# Previously Owned Vehicles

We acquire subscribers through the sale and lease of previously owned vehicles with factory-installed satellite radios. We have entered into agreements with many automakers to include a subscription to our service in the sale or lease of vehicles which include satellite radios sold through their certified pre-owned programs. We also work directly with franchise and independent dealers on programs for non-certified used vehicles.

We have developed systems and methods to identify purchasers and lessees of previously owned vehicles which include satellite radios and have established marketing plans to promote our services to these potential subscribers.

#### Retail

We sell satellite radios directly to consumers through our website. Satellite radios are also marketed and distributed through national, regional and online retailers, such as Amazon.com.

## Our Satellite Radio Systems

Our satellite radio systems are designed to provide clear reception in most areas of the continental United States despite variations in terrain, buildings and other obstructions. We continually monitor our infrastructure and regularly evaluate improvements in technology.

Our satellite radio systems have three principal components:

- · satellites, terrestrial repeaters and other satellite facilities;
- studios; and
- radios.

# Satellites, Terrestrial Repeaters and Other Satellite Facilities

Satellites. We provide our service through a fleet of orbiting geostationary satellites. Two of these satellites, FM-5 and FM-6, transmit our service on frequencies originally licensed by the Federal Communications Commission (the "FCC") to Sirius, and two of these satellites, XM-4 and SXM-8, transmit our service on frequencies originally licensed by the FCC to XM. Our XM-3 and XM-5 satellites serve as spares for the XM system.

Our SXM-8 satellite was successfully launched into a geostationary orbit on June 6, 2021 and was placed into service on September 8, 2021 following the completion of in-orbit testing. The SXM-8 satellite replaced our XM-3 satellite, which remains available as an in-orbit spare along with XM-5.

On December 13, 2020, our SXM-7 satellite was successfully launched and in-orbit testing of SXM-7 began on January 4, 2021. During in-orbit testing of SXM-7, events occurred which caused failures of certain SXM-7 payload units. The evaluation of SXM-7 concluded that the satellite will not function as intended. SXM-7 remains in-orbit at its assigned orbital location, but is not being used to provide satellite radio service.

We have entered into agreements for the design, construction and launch of two additional satellites, SXM-9 and SXM-10. Construction of our SXM-9 and SXM-10 satellites is underway and those satellites are expected to be launched into geostationary orbits in 2024 and 2025, respectively.

Satellite Insurance. We have procured insurance for SXM-8 to cover the risks associated with the satellite's first year of in-orbit operation. In 2021, we collected an aggregate of \$225 million under the insurance policies we purchased with respect to SXM-7. We do not have insurance policies covering our other in-orbit satellites as we consider the premium costs to be uneconomical relative to the risk of satellite failure.

Terrestrial Repeaters. In some areas with high concentrations of tall buildings, such as urban centers, signals from our satellites may be blocked and reception of satellite signals can be adversely affected. In other areas with a high density of next generation wireless systems our service may experience interference. In many of these areas, we have deployed terrestrial repeaters to supplement and enhance our signal coverage and, in other areas, we may deploy additional repeaters to mitigate interference. We operate over 1,000 terrestrial repeaters across the United States as part of our systems.

Other Satellite Facilities. We control and communicate with our satellites from facilities in North America. Our satellites are monitored, tracked and controlled by a third party satellite operator.

## Studios

Our programming originates from studios in New York City, Los Angeles and Washington D.C. and, to a lesser extent, from smaller studios in Nashville and a variety of venues across the country. Our corporate headquarters is in New York City. We provide equipment to artists and hosts to enable remote creation and transmission of programming.

#### Radios

We do not manufacture radios. We have authorized manufacturers and distributors to produce and distribute radios, and have licensed our technology to various electronics manufacturers to develop, manufacture and distribute radios under certain brands. We do manage various aspects of the production of satellite radios. To facilitate the sale of radios, we may subsidize a portion of the radio manufacturing costs to reduce the hardware price to consumers.

#### **Connected Vehicle Services**

We provide connected vehicle services to several automakers. Our connected vehicle services are designed to enhance the safety, security and driving experience for vehicle operators while providing marketing and operational benefits to automakers and their dealers. We offer a portfolio of location-based services through two-way wireless connectivity, including safety, security, convenience, maintenance and data services, remote vehicle diagnostics, and stolen or parked vehicle locator services. Subscribers to our connected vehicle services are not included in our subscriber count or subscriber-based operating metrics.

#### Other Services

Commercial Accounts. Our programming is available for commercial establishments. Commercial subscription accounts are available through providers of in-store entertainment solutions and directly from us.

Satellite Television Service. Certain of our music channels are offered as part of select programming packages on the DISH Network satellite television service.

Travel Link. We offer Travel Link, a suite of data services that includes graphical weather, fuel prices, sports schedules and scores and movie listings.

Real-Time Traffic Services. We offer services that provide graphic information as to road closings, traffic flow and incident data to consumers with compatible invehicle navigation systems.

Real-Time Weather Services. We offer real-time weather services in vehicles, boats and planes.

Commercial subscribers are included in our subscriber count. Subscribers to the DISH Network satellite television service are not included in our subscriber count and subscribers to our Travel Link, real-time traffic services and real-time weather services are not included in our subscriber count, unless the applicable service is purchased by the subscriber separately and not as part of a radio subscription to our service.

#### Sirius XM Canada

Sirius XM holds a 70% equity interest and 33% voting interest in Sirius XM Canada, with the remainder of Sirius XM Canada's voting and equity interests held by two shareholders.

Sirius XM has entered into a Services Agreement and an Advisory Services Agreement with Sirius XM Canada. Each agreement has a thirty year term. Pursuant to the Services Agreement, Sirius XM Canada pays Sirius XM 25% of its gross revenues on a monthly basis and, pursuant to the Advisory Services Agreement, Sirius XM Canada pays Sirius XM 5% of its gross revenues on a monthly basis.

As of December 31, 2021, Sirius XM Canada had approximately 2.5 million subscribers. Sirius XM Canada's subscribers are not included in our subscriber count or subscriber-based operating metrics.

## Our Pandora Business

Pandora Media, LLC, which owns and operates our Pandora business, is a wholly owned subsidiary of Sirius XM.

# Streaming Radio and On-Demand Music Services

Our Pandora business offers a personalized audio entertainment platform for each listener. Users are able to create personalized stations and playlists and search and play songs and albums on-demand. The Pandora service utilizes content

programming algorithms, data collected from listeners, and attributes of the music to predict user music preferences, play content suited to the tastes of each listener, and introduce each listener to music consistent with the consumer's preferences.

The Pandora service is available on iOS and Android mobile devices, web browsers, and other internet connected devices. The Pandora application is free to download and use. Our Pandora service is also available in vehicles in the United States with smartphone connectivity. Certain automakers now provide embedded streaming connectivity that supports and makes available the Pandora service in vehicles without the need for smartphone connectivity. In addition, our Pandora service is integrated into consumer electronic, voice-based devices and smart speakers.

The Pandora service is available as an ad-supported radio service, a radio subscription service (Pandora Plus), or an on-demand subscription service (Pandora Premium). Local and national advertisers deliver targeted messages to our Pandora listeners on the ad-supported service.

#### Ad-Supported Radio Service

Our Pandora business offers an ad-supported radio service which allows listeners to access our catalog of music, comedy, live streams and podcasts through personalized stations. This service is free across all platforms and generates stations specific to each listener. Each listener can personalize their stations by adding variety to the content.

Listeners of the ad-supported service are provided with the option to temporarily access on-demand listening, including certain features of the Pandora Premium service. We refer to this temporary access as "Premium Access".

# Subscription Radio Service (Pandora Plus)

Our Pandora business offers Pandora Plus - an ad-free, subscription version of the radio service that includes options for replaying songs, skipping songs, offline listening, and higher quality audio on supported devices. Content provided to each listener of Pandora Plus is more tailored when the listener interacts more with the platform. Premium Access is also available to Pandora Plus listeners.

# On-Demand Subscription Service (Pandora Premium)

Our Pandora business offers Pandora Premium - an on-demand subscription service that combines the radio features of Pandora Plus with an on-demand experience. The on-demand experience provides listeners with the ability to search, play and collect songs and albums, download content for offline listening, build playlists, listen to curated playlists and share playlists on social networks. Listeners can also create partial playlists that Pandora can complete based on the listener's activity. Listeners through mobile devices have access to customized profiles which identify information specific to each listener such as recent favorites, playlists and thumbs.

Pandora Premium incorporates social networking features including a centralized stream where listeners can view the music that their social connections are experiencing and provide and receive recommendations for songs, albums and playlists. Pandora Premium also includes a "share" feature where consumers can share their stations, songs, albums, podcasts or playlists through social media, messaging applications and email.

## Advertising Revenue

Pandora's primary source of revenue is the sale of audio, display and video advertising for connected device platforms, including computers and mobile devices. Our Pandora business maintains a portfolio of proprietary advertising technologies which include order management, advertising serving and timing, native advertising formats, targeting and reporting. Pandora provides advertisers with the ability to target and connect with listeners based on various criteria including age, gender, geographic location and content preferences. Our Pandora business also has agreements to sell the available advertising inventory in the United States for SoundCloud, one of the world's largest open audio platforms, and other third parties.

## Stitcher

Stitcher licenses from creators original podcasts and operates content networks. Stitcher also provides podcast advertising services that generate revenue from approximately 400 shows and offers a mobile app listening platform where consumers can stream the latest in news, sports, talk, and entertainment on demand.

Stitcher earns revenue by distributing advertising on certain owned and operated podcasts as well as those created by third parties, including placement based on an advertiser's desired target audience, and from the sale of advertising on its licensed podcasts and podcasts offered within the Stitcher app. Stitcher creates and distributes original podcasts licensed from third parties through platforms such as its Stitcher app and the iPhone podcast app.

Stitcher also earns subscription revenue from its Stitcher Premium subscription service. Users pay a monthly or annual fee for access on Stitcher Premium to premium content and ad-free archived podcast episodes.

#### AdsWizz

Through its AdsWizz subsidiary, our Pandora business is a leader in digital audio advertising technology. AdsWizz operates a digital audio advertising market with an end-to-end technology platform, including a digital audio software suite of solutions that connect audio publishers to the advertising community. AdsWizz offers a range of products -- from dynamic ad insertion to advanced programmatic platforms to innovative new audio formats. AdsWizz's advertising technology also includes ad campaign monitoring tools and other audio advertising products, such as audio formats that enable consumers to trigger an action while listening to an ad as well as other personalization-based technology.

AdsWizz's technology is employed by Pandora in its ad-supported business as well as by third party customers. AdsWizz's third party customers include well-known music platforms, podcasts and broadcasting groups worldwide.

## Simplecast

Pandora, through its Simplecast business, also offers a podcast management and analytics platform. Simplecast complements AdsWizz's advertising technology platform, allowing the company to offer podcasters a solution for management, hosting, analytics and advertising sales.

#### Competition

We face significant competition for listeners and advertisers in our Sirius XM business and our Pandora business, including from providers of radio and other audio services.

#### Competition for Subscribers and Listeners

Traditional AM/FM Radio

Our Sirius XM services and Pandora services compete with traditional AM/FM radio. Traditional AM/FM radio has a well-established demand for its services and offers free broadcasts paid for by commercial advertising rather than by subscription fees. Many radio stations offer information programming of a local nature, such as local news and sports. The availability of traditional free AM/FM radio may reduce the likelihood that customers would be willing to pay for our subscription services. Several traditional radio companies own large numbers of radio stations and other media properties, such as podcast networks.

Streaming and On-Demand Competitors

Streaming and on-demand services, including Amazon Prime, Apple Music, Spotify and YouTube, compete with our Sirius XM and Pandora services. Major online providers make high fidelity digital streams available at no cost or, in some cases, for less than the cost of a satellite radio subscription. Certain of these services include advanced functionality, such as personalization and customization and allow the user to access large libraries of content. These services, in some instances, are also offered through devices sold by the service providers including Apple, Google and Amazon. For some consumers, these services compete with our services, at home, in vehicles, and wherever audio entertainment is consumed.

Advanced In-Dash Infotainment Systems

Nearly all automakers have deployed integrated multimedia systems in dashboards, including Apple CarPlay and Android Auto. These systems combine control of audio entertainment from a variety of sources, including AM/FM/HD radio broadcasts, satellite radio, streaming radio, smartphone applications and stored audio, with navigation and other advanced applications. Streaming radio and other data are typically connected to the system through an Internet-enabled smartphone or wireless modem installed in the vehicle, and the entire system may be controlled by touchscreen or voice recognition. These systems enhance the attractiveness of Internet-based competitors by making such applications more prominent, easier to access, and safer to use in vehicles.

#### Direct Broadcast Satellite and Cable Audio

A number of providers offer specialized audio services through either direct broadcast satellite or cable audio systems. These services are targeted to fixed locations, mostly in-home, but also include mobile entertainment. The radio service offered by direct broadcast satellite and cable audio is often included as part of a package of digital services with video service, and video customers generally do not pay an additional monthly charge for the audio service. In addition, other services offered by these providers, such as cable television, on-demand video streaming, and interactive video games compete with our services to the extent they utilize existing or potential users' and listeners' time that could otherwise be allocated to the use of our Sirius XM or Pandora services.

# Other Digital Media Services

The audio entertainment marketplace continues to evolve rapidly, with a steady emergence of new media platforms that compete with both our Sirius XM and Pandora services now or that could compete with those services in the future.

#### Traffic Services

For our Sirius XM business, a number of providers compete with our traffic services, particularly by smartphones offering GPS mapping with sophisticated data-based turn navigation.

# Connected Vehicle Services

Our Sirius XM connected vehicle services business operates in a highly competitive environment and competes with several providers as well as with products being developed for vehicles by automakers and other third parties. OnStar, a division of General Motors, also offers connected vehicle services in GM vehicles. Wireless devices, such as mobile phones, are also competitors. We compete against other connected vehicle service providers for automaker arrangements on the basis of innovation, service quality and reliability, technical capabilities and system customization, scope of service, industry experience, past performance and price.

### Competition for Advertisers

Our competition for advertisers includes large scale online advertising platforms such as Amazon, Facebook and Google; traditional media companies such as television broadcasters and national print outlets; broadcast radio providers; podcast distributors and networks; and companies in the broadcast radio market. We compete against these providers for advertisers on the basis of several factors, including advertisers' overall budgets, perceived return on investment, effectiveness and relevance of our advertising platforms, price, delivery of large volumes or precise types of advertisements to targeted demographics, transactional capabilities and reporting capabilities.

The online advertising marketplace continues to evolve rapidly, particularly with the introduction of new digital advertising technologies and expanding capabilities of larger internet companies.

# **Government Regulation**

#### General

We are subject to a number of foreign and domestic laws and regulations relating to consumer protection, information security and data protection. There are several States that require specific information security controls to protect certain types of information and specific notifications to consumers in the event of a security breach that compromises certain categories of personal information. Certain of our services are also subject to laws in the United States and abroad pertaining to privacy of user data and other information, including the California Consumer Protection Act and the European General Data Protection Regulation. Our Privacy Policies and customer agreements describe our practices pertaining to the foregoing.

We believe we comply with all of our obligations under all applicable laws and regulations.

## **Our Sirius XM Business**

As operators of a privately-owned satellite system, we are regulated by the FCC under the Communications Act of 1934, principally with respect to:

- the licensing of our satellite systems;
- · preventing interference with or to other users of radio frequencies; and

compliance with FCC rules established specifically for U.S. satellites and satellite radio services.

Any assignment or transfer of control of our FCC licenses must be approved by the FCC. The FCC's order approving our merger with XM Satellite Radio Holdings Inc. in July 2008 requires us to comply with certain voluntary commitments we made as part of the FCC merger proceeding. We believe we comply with those commitments.

In 1997, we were the winning bidders for FCC licenses to operate a satellite digital audio radio service and provide other ancillary services. Our FCC licenses for our Sirius satellites expire in 2022 and 2025. Our FCC licenses for our XM satellites expire in 2022 and 2026. We anticipate that, absent significant misconduct on our part, the FCC will renew our licenses to permit operation of our satellites for their useful lives, and grant licenses for any replacement satellites.

In some areas, we have installed terrestrial repeaters to supplement our satellite signal coverage. The FCC has established rules governing terrestrial repeaters and has granted us a license through 2027 to operate our repeater network.

In certain cases, we obtain FCC certifications for satellite radios, including satellite radios that include FM modulators. We believe our radios that are in production comply with all applicable FCC rules.

We are required to obtain export licenses or other approvals from the United States government to export certain equipment, services and technical data related to our satellites and their operations. The transfer of such equipment, services and technical data outside the United States or to foreign persons is subject to strict export control and prior approval requirements from the United States government (including prohibitions on the sharing of certain satellite-related goods and services with China).

Changes in law or regulations relating to communications policy or to matters affecting our services could adversely affect our ability to retain our FCC licenses or the manner in which we operate.

# **Copyrights to Programming**

In connection with our businesses, we must enter into royalty arrangements with two sets of rights holders: holders of musical compositions copyrights (that is, the music and lyrics) and holders of sound recordings copyrights (that is, the actual recording of a work). Our Sirius XM business and our Pandora business use both statutory and direct music licenses as part of their businesses. We license varying rights - such as performance and mechanical rights - for use in our Sirius XM and Pandora businesses based on the various radio and interactive services they offer. Set forth below is a brief overview of the music composition and sound recording licenses employed by our Sirius XM and Pandora businesses. These music licensing arrangements are complex and the description below is only a summary of these complicated licensing schemes.

## Musical Compositions: Performance Rights and Mechanical Rights

The holders of performance rights in musical compositions, generally songwriters and music publishers, are represented by performing rights organizations such as the American Society of Composers, Authors and Publishers ("ASCAP"), Broadcast Music, Inc. ("BMI"), SESAC, Inc. ("SESAC") and Global Music Rights LLC ("GMR"). These organizations negotiate fees with copyright users, collect royalties and distribute them to the rights holders.

The holders of the mechanical rights in musical compositions, generally songwriters and music publishers, have traditionally licensed these rights through the statutory license set forth in Section 115 of the United States Copyright Act; however, mechanical rights can also be licensed directly.

The changing market for musical compositions may have an adverse effect on our Sirius XM business and our Pandora business, including increasing our costs and limiting the musical works available to us.

Sirius XM Business. We have arrangements with ASCAP, BMI, SESAC, and GMR to license the musical compositions we perform on our satellite radio and streaming services. Our Sirius XM business does not require a mechanical license.

Pandora Business. We have arrangements with ASCAP, BMI, SESAC, GMR and a variety of other copyright owners to license the musical compositions performance rights we use on our Pandora services. For our Pandora ad-supported radio service, certain copyright holders receive as a performance royalty their usage-based and ownership-based share of a royalty pool equal to 21.5% of the content acquisition costs that we pay for sound recordings on our ad-supported service and others receive a fixed fee.

Pandora must also license reproduction rights, which are also referred to as mechanical rights, to offer the interactive features of the Pandora services. For our Pandora subscription services, copyright holders receive payments for these rights at the rates determined in accordance with the statutory license set forth in Section 115 of the United States Copyright Act. In January 2018, the Copyright Royalty Board (the "CRB") set a rate structure for the five-year period commencing January 1, 2018 and ending on December 31, 2022. The rate was 14.2% of revenues or 25.2% of record label payments in 2021. The rate was scheduled to increase over the five-year period to 15.1% of revenues or 26.2% of record label payments by 2022.

In August 2021, the United States Court of Appeals for the District of Columbia Circuit concluded that the CRB failed to provide adequate notice of the rate structure it adopted, failed to explain its rejection of a past settlement agreement as a benchmark for going forward, and never identified the source of its asserted authority to substantively redefine a material term of its initial determination. For these reasons, the Court of Appeals overturned the CRB's adopted rate structure and percentage rates and remanded the proceeding to the CRB for further proceedings. The CRB has implemented proceedings to consider and address the Court of Appeals' decision.

#### Sound Recordings

Operators of a non-interactive satellite radio or streaming service are entitled to license sound recordings under the statutory license contained in Section 114 of the United States Copyright Act (the "statutory license"). Under the statutory license, we may negotiate royalty arrangements with the owners of sound recordings or, if negotiation is unsuccessful, the royalty rate is established by the CRB. Sound recording rights holders, typically large record companies, are primarily represented by SoundExchange, Inc. ("SoundExchange"), an organization which negotiates licenses, and collects and distributes royalties on behalf of record companies and performing artists.

Interactive streaming services, such as Pandora Plus and Pandora Premium, do not qualify for the statutory license and the services must negotiate direct license arrangements with the owners of copyrights in sound recordings.

Sirius XM Business. For the ten-year period commencing January 1, 2018 and ending on December 31, 2027, the CRB set the royalty rate payable by us under the statutory license covering the performance of sound recordings over our Sirius XM satellite radio service, and the making of ephemeral (server) copies in support of such performances, to be 15.5% of gross revenues, subject to exclusions and adjustments. The revenue subject to royalty includes subscription revenue from our U.S. satellite digital audio radio subscribers, and advertising revenue from channels other than those channels that make only incidental performances of sound recordings. The rates and terms permit us to reduce the payment due each month for those sound recordings directly licensed from copyright owners and exclude from our revenue certain other items, such as royalties paid to us for intellectual property, sales and use taxes, bad debt expense and generally revenue attributable to areas of our business that do not involve the use of copyrighted sound recordings.

In 2021, as a result of the CRB ruling discussed below we paid a per performance rate for the streaming of certain sound recordings of \$0.0026 on our Sirius XM streaming service which increased from \$0.0024 in 2020.

Pandora Business. For our Pandora business, we have entered into direct license agreements with major and independent music labels and distributors for a significant majority of the sound recordings that stream on the Pandora ad-supported service, Pandora Plus and Pandora Premium.

For sound recordings that we stream and for which we have not entered into a direct license agreement with the sound recording rights holders, the sound recordings are streamed pursuant to the statutory license, and applicable rates thereunder, set by the CRB. Sound recordings subject to the statutory license can only be played through our radio services and not through services that are offered on-demand or offline or through any replay or additional skip features.

In June 2021, the CRB issued its initial determination regarding the royalty rates payable by us under the statutory license by which webcasters perform sound recordings via digital transmission over the internet and make ephemeral (server) copies of those recordings during the five-year period starting January 1, 2021 and ending on December 31, 2025. Because the proceeding focuses on setting statutory rates for non-interactive online music streaming (commonly identified as "webcasting"), the proceeding set the rates that our Pandora business pays for statutorily licensed music streaming on its free, ad-supported service (and for the non-interactive music streaming that occur on its subscription tiers), and that our Sirius XM business pays for music streaming on its subscription internet radio service.

The proceeding did not set the rates that we pay for our other music offerings (such as our satellite radio or business establishment services) and does not affect the rates we pay music publishers for our services, which are covered under different licenses. The statutory rates set in this proceeding will, however, affect the amount we pay for streaming on Pandora

under certain of its direct licenses with sound recording copyright owners (i.e., record companies). The royalty rates under many of those direct licenses, which cover a large majority of the sound recordings that we perform on Pandora, are indexed to the statutory rates established in this proceeding.

Under the terms of the CRB's decision, the statutory royalty rate in 2021 was \$0.0021 per performance for non-subscription transmissions (such as offered by the Pandora ad-supported business) and \$0.0026 per performance for subscription transmissions (such as offered by the Sirius XM internet radio service). These rates for 2021 were an approximate 17% increase in the rates for non-subscription transmissions and an approximate 8% increase in the rates for subscription transmissions, in each case over the rates in effect during 2020. Rates for the remainder of the five-year period are subject to adjustment each year by the CRB to reflect any changes occurring in the cost of living as determined by the most recent Consumer Price Index for All Urban Consumers.

Prior to the enactment of the Orrin G. Hatch-Bob Goodlatte Music Modernization Act in October 2018, our rights to perform certain sound recordings that were fixed before February 15, 1972 were governed by state law. We still face a class action lawsuit brought by plaintiffs who allege that Pandora violated their alleged exclusive copyright ownership rights to the reproduction and public performance of sound recordings created prior to February 15, 1972. See "Item 3. Legal Proceedings" of this Annual Report on Form 10-K for information on this action.

#### **Trademarks**

#### Sirius XM Business

We have registered, and intend to maintain, the trademarks "Sirius", "XM", "SiriusXM" and "SXM" with the United States Patent and Trademark Office in connection with the services we offer. We are not aware of any material claims of infringement or other challenges to our right to use the "Sirius", "XM", "SiriusXM" or "SXM" trademarks in the United States. We also have registered, and intend to maintain, trademarks for the names of certain of our channels. We have also registered the trademarks "Sirius", "XM" and "SiriusXM" in Canada. We have granted a license to use certain of our trademarks in Canada to Sirius XM Canada.

#### Pandora Rusiness

We have registered, and intend to maintain, the trademarks "Pandora," "Ampcast" and "Music Genome Project," in addition to a number of other Pandora logos and marks, with the United States Patent and Trademark Office in connection with the services we offer. We also have registered the trademark "Pandora" in Australia, Canada, Chile, the European Union, India, Israel, Mexico, New Zealand, Switzerland, Taiwan and other countries, and the trademark "Music Genome Project" in Australia, Canada, China and New Zealand.

#### **Human Capital Resources**

#### General

As of December 31, 2021, we had 5,590 full-time and part-time employees, the overwhelming majority of which were full-time employees. During 2021, our workforce decreased by approximately 2.4% compared to the prior year, and our core voluntary full-time employee turnover rate was approximately 12.6%.

Our business relies on our ability to attract and retain talented employees. To attract and retain talent, we strive to create a diverse, inclusive and supportive workplace, with opportunities for our employees to grow and develop in their careers, supported by competitive compensation, benefits and health and wellness programs, and by programs that build connections between our employees and their communities.

# Corporate Culture

We are focused on creating a corporate culture of integrity and respect, with the goal of working together to drive our business to be creative, innovative and competitive. To achieve these objectives, we have adopted and regularly communicate to our employees the following core values, which we call "AMPLIFY":

- Applaud and encourage new thinking
- · Move forward and be purposeful in our desire to win
- Prioritize honesty, integrity and respectful communication

- Lean on each other and learn from one another
- Invest in our actions and commit to the follow through
- Find ways to give back by focusing on community and feeding your individuality
- You Matter. We embrace our differences, empower each other and include everyone

We operate a performance-based environment where results matter and financial discipline is enforced. We have tried to create a highly collaborative culture in which employees feel a sense of pride that their input is sought after and valued. At the same time, we believe in holding individuals accountable and have tried to create a culture in which employees "do what they say they are going to do." We believe that our culture is a long-term competitive advantage for us, fuels our ability to execute and is a critical underpinning of our employee talent strategy. The Nominating, Environmental, Social and Governance Committee of our Board of Directors oversees our management continuity planning process, and reviews and evaluates succession plans relating to our Chief Executive Officer and other executive officers.

#### Diversity, Equity and Inclusion

We believe that a diverse workforce is critical to our success. We cultivate an inclusive environment where human differences are valued, respected, supported and amplified. We have taken actions to recruit, retain, develop and advance a diverse and talented workforce. Our diversity, equity and inclusion efforts are led by our Senior Vice President, Head of Diversity, Equity & Inclusion. This position regularly reports to our Chief Executive Officer, works with our executive officers and provides updates to our Board of Directors. The charter for the Nominating, Environmental, Social and Governance Committee of our Board of Directors requires such committee to review and make recommendations, as the committee deems appropriate, regarding the composition and size of the Board of Directors in order to ensure the Board of Directors has the requisite expertise and its membership consists of persons with sufficiently diverse and independent backgrounds.

We are focused on increasing women and minority representation at all levels of our organization. We recruit talent in diverse communities, including by engaging as a sponsor of professional conferences focused on diverse talent. We have created a program, called Pathways, that provides recent graduates of Historically Black Colleges and Universities with entry-level full-time opportunities. We also have agreements with third parties designed to offer leadership development for Black, Latinx, Native American and Asian employees. Additionally, we provide a mentoring program to help underrepresented employees benefit from coaching, guidance, and feedback. We have five employee resource groups, including groups supporting Women, People of Color (African Americans, Latinx, Asian and Hispanic), Veterans, the LGBTQIA+ community and employees with disabilities.

We have implemented a broad set of anti-harassment and discrimination policies designed to protect against discrimination based upon sex, gender, race, color, religion/religious creed, national origin, ancestry, physical or mental disability, genetic information, age, marital status, pregnancy, sexual orientation, gender identity, gender expression, sex stereotype, transgender, immigration status, military and protected veteran status, medical condition, or any basis prohibited under federal, state or local law. We also provide regular training and guidance to our workforce regarding diversity, equity and inclusion. In 2021, we launched "Can We Talk?" an initiative aimed at increasing cultural awareness and promoting dialogue and "Conscious Inclusion" a facilitator-led training required for all of our full-time U.S. based employees. Conscious Inclusion enables employees to explore bias and its impact, learn how it translates to reactions and behaviors towards differences, and is designed to promote inclusive behaviors in our workplace.

We also periodically request our employees to voluntarily self-identify personal information related to gender, race, ethnicity, veteran and disability status. This information about the demographics of our employee population allows us to assess and evaluate our diversity, equity and inclusion efforts. We also comply with the FCC's Equal Employment Opportunity ("EEO") rules, including making our EEO reports publicly available.

# Health, Safety and Wellness

We are committed to the health, safety and wellness of our employees. We provide our employees and their families with access to a variety of health and wellness programs, including benefits that support their physical and mental health.

In response to the COVID-19 pandemic, we implemented changes that we consider to be in the best interest of our employees, as well as the communities in which we operate, and which comply with government regulations. As a result of the COVID-19 pandemic, the vast majority of our employees worked from home in 2021. We have implemented additional safety

measures for employees continuing on-site work. We believe we have been able to preserve our business continuity without sacrificing our commitment to keeping our employees safe during the COVID-19 pandemic.

# Compensation and Benefits

We operate in a highly competitive and technologically challenging environment. We provide competitive compensation and benefits programs for our employees. In addition to salaries, these programs (which vary by employee level and by the country where the employees are located) include, among other items, bonuses, equity-based compensation awards, a 401(k) plan and a non-qualified deferred compensation plan, healthcare and insurance benefits, health savings and flexible spending accounts, paid time off, paid parental leave, advocacy resources, flexible work schedules and employee assistance programs.

## **Talent Development**

We provide numerous training opportunities for our employees, with a focus on continuous learning and development and methodologies to manage performance, provide feedback and develop talent. We also have an internal digital workplace which provides employees with quick access to learning resources that cover a variety of topics.

Our talent development programs attempt to provide employees resources to achieve career goals and build management and leadership skills. We offer mentoring programs, management training and leadership sessions to support the professional growth of our employees.

## Building Connections — With Each Other and our Communities

Building connections between our employees, their families and our communities can, in our view, create a more meaningful, fulfilling and enjoyable workplace. Through our engagement programs, employees can pursue their interests and hobbies, and connect to each other and to volunteering and giving opportunities.

Our corporate giving and volunteering programs encourage employees to give to the causes most meaningful to them. We have a charitable matching program which offers employees a dollar for dollar match on their charitable contributions up to a specific cap. In addition, full-time employees are eligible to receive five days of paid time off to volunteer with charitable organizations of their choice. During 2021, over 370 employees volunteered almost 5,000 hours, while over 700 employees utilized our charitable matching program, benefiting almost 1,300 charitable organizations.

In 2020, we contributed \$25 million to a donor advised fund to support our charitable contributions, an effort we call SiriusXM Cares. In 2021, SiriusXM Cares contributed to a variety of organizations which promote social equality, education, hiring, or combat racial injustice, including The Apollo Theater, Save The Music, Huston-Tillotson University, Asian Americans Advancing Justice, South Asian Americans Leading Together, the Alliance for Women in Media, the Human Rights Campaign, TASH (an international advocacy association of people with disabilities, their family members, other advocates, and people who work in the disability field), the League of United Latin American Citizens, the Native American Rights Fund, The Warrior Alliance, the AutoNation Foundation and the St. Thomas Aquinas College Social Justice Center.

## Corporate Information and Available Information

Our executive offices are located at 1221 Avenue of the Americas, 35th floor, New York, New York 10020 and our telephone number is (212) 584-5100. Our internet address is www.siriusxm.com. Our annual, quarterly and current reports, and any amendments to those reports, filed or furnished pursuant to Section 13(a) or 15(d) of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), may be accessed free of charge through our website as soon as reasonably practicable after we have electronically filed or furnished such material with the SEC. The SEC maintains an Internet site (http://www.sec.gov) that contains reports, proxy and information statements and other information regarding issuers that file electronically with the SEC. Siriusxm.com (including any other reference to such address in this Annual Report) is an inactive textual reference only, meaning that the information contained on or accessible from the website is not part of this Annual Report on Form 10-K and is not incorporated in this report by reference. We may use our website as a distribution channel of material company information. Financial and other important information regarding us is routinely posted on and accessible through our website at https://www.siriusxm.com. In addition, you may automatically receive email alerts and other information about us when you enroll your email address by visiting the "Email Alerts" section under the "Shareholder Services" heading at http://investor.siriusxm.com/investor-overview.

#### Information About Our Executive Officers

Certain information regarding our executive officers as of January 28, 2022 is provided below:

Name	Age	Position
Jennifer C. Witz	53	Chief Executive Officer
Scott A. Greenstein	62	President, Chief Content Officer
Dara F. Altman	63	Executive Vice President and Chief Administrative Officer
Patrick L. Donnelly	60	Executive Vice President, General Counsel and Secretary
Joseph Inzerillo	48	Chief Product and Technology Officer
Sean S. Sullivan	54	Everytive Vice President and Chief Financial Officer

Jennifer C. Witz has served as our Chief Executive Officer since January 1, 2021. From March 2019 through December 2020, she was our President, Sales, Marketing and Operations. From August 2017 until March 2019 she was our Executive Vice President, Chief Marketing Officer. Ms. Witz joined us in March 2002 and has served in a variety of senior financial and operating roles. Before joining Sirius XM, Ms. Witz was Vice President, Planning and Development, at Viacom Inc., a global media company, and prior to that she was Vice President, Finance and Corporate Development, at Metro-Goldwyn-Mayer, Inc., an entertainment company focused on the production and global distribution of film and television content. Ms. Witz began her career in the Investment Banking Department at Kidder, Peabody & Co Inc. She is a member of the board of directors of LendingTree, Inc., a leading online marketplace that connects consumers with financial products, and serves on its compensation committee.

Scott A. Greenstein has served as our President and Chief Content Officer since May 2004. Prior to May 2004, Mr. Greenstein was Chief Executive Officer of The Greenstein Group, a media and entertainment consulting firm. From 1999 until 2002, he was Chairman of USA Films, a motion picture production, marketing and distribution company. From 1997 until 1999, Mr. Greenstein was Co-President of October Films, a motion picture production, marketing and distribution company. Prior to joining October Films, Mr. Greenstein was Senior Vice President of Motion Pictures, Music, New Media and Publishing at Miramax Films, and held senior positions at Viacom Inc.

Dara F. Altman has served as our Executive Vice President and Chief Administrative Officer since September 2008. From January 2006 until September 2008, Ms. Altman served as Executive Vice President, Business and Legal Affairs, of XM. Ms. Altman was Executive Vice President of Business Affairs for Discovery Communications from 1997 through 2005. From 1993 to 1997, Ms. Altman served as Senior Vice President and General Counsel of Reiss Media Enterprises, which owned Request TV, a national pay-per-view service. Before Request TV, Ms. Altman served as counsel for Home Box Office. Ms. Altman started her career as an attorney at the law firm of Willkie Farr & Gallagher LLP.

Patrick L. Donnelly has served as our Executive Vice President, General Counsel and Secretary, since May 1998. From June 1997 to May 1998, he was Vice President and Deputy General Counsel of ITT Corporation, a hotel, gaming and entertainment company that was acquired by Starwood Hotels & Resorts Worldwide, Inc. in February 1998. From October 1995 to June 1997, he was assistant general counsel of ITT Corporation. Prior to October 1995, Mr. Donnelly was an attorney at the law firm of Simpson Thacher & Bartlett LLP.

Joseph Inzerillo has served as our Chief Product and Technology Officer since January 2022. Prior to that, Mr. Inzerillo was the Executive Vice President & Chief Technology Officer – Disney Streaming since 2017. Prior to that, Mr. Inzerillo held a variety of senior technology positions at Major League Baseball and its subsidiaries. From 2015 to 2017, Mr. Inzerillo served as Executive Vice President & Chief Technology Officer of BAMTech Media, a distributor of direct-to-consumer video and a provider of video streaming solutions. Mr. Inzerillo was the Chief Technology Officer of Major League Baseball Advanced Media, LP from 2014 through 2015, and the Senior Vice President of Multimedia Distribution of that entity from 2006 to 2014. During his tenure at Major League Baseball Advanced Media, LP, Mr. Inzerillo also served as Chief Technology Officer for Major League Baseball. Mr. Inzerillo started his career with the Chicago White Sox and was the Chief Technology Officer of the United Center, home of the Chicago Bulls and Chicago Blackhawks.

Sean S. Sullivan has served as our Executive Vice President and Chief Financial Officer since October 2020. From June 2011 to October 2020, he was the Executive Vice President and Chief Financial Officer of AMC Networks Inc., a global entertainment company. From September 2010 to June 2011, he was the Chief Corporate Officer of Rainbow Media Holdings LLC, the predecessor of AMC Networks Inc. and then a subsidiary of Cablevision Systems Corp. Prior to that, Mr. Sullivan was Chief Financial Officer of HiT Entertainment, a children's entertainment company, from 2009 to 2010; the Chief Financial Officer and President of the Commercial Print and Packaging division of Cenveo, Inc., a diversified manufacturing company

focused on print-related products, from 2005 to 2008; and Executive Vice President and Chief Financial Officer of Spencer Press, Inc., a catalogue printing company, from 2004 to 2005. He is a member of the board of directors of Acushnet Holdings Corp., a leader in the design, development, manufacturing and distribution of golf products, and serves on its nominating and corporate governance committee and is the chair of its audit committee.

#### ITEM 1A. RISK FACTORS

In addition to the other information in this Annual Report on Form 10-K, including the information under the caption Item 1. Business "Competition," the following risk factors should be considered carefully in evaluating us and our business. This Annual Report on Form 10-K contains forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. Actual results and the timing of events could differ materially from those projected in forward-looking statements due to a number of factors, including those set forth below and elsewhere in this Annual Report on Form 10-K. See "Special Note About Forward-Looking Statements" following this Item 1A. Risk Factors.

# We have been, and may continue to be, adversely affected by supply chain issues as a result of the global semiconductor supply shortage.

The global semiconductor supply shortage is having wide-ranging effects across multiple industries, including direct and indirect effects on our business. We have experienced, and may continue to experience, delays in securing certain application specific integrated circuits (which are commonly referred to as "chipsets") that are essential components of our satellite radios. In addition, automakers are experiencing, and may continue to experience, delays in securing certain chipsets that are essential components of new vehicles for a variety of reasons, including due to closures at semiconductor manufacturing facilities. All of these affected automakers manufacture and sell vehicles that include our satellite radios. For example, some automobile plants in North America and elsewhere have halted or reduced vehicle production due to the shortage of semiconductors used in the production of their vehicles. As a result, the semiconductor supply shortage has had, and may continue to have, an impact on new vehicle production and deliveries, which in turn may affect our subscriber acquisition efforts.

### The ongoing COVID-19 pandemic has introduced significant uncertainty to our business.

There is significant uncertainty around disruptions related to the ongoing COVID-19 pandemic and its continuing impact on the global economy. The COVID-19 pandemic has also introduced significant uncertainties to our business, including possible changes to our sales and marketing practices as we react to shifts in the volume and mix of auto sales and the potential loss of sales and orders in our advertising business. The extent to which the COVID-19 pandemic impacts our future results depends on future developments, which are highly uncertain and cannot be predicted with certainty, including new information which may emerge concerning the severity of the COVID-19 pandemic in the United States, actions taken to contain it or treat its impact, labor market constraints, the availability and efficacy of vaccinations, testing and vaccination mandates and the resurgence of COVID-19 and its variants (including the delta and omicron variants) that are occurring. Another broad shutdown of businesses, either in the United States or globally, as a result of the COVID-19 pandemic would likely have an adverse effect on our business given the continuing weaknesses associated with the supply chain for new vehicles and the strong demand and inventory constraints for used vehicles.

We are monitoring and continue to assess the ongoing effects of the COVID-19 pandemic on our businesses and operations. Almost all of employees have been working remotely since the COVID-19 pandemic began in March 2020. The impact of these remote arrangements on our workforce are impossible to assess or predict. Importantly, the continuing effects of the COVID-19 pandemic may also have a material adverse effect on third parties upon which we rely, and our ability to assess those effects in any meaningful manner are difficult at this time.

## Risks Relating to our Business and Operations

# We face substantial competition and that competition is likely to increase over time.

We compete for the time and attention of our listeners with other content providers on the basis of a number of factors, including quality of experience, relevance, acceptance and perception of content quality, ease of use, price, accessibility, brand awareness, reputation and, in the case of our ad-supported Pandora service, perception of ad load, features and functionality. Our ability to attract and retain subscribers and listeners depends on our success in creating and providing popular or unique programming. A summary of certain services that compete with us is contained in the section entitled "Item 1. Business - Competition" of this Annual Report on Form 10-K.

Our subscribers and listeners can obtain similar content for free through terrestrial radio stations, YouTube and other internet services. We also compete for the time and attention of our listeners with providers of other in-home and mobile entertainment services, and we compete for advertising sales with large scale online advertising platforms, such as Amazon, Facebook and Google, and with traditional media outlets.

Our streaming services also compete for listeners on the basis of the presence and visibility of our apps, which are distributed via app stores operated by Apple and Google. We face significant competition for listeners from these companies, which also promote their own music and content. In addition, our competitors' streaming products may be pre-loaded or integrated into consumer electronics products or automobiles more broadly than our streaming products, creating a visibility advantage. If we are unable to compete successfully for listeners against other media providers, then our business may suffer. Additionally, the operator of an app store may reject our app or amend the terms of their license in a way that inhibits our ability to distribute our apps, negatively affects our business, or limits our ability to increase subscribers and listeners.

Competition could result in lower subscription, advertising or other revenue and an increase in our expenses and, consequently, lower our earnings and free cash flow. We cannot assure you we will be able to compete successfully with our existing or future competitors or that competition will not have an adverse impact on our operations and financial condition.

# If our efforts to attract and retain subscribers and listeners, or convert listeners into subscribers, are not successful, our business will be adversely affected.

Our business will be adversely affected if we are unable to attract new subscribers and listeners and retain our current subscribers and listeners.

Our ability to increase the number of subscribers and listeners to our services, retain our subscribers and listeners or convert listeners into subscribers, is uncertain and subject to many factors, including:

- the price of our service;
- the ease of use of our service;
- the effectiveness of our marketing programs;
- with respect to our Sirius XM service, the sale or lease rate of new vehicles in the United States;
- the rate at which our self-pay subscribers to our Sirius XM service buy and sell new and used vehicles in the United States;
- our ability to convince owners and lessees of new and used vehicles that include satellite radios to purchase subscriptions to our Sirius XM service;
- the perceived value of our programming and the packages and services we offer;
- our ability to introduce features in a manner that is favorably received by consumers;
- · our ability to keep up with rapidly evolving technology and features in audio entertainment;
- · our ability to respond to evolving consumer tastes; and
- · actions by our competitors, such as Spotify, Apple, Google, Amazon, Facebook and other audio entertainment and information providers.

# We engage in extensive marketing efforts and the continued effectiveness of those efforts is an important part of our business.

We engage in extensive marketing efforts across a broad range of media to attract and retain subscribers and listeners to our services. We employ a wide variety of communications tools as part of our marketing campaigns, including telemarketing efforts and email solicitations. The effectiveness of our marketing efforts is affected by a broad range of factors, including creative and execution factors. Our ability to reach consumers with radio and television advertising, direct mail materials, email solicitations and telephone calls is an important part of our efforts and a significant factor in the effectiveness of our marketing. If we are unable to reach consumers through email solicitations or telemarketing, including as a result of "spam" and email filters, call blocking technologies or "do-not-call" or other marketing regulations, our marketing efforts will be adversely affected. A decline in the effectiveness of our marketing efforts could have an adverse impact on our operations and financial condition.

## We rely on third parties for the operation of our business, and the failure of third parties to perform could adversely affect our business.

Our business depends, in part, on various third parties, including:

- manufacturers that build and distribute satellite radios;
- companies that manufacture and sell integrated circuits for satellite radios;
- third-party software that we incorporate in and include with our apps and service;
- programming providers, including agreements with owners of various copyrights in music, and on-air talent;
- vendors that operate our call centers;
- vendors that have designed or built, and vendors that support or operate, other important elements of our systems, including our satellites and cloud-based systems we use:
- Apple, who distributes our apps through its App Store and who, in the case of our Pandora service, we rely on to collect fees and approve the terms of our consumer offers; and
- Google, who distributes our apps through its App Store and who, in the case of our Pandora service, we rely on to collect fees and approve the terms of our consumer offers, and who plays an important role in the fulfillment of the ads we sell on our Pandora platform.

If one or more of these third parties do not perform in a satisfactory or timely manner, including complying with our standards and practices relating to business integrity, personnel and cybersecurity, our business could be adversely affected.

The operation of our apps and service offerings could be impaired if errors occur in the third party software that we use. It is difficult for us to correct any defects in third party software because the development and maintenance of the software is not within our control. Our third party licensors may not continue to make their software available to us on acceptable terms, invest the appropriate levels of resources in their software to maintain and enhance its capabilities, or remain in business. Failure of these third party licensors could harm our streaming services.

In addition, a number of third parties on which we depend have experienced, and may in the future experience, financial difficulties or file for bankruptcy protection. Such third parties may not be able to perform their obligations to us in a timely manner, if at all, as a result of their financial condition or may be relieved of their obligations to us as part of seeking bankruptcy protection.

#### We may not realize the benefits of acquisitions or other strategic investments and initiatives.

Our strategy includes selective acquisitions, other strategic investments and initiatives in an effort to expand our business. The success of any acquisition depends upon effective integration, cultural assimilation and management of acquired businesses and assets into our operations, which is subject to risks and uncertainties, including realizing the growth potential, the anticipated synergies and cost savings, the ability to retain and attract personnel, the diversion of management's attention for other business concerns, and undisclosed or potential legal liabilities of the acquired business or assets.

We are devoting significant management attention and resources to integrate the businesses and operations of certain acquisitions. The integration process could distract our management, disrupt our ongoing business or result in inconsistencies in our services, standards, controls, procedures and policies, any of which could adversely affect our ability to maintain relationships with customers, vendors and employees or to achieve the anticipated benefits of the acquisition.

# Risks Relating to our Sirius XM Business

# A substantial number of our Sirius XM service subscribers periodically cancel their subscriptions and we cannot predict how successful we will be at retaining customers.

As part of our business, we experience, and expect to experience in the future, subscriber turnover (i.e., churn). If we are unable to retain current subscribers at expected rates, or the costs of retaining subscribers are higher than expected, our financial performance and operating results could be adversely affected.

We cannot predict how successful we will be at retaining customers who purchase or lease vehicles that include a subscription to our Sirius XM service. A substantial percentage of our Sirius XM subscribers are on discounted pricing plans and our ability to retain these subscribers or migrate them to higher priced plans is uncertain. Our discounted pricing strategy is

widely known, and this may interfere with our ability to collect our ordinary subscription prices. In addition, a substantial number of those subscribers periodically cancel their subscriptions when offered a subscription at a higher price.

#### Our ability to profitably attract and retain subscribers to our Sirius XM service as our marketing efforts reach more price-sensitive consumers is uncertain.

Our efforts to acquire subscribers purchasing or leasing used vehicles may attract price sensitive consumers. For example, consumers purchasing or leasing used vehicles may be more price sensitive than consumers purchasing or leasing new vehicles, may convert from trial subscribers to self-paying subscribers at a lower rate, and may cancel their subscriptions more frequently than consumers purchasing or leasing new vehicles. Some of our marketing efforts may also attract more price sensitive subscribers, and our efforts to increase the penetration of satellite radios in new, lower-priced vehicle lines may result in the growth of more economy-minded subscribers. In addition, over time the changing demographics of our subscriber sace, such as the expected increase in "Millennial generation customers," may increase the number of subscribers accustomed to consuming entertainment through ad-supported products. Each of these factors may harm our revenue or require additional spending on marketing efforts to demonstrate the value of our Sirius XM service.

#### Our business depends in part upon the auto industry.

A substantial portion of the subscription growth for our satellite radio service has come from purchasers and lessees of new and used automobiles in the United States, and we expect this to be an important source of subscribers for our satellite radio service in the future.

We have agreements with major automakers to include satellite radios in new vehicles, although these agreements do not require automakers to install specific or minimum quantities of radios in any given period. Our business could be adversely affected if automakers do not continue to include our Sirius XM service in their products.

Automotive production and sales are dependent on many factors, including the availability of vehicle components, consumer credit, general economic conditions, consumer confidence and fuel costs. To the extent vehicle sales by automakers decline, or the penetration of factory-installed satellite radios in those vehicles is reduced, subscriber growth for our satellite radio service may be adversely impacted.

Sales of used vehicles represent a significant source of new subscribers for our satellite radio service. We have agreements with auto dealers and companies operating in the used vehicle market to provide us with data on sales of used satellite radio enabled vehicles, including in many cases the consumer's name and address. The continuing availability of this data is important, and the loss of such data may harm our revenue and business.

# Failure of our satellites would significantly damage our business.

The lives of the satellites required to operate our Sirius XM service vary depending on a number of factors, including:

- · degradation and durability of solar panels;
- quality of construction;
- random failure of satellite components, which could result in significant damage to or loss of a satellite;
- amount of fuel the satellite consumes;
- the performance of third parties that manage the operation of our satellites; and
- damage or destruction as a result of electrostatic storms, terrorist attacks, collisions with other objects in space or other events, such as nuclear detonations, occurring
  in space.

In the ordinary course of operation, satellites experience failures of component parts and operational and performance anomalies. Components on several of our in-orbit satellites have failed, and from time to time we have experienced anomalies in the operation and performance of these satellites. These failures and anomalies are expected to continue in the ordinary course, and we cannot predict if any of these possible future events will have a material adverse effect on our operations or the life of our existing in-orbit satellites. In addition, our Sirius network of terrestrial repeaters communicates with a single third party satellite. Our XM network of terrestrial repeaters communicates with a single XM satellite. If the satellites communicating with the applicable repeater network fail unexpectedly, the services would be disrupted for several hours or longer.

Any material failure of our operating satellites could cause us to lose customers for our Sirius XM service and could materially harm our reputation and our operating results. With the exception of the insurance we have purchased covering the

launch and the first year of in-orbit operation of our SXM-8 satellite, we do not have insurance for our in-orbit satellites. Additional information regarding our fleet of satellites is contained in the section entitled "Item 1. Business - Satellites, Terrestrial Repeaters and Other Satellite Facilities" of this Annual Report on Form 10-K.

## Our Sirius XM service may experience harmful interference from wireless operations.

The development of applications and services in spectrum adjacent to the frequencies licensed to us, as well as the combination of signals in other frequencies, may cause harmful interference to our satellite radio service in certain areas of the United States. Certain operations or combination of operations permitted by the FCC in spectrum, other than our licensed frequencies, results in the loss of signal to our service, and the reception of our satellite radio service can be adversely affected in certain areas. Elimination of this interference may not be possible in all cases. In other cases, our efforts to reduce this interference may require extensive engineering efforts and additions to our terrestrial infrastructure. These mitigation efforts may be costly and take several years to implement and may not be entirely effective. In certain cases, we are dependent on the FCC to assist us in preventing harmful interference to our service.

#### Risks Relating to our Pandora Business

#### Our Pandora ad-supported business has suffered a substantial and consistent loss of monthly active users, which may adversely affect our Pandora business.

The number of monthly active users to our ad-supported Pandora business has declined consistently for several years, including in 2021, and may further contract in the future.

The size of our ad-supported listener base is an important element of our Pandora business. The decline in our listener base has resulted in fewer listener hours and available advertising spots on our Pandora service, which ultimately may result in declines in our advertising revenue, and adversely affect our Pandora business. The contraction of our ad-supported listener base also decreases the size of demographic groups targeted by advertisers, which may hurt our ability to deliver advertising in a manner that maximizes advertisers' return on investment and compete with other digital advertising platforms.

#### Our failure to convince advertisers of the benefits of our Pandora ad-supported service could harm our business.

We derive substantial revenue on our Pandora service from the sale of advertising. Our ability to attract and retain advertisers, and ultimately to sell our advertising inventory, depends on a number of factors, including:

- the number of listener hours on the Pandora ad-supported service, particularly the number of listener hours attributable to high-value demographics;
- · keeping pace with changes in technology and our competitors, some of which have significant influence over the distribution of our Pandora app;
- competing effectively for advertising with other dominant online services, such as Spotify, Google and Facebook, as well as other marketing and media outlets, some of which provide services to us that we depend upon to fulfill the advertising we sell;
- successfully competing for local radio advertising;
- demonstrating the ability of advertisements to reach targeted audiences, including the value of mobile digital advertising;
- ensuring that new ad formats and ad product offerings are attractive to advertisers and that inventory management decisions (such as changes to ad load, frequency, prominence and quality of ads that we serve listeners) do not have a negative impact on listener hours; and
- adapting to technologies designed to block the display of our ads.

Our agreements with advertisers are generally short-term and may be terminated at any time by the advertiser. Advertisers may leave us for competing alternatives at any time. Failure to demonstrate to advertisers the value of our Pandora service would result in reduced spending by, or loss of, advertisers, which would harm our revenue and business.

If we are unable to maintain revenue growth from our advertising products our results of operations will be adversely affected.

In order to effectively monetize listener hours, we must, among other things, penetrate local advertising markets and develop compelling ad product solutions.

The substantial majority of the total listening to our Pandora service occurs on mobile devices. We are engaged in efforts to continue to convince advertisers of the capabilities and value of mobile digital advertising and to direct an increasing portion of their advertising spend to our ad-supported Pandora service.

We are continuing to build our sales capability to penetrate local advertising markets, which places us in competition with terrestrial radio. We may not be able to capture an increasing share of local and audio advertising revenue, which may have an adverse impact on our future revenue.

#### Changes to mobile operating systems and browsers may hinder our ability to sell advertising and market our services.

We use shared common device identifiers that are universal in the advertising technology ecosystem, such as Apple's Identifier for Advertisers, a random device identifier assigned by Apple to a user's device. We use these common device identifiers for targeting, advertising effectiveness and measurement for the Pandora's advertising business and for Pandora's consumer marketing purposes. These common device identifiers enable us to match audiences, including with second- and third-party data providers and measurement vendors, and enhance Pandora's advertising targeting segments with additional data. In our programmatic advertising business, we use common identifiers for several important functions, such as targeting and bidding. We also use common device identifiers to evaluate the success of our Pandora brand consumer marketing campaigns.

Apple, as well as mobile operating system and browser providers, have implemented product features and plans that may adversely impact our ability to use these common identifiers and data collected in connection with these common identifiers in our Pandora business.

#### If we fail to accurately predict and play music, comedy or other content that our Pandora listeners enjoy, we may fail to retain existing and attract new listeners.

A key differentiating factor between our Pandora service and other music content providers is our ability to predict music that our listeners will enjoy. The effectiveness of our personalized playlist generating system depends, in part, on our ability to gather and effectively analyze large amounts of listener data and feedback. We may not continue to be successful in enticing listeners to our Pandora service to give a thumbs-up or thumbs-down to enough songs to effectively predict and select new and existing songs. In addition, our ability to offer listeners songs that they have not previously heard and impart a sense of discovery depends on our ability to acquire and appropriately categorize additional tracks that will appeal to our listeners' diverse and changing tastes. Many of our competitors currently have larger music and content catalogs than we offer and they may be more effective in providing their listeners with an appealing listener experience.

We also provide comedy and podcast content on our Pandora service, and we try to predict what our listeners will enjoy using technology similar to the technology that we use to generate personalized playlists for music. The risks that apply to our ability to satisfy our listeners' musical tastes apply to comedy, podcasts and other content to an even greater extent, particularly since we do not yet have as large a data set on listener preferences for comedy, podcasts and other content, and have a smaller catalog of such content as compared to music.

Our ability to predict and select music, comedy, podcasts and other content that our listeners enjoy is important to the perceived value of our Pandora service to consumers and the failure to make accurate predictions would adversely affect our ability to attract and retain subscribers and listeners, increase listener hours and sell advertising.

## Risks Relating to Laws and Governmental Regulations

# Privacy and data security laws and regulations may hinder our ability to market our services, sell advertising and impose legal liabilities.

We receive a substantial amount of data on purchasers and lessees of new and used vehicles from third parties. We use this data to market our services. We collect and use demographic and other information, including location information, from and about our listeners through the internet. Further, we and third parties use tracking technologies, including "cookies" and related technologies, to help us manage and track our listeners' interactions with our services and deliver relevant advertising.

Various federal and state laws and regulations, as well as the laws of foreign jurisdictions, govern the collection, use, retention, sharing and security of the data we receive. Privacy groups and government authorities have increasingly scrutinized the ways in which companies collect and share data, including linking personal identities and data associated with particular

users or devices with data collected through the internet, and we expect such scrutiny to increase. Alleged violations of laws and regulations relating to privacy and data may expose us to potential liability, may require us to expend significant resources in responding to and defending such allegations and claims and could in the future result in negative publicity and a loss of confidence in us by our subscribers, listeners and advertisers.

Privacy-related laws and regulations, such as the California Consumer Privacy Act and the European General Data Protection Regulation, are evolving and subject to potentially differing interpretations. Various federal and state legislative and regulatory bodies as well as foreign legislative and regulatory bodies may expand current or enact new laws regarding privacy and data security-related matters. New laws, amendments to or re-interpretations of existing laws and contractual obligations, as well as changes in our listeners' expectations and demands regarding privacy and data security, may limit our ability to collect and use consumer data. Restrictions on our ability to collect, access and harness listener data, or to use or disclose listener data or profiles that we develop using such data, could limit our ability to deliver personalized content to our listeners and offer targeted advertising opportunities to our advertisers, each of which are important to the success of our business. Increased regulation of data utilization and distribution practices could increase our costs of operation or otherwise adversely affect our business.

## Consumer protection laws and our failure to comply with them could damage our business.

Federal and state consumer protection laws, rules and regulations cover nearly all aspects of our marketing efforts, including the content of our advertising, the terms of consumer offers and the manner in which we communicate with consumers. A number of governmental authorities have commenced investigations into our consumer practices, including the manner in which we allow consumers to cancel subscriptions to our services. The nature of our business requires us to expend significant resources to try to ensure that our marketing activities comply with consumer protection laws, including laws relating to telemarketing activities and privacy. These efforts may not be successful, and we may have to expend even greater resources in our compliance efforts.

Modifications to consumer protection laws, including decisions by courts and administrative agencies interpreting these laws, could have an adverse impact on our ability to attract and retain subscribers and listeners to our services. There can be no assurance that new laws or regulations will not be enacted or adopted, preexisting laws or regulations will not be more strictly enforced or that our operations will comply with all applicable laws, which could have an adverse impact on our operations and financial condition

# Failure to comply with FCC requirements could damage our business.

We hold FCC licenses and authorizations to operate commercial satellite radio services in the United States, including satellites, terrestrial repeaters and related authorizations. The FCC generally grants licenses and authorizations for a fixed term. Although we expect our licenses and authorizations to be renewed in the ordinary course upon their expiration, there can be no assurance that this will be the case. Any assignment or transfer of control of any of our FCC licenses or authorizations must be approved in advance by the FCC.

The operation of our satellite radio systems is subject to significant regulation by the FCC under authority granted through the Communications Act of 1934 and related federal law. We are required, among other things, to operate only within specified frequencies; to coordinate our satellite radio services with radio systems operating in the same range of frequencies in neighboring countries; and to coordinate our communications links to our satellites with other systems that operate in the same frequency band.

Noncompliance by us with these requirements or other conditions or with other applicable FCC rules and regulations could result in fines, additional license conditions, license revocation or other detrimental FCC actions. There is no guarantee that Congress will not modify the statutory framework governing our services, or that the FCC will not modify its rules and regulations in a manner that would have an adverse impact on our operations.

# Risks Associated with Data and Cybersecurity and the Protection of Consumer Information

If we fail to protect the security of personal information about our customers, we could be subject to costly government enforcement actions and private litigation and our reputation could suffer.

The nature of our business involves the receipt and storage of personal information about our subscribers and listeners including, in many cases, credit and debit card information. We have a program in place to detect and respond to data security incidents. However, the techniques used to gain unauthorized access to data systems are constantly evolving and may be difficult to detect for long periods of time. We may be unable to anticipate or prevent unauthorized access to data pertaining to

our customers, including credit card and debit card information and other personally identifiable information. Our services, which are supported by our own systems and those of third-party vendors, are vulnerable to computer malware and attacks as well as to catastrophic events (such as fires, floods, hurricanes, or tornadoes), any of which could lead to system interruptions, delays, or shutdowns, causing loss of critical data or the unauthorized access to personally identifiable information.

For many companies, remote and/or hybrid in-office work arrangements resulting from the COVID-19 pandemic have made their network and communication systems more vulnerable to cyberattacks and incursions, and there has been an overall increase in both the frequency and severity of cyber incidents as such vulnerabilities have been exploited. Continued implementation of a full or partial remote work environment may subject us to a heightened and ongoing risk of cyberattacks, unauthorized access or other privacy or data security incidents, both directly as well as indirectly through third-party intermediaries, service providers and vendors that have access or other connections to our systems.

If we fail to protect the security of personal information about our customers or if an actual or perceived breach of security occurs on our systems or a vendor's systems, we could be exposed to costly government enforcement actions and private litigation and our reputation could suffer. We may also be required to expend significant resources to address these problems, including notification under various data privacy regulations, and our reputation and operating results could suffer. In addition, our subscribers and listeners, as well as potential customers, could lose confidence in our ability to protect their personal information, which could cause them to discontinue the use of our services. This loss of confidence would also harm our efforts to attract and retain advertisers, and unauthorized access to our programming would potentially create additional royalty expense with no corresponding revenue. Such events could adversely affect our results of operations. The costs of maintaining adequate protection, including insurance protection, against such threats as they develop in the future (or as legal requirements related to data security increase) could be material.

In addition, hardware, software, or applications we develop or procure from third parties may contain defects in design or manufacture or other problems that could unexpectedly compromise information security. Unauthorized parties may also attempt to gain access to our systems or facilities, or those of third parties with whom we do business, through fraud, trickery, or other forms of deceiving our employees, contractors or other agents. We may not be able to effectively control the unauthorized actions of third parties who may have access to the data we collect.

We may integrate the Pandora service with apps provided by third parties. In such case, we may not be able to control such third parties' use of listeners' data, ensure their compliance with the terms of our privacy policies, or prevent unauthorized access to, or use or disclosure of, information, any of which could expose us to potential liability and negative publicity and could cause our listeners and advertisers to discontinue use of our services.

To date, we are not aware that we have had a significant cyber-attack or breach that has had a material impact on our business or results of operations. We have implemented systems and processes intended to secure our information technology systems and prevent unauthorized access to or loss of sensitive, confidential and personal data, including through the use of encryption and authentication technologies. Additionally, we have increased our monitoring capabilities to enhance early detection and timely response to potential security anomalies.

The cyber security measures we have implemented, however, may not be sufficient to prevent all possible attacks and may be vulnerable to hacking, employee error, ransom attacks, malfeasance, system error, faulty password management or other irregularities. Further, the development and maintenance of these measures are costly and require ongoing monitoring and updating as technologies change and efforts to overcome security measures become increasingly sophisticated.

# Interruption or failure of our information technology and communications systems could impair the delivery of our service and harm our business.

We rely on systems housed at our own premises and at those of third party vendors to enable subscribers and listeners to access our Pandora and Sirius XM services in a dependable and efficient manner. Any degradation in the quality, or any failure, of our systems could reduce our revenues, cause us to lose customers and damage our brands. Although we have implemented practices designed to maintain the availability of the information technology systems we rely on and mitigate the harm of any unplanned interruptions, we cannot anticipate all eventualities. We occasionally experience unplanned outages or technical difficulties. We could also experience loss of data or processing capabilities, which could cause us to lose customers and could harm our reputation and operating results.

We rely on internal systems and external systems maintained by manufacturers, distributors and service providers to take, fulfill and handle customer service requests and host certain online activities. Any interruption or failure of our internal or external systems could prevent us from servicing customers or cause data to be unintentionally disclosed. Our services have experienced, and we expect them to continue to experience, periodic service interruptions and delays involving our own systems and those of our vendors

Our data centers and our information technology and communications systems are vulnerable to damage or interruption from natural disasters, malicious attacks, fire, power loss, telecommunications failures, computer viruses or other attempts to harm our systems. The occurrence of any of these events could result in interruptions in our services and unauthorized access to, or alteration of, the content and data contained on our systems and that these third party vendors store and deliver on our behalf.

Damage or interruption to our data centers and information technology and communications centers could expose us to data loss or manipulation, disruption of service, monetary and reputational damages, competitive disadvantage and significant increases in compliance costs and costs to improve the security and resiliency of our computer systems. The compromise of personal, confidential or proprietary information could also subject us to legal liability or regulatory action under evolving cybersecurity, data protection and privacy laws and regulations enacted by the U.S. federal and state governments or other foreign jurisdictions or by various regulatory organizations. As a result, our ability to conduct our business and our results of operations might be adversely affected.

#### Risks Associated with Certain Intellectual Property Rights

#### The market for music rights is changing and is subject to significant uncertainties.

We must maintain music programming royalty arrangements with, and pay license fees to, owners of rights in musical works in order to operate our services. Traditionally, BMI, ASCAP and SESAC have negotiated for these copyright users, collected royalties and distributed them to songwriters and music publishers. These traditional arrangements are changing. The fracturing of the traditional system for licensing rights in musical works may have significant consequences to our business, including increasing licensing costs and reducing the availability of certain pieces for use on our services.

Under the United States Copyright Act, we also must pay royalties to copyright owners of sound recordings for the performance of such sound recordings on our Sirius XM service. Those royalty rates may be established through negotiation or, if negotiation is unsuccessful, by the Copyright Royalty Board. Owners of copyrights in sound recordings have created SoundExchange, a collective organization, to collect and distribute royalties. SoundExchange is exempt by statute from certain U.S. antitrust laws and exercises significant market power in the licensing of sound recordings. Under the terms of the Copyright Royalty Board's existing decision governing sound recording royalties for satellite radio, we are required to pay a royalty based on our gross revenues associated with our satellite radio service, subject to certain exclusions, of 15.5% per year for each of the next six years.

#### Our Pandora services depend upon maintaining complex licenses with copyright owners, and these licenses contain onerous terms.

Pandora has direct license agreements with many sound recording copyright and musical work copyright owners. These agreements grant us the right to operate Pandora Premium, and add interactive features, such as replays, additional skips and offline play, to Pandora's ad-supported service and to Pandora Plus.

The economic terms of these direct licenses are onerous and, as a result, we may not be able to profitably operate the Pandora services. However, the economic terms of these direct licenses may be "market," given the rates paid by Pandora's competitors. Competition for Pandora's services are primarily offered by entities that provide music and entertainment services as a small part of a larger business, such as Apple, Google and Amazon. These competitors have the ability to bear these onerous economic provisions to a much greater extent than our Pandora business. We may not be able to negotiate or obtain lower royalty rates under these direct licenses.

These direct licenses are complex. We may not be in compliance with the terms of these licenses, which could result in the loss of some or all of these licenses and some or all of the rights they convey. Similarly, many of these licenses provide that if the licensor loses rights in a portion of the content licensed under the agreement, that content may be removed from the license going-forward.

If Pandora fails to maintain these direct licenses, or if rights to certain music were no longer available under these licenses, then we may have to remove the affected music from Pandora's services, or discontinue certain interactive features for such music, and it might become commercially impractical for us to operate Pandora Premium, Pandora Plus or certain features of our advertising supported service. Any of these occurrences could have an adverse effect on our business, financial condition and results of operations.

Several of these direct licenses also include provisions related to the terms of those agreements relative to other content licensing arrangements, which are commonly referred to as "most favored nation" clauses. These provisions have caused, and may in the future cause, our payments under those agreements to escalate substantially. In addition, many record labels, music

publishers and performing rights organizations have the right to audit our royalty payments, and these audits often result in disputes over whether we have paid the proper amounts. As a result of such audits, we could be required to pay additional amounts, audit fees and interest or penalties, and the amounts involved could adversely affect our business, financial condition and results of operations.

There is no guarantee that these direct licenses will be renewed in the future or that such licenses will be available on the economic terms associated with the current licenses. If we are unable to secure and maintain direct licenses for the rights to provide music on our Pandora services on terms similar to those under our current direct licenses, our content costs could rise and adversely affect our business, financial condition and results of operations.

# The rates we must pay for "mechanical rights" to use musical works on our Pandora service have increased substantially and these rates may adversely affect our business.

Pandora has direct licenses with thousands of music publishers. Those licenses provide that the royalty rate for "reproduction rights" or "mechanical rights", which are required to offer the interactive features of our Pandora services, are determined by the rate formula set by the Copyright Royalty Board for the compulsory license made available by Section 115 of the Copyright Act. These royalty rates also apply to Pandora's use of musical works for which we do not have a direct license with the copyright owners.

The Copyright Royalty Board has issued a rate formula for the period from January 1, 2018 through December 31, 2022. Pursuant to that decision, the rate for the mechanical rights and performance rights needed in connection with interactive streaming would have increased annually between 2018 and 2022. On August 11, 2020, the United States Court of Appeals for the District of Columbia Circuit concluded that the CRB failed to provide adequate notice of the rate structure it adopted, failed to explain its rejection of a past settlement agreement as a benchmark for going forward, and never identified the source of its asserted authority to substantively redefine a material term of its initial determination. For these reasons, the Court of Appeals overturned the CRB's adopted rate structure and percentage rates and remanded the proceeding to the CRB for further proceedings. The CRB has proceedings underway to consider and address the Court of Appeals' decision.

# Failure to protect our intellectual property or actions by third parties to enforce their intellectual property rights could substantially harm our business and operating results.

Development of our systems has depended upon the intellectual property that we have developed, as well as intellectual property licensed from third parties. If the intellectual property that we have developed or use is not adequately protected, others will be permitted to and may duplicate portions of our systems or services without liability. In addition, others may challenge, invalidate, render unenforceable or circumvent our intellectual property rights, patents or existing licenses or we may face significant legal costs in connection with defending and enforcing those intellectual property rights. Some of the know-how and technology we have developed, and plan to develop, is not now, nor will it be, covered by U.S. patents or trade secret protections. Trade secret protection and contractual agreements may not provide adequate protection if there is any unauthorized use or disclosure. The loss of necessary technologies could require us to substitute technologies of lower quality performance standards, at greater cost or on a delayed basis, which could harm us.

Other parties may have patents or pending patent applications, which will later mature into patents or inventions that may block or put limits on our ability to operate our system or license our technologies. We may have to resort to litigation to enforce our rights under license agreements or to determine the scope and validity of other parties' proprietary rights in the subject matter of those licenses. This may be expensive and we may not succeed in any such litigation.

Third parties may assert claims or bring suit against us for patent, trademark or copyright infringement, or for other infringement or misappropriation of intellectual property rights. Any such litigation could be costly, divert our efforts from our business, subject us to significant liabilities to third parties, require us to seek licenses from third parties, block our ability to operate our services or license our technology, or otherwise adversely affect our ability to successfully develop and market our services.

# Some of our services and technologies may use "open source" software, which may restrict how we use or distribute our services or require that we release the source code subject to those licenses.

We may incorporate in some products software licensed under "open source" licenses. Open source licenses often require that the source code be made available to the public and that any modifications or derivative works to the open source software continue to be licensed under open source licenses. Few courts have interpreted open source licenses, and the manner in which these licenses may be interpreted and enforced is therefore subject to uncertainty. In the event that portions of our proprietary technology are determined to be subject to an open source license, we may be required to publicly release portions

of our source code, be forced to re-engineer all or a portion of our technologies, or otherwise be limited in the licensing of our technologies, each of which could adversely affect our ability to sustain and grow our business.

#### Rapid technological and industry changes and new entrants could adversely impact our services.

The audio entertainment industry is characterized by rapid technological change, frequent product and feature innovations, changes in customer requirements and expectations, evolving standards and new entrants offering products and services. If we are unable to keep pace with these changes, our business may not succeed. Products using new technologies could make our services less competitive in the marketplace.

#### Risks Related to our Capital and Ownership Structure

#### We have a significant amount of indebtedness, and our debt contains certain covenants that restrict our operations.

As of December 31, 2021, we had an aggregate principal amount of approximately \$8.9 billion of indebtedness outstanding.

Our indebtedness increases our vulnerability to general adverse economic and industry conditions; requires us to dedicate a portion of our cash flow from operations to payments on indebtedness, reducing the availability of cash flow to fund capital expenditures, marketing and other general corporate activities; limits our ability to borrow additional funds; and may limit our flexibility in planning for, or reacting to, changes in our business and the audio entertainment industry.

In addition, our borrowings under our Senior Secured Revolving Credit Facility carry a variable interest rate based on London Inter-bank Offered Rate ("LIBOR") as a benchmark for establishing the rate of interest. LIBOR is the subject of national, international and other regulatory guidance and proposals for reform. On July 27, 2017, the United Kingdom's Financial Conduct Authority ("FCA"), which regulates LIBOR, announced that it intends to phase out LIBOR. On March 5, 2021, the FCA announced that all LIBOR settings will either cease to be provided by any administrator or no longer be representative: (a) immediately after December 31, 2021, in the case of the one week and two month U.S. dollar settings; and (b) immediately after June 30, 2023, in the case of the remaining U.S. dollar settings. The United States Federal Reserve has also advised banks to cease entering into new contracts that use USD LIBOR as a reference rate. The Alternative Reference Rate Committee, a committee convened by the Federal Reserve that includes major market participants, has identified the Secured Overnight Financing Rate, or SOFR, a new index calculated by short-term repurchase agreements, backed by Treasury securities, as its preferred alternative rate for LIBOR. At this time, it is not possible to predict how markets will respond to SOFR or other alternative reference rates as the transition away from the LIBOR benchmarks is anticipated in coming years. Accordingly, the outcome of these reforms is uncertain and any changes in the methods by which LIBOR is determined or regulatory activity related to LIBOR's phaseout could cause LIBOR to perform differently than in the past or cease to exist. The consequences of these developments cannot be entirely predicted, but could include an increase in the cost of our borrowings under the Credit Facility. In addition, we may, in the future, hedge against interest rate fluctuations by using hedging instruments such as swaps, caps, options, forwards, futures or other similar products. These

# We are a "controlled company" within the meaning of the NASDAQ listing rules and, as a result, qualify for, and rely on, exemptions from certain corporate governance requirements.

We are a "controlled company" for the purposes of the NASDAQ Stock Market listing rules. As such, we have elected not to comply with certain NASDAQ corporate governance requirements. Although a majority of our board of directors consists of independent directors, we do not have a compensation committee and nominating and corporate governance committee that consist entirely of independent directors. Accordingly, you may not have the same protections afforded to stockholders of companies that are subject to all of the corporate governance requirements of NASDAQ.

# While we currently pay a quarterly cash dividend to holders of our common stock, we may change our dividend policy at any time.

We currently pay a quarterly cash dividend to holders of our common stock, although we have no obligation to do so, and our dividend policy may change at any time without notice to our stockholders. The declaration and payment of dividends is at the discretion of our board of directors in accordance with applicable law after considering various factors, including our financial condition, operating results, current and anticipated cash needs, limitations imposed by our indebtedness, legal requirements and other factors that our board of directors deems relevant

# Our principal stockholder has significant influence, including over actions requiring stockholder approval, and its interests may differ from the interests of other holders of our common stock.

As of December 31, 2021, Liberty Media beneficially owned approximately 81% of Holdings' common stock and has the ability to influence our affairs, policies and operations. Three Liberty Media executives and one other member of the board of directors of Liberty Media are members of our board of directors. Our board of directors currently has thirteen members. Gregory B. Maffei, the President and Chief Executive Officer of Liberty Media, is the Chairman of Holdings' board of directors. Our board of directors is responsible for, among other things, the appointment of executive management, future issuances of common stock or other securities, the payment of dividends, if any, the incurrence of debt, and the approval of various transactions.

Liberty Media can also determine the outcome of all matters requiring general stockholder approval, including the election of the board of directors and changes to our certificate of incorporation or by-laws. Liberty Media can also cause or prevent a change of control of Holdings and could preclude any unsolicited acquisition of our company. The concentration of ownership could deprive our stockholders of an opportunity to receive a premium for their common stock as part of a sale of our company and might ultimately affect the market price of our common stock. In certain cases, the interests of Liberty Media may not be aligned with the interests of other stockholders of Holdings.

#### Other Operational Risks

#### If we are unable to attract and retain qualified personnel, our business could be harmed.

We believe that our success depends on our continued ability to attract and retain qualified management, sales, technical and other personnel. During 2021, we experienced a significant amount of employee turnover. All of our employees, including our executive officers, are free to terminate their employment with us at any time, and their knowledge of our business may be difficult to replace.

Qualified individuals are in high demand, particularly in the media and technology industries and we may incur significant costs to attract and retain employees. If we are unable to attract and retain our key employees, we may not be able to achieve our objectives, and our business could be harmed.

#### Our facilities could be damaged by natural catastrophes or terrorist activities.

An earthquake, hurricane, tornado, flood, cyber-attack, terrorist attack, civil unrest or other catastrophic event could damage our data centers, studios, terrestrial repeater networks or satellite uplink facilities, interrupt our services and harm our business. We also have significant operations in the San Francisco Bay Area, a region known for seismic activity. Natural disasters and adverse weather conditions can be caused or exacerbated by climate change.

Any damage to the satellites that transmit to our terrestrial repeater networks would likely result in degradation of the affected service for some Sirius XM subscribers and could result in complete loss of Sirius XM satellite service in certain or all areas. Damage to our satellite uplink facilities could result in a complete loss of our Sirius XM satellite service until we could transfer operations to suitable back-up facilities.

## The unfavorable outcome of pending or future litigation could have an adverse impact on our operations and financial condition.

We are parties to several legal proceedings arising out of various aspects of our business, including class actions arising out of our marketing practices. The outcome of these proceedings may not be favorable, and one or more unfavorable outcomes could have an adverse impact on our financial condition.

# We may be exposed to liabilities that other entertainment service providers would not customarily be subject to.

We design, establish specifications, source or specify parts and components, and manage various aspects of the logistics of the production of satellite radios and our apps. As a result of these activities, we may be exposed to liabilities associated with the design, manufacture and distribution of radios and apps that the providers of an entertainment service would not customarily be subject to, such as liabilities for design defects, patent infringement and compliance with applicable laws, as well as the costs of returned product.

#### Our business and prospects depend on the strength of our brands.

Maintaining and enhancing our brands is an important part of our strategy to expand our base of subscribers, listeners and advertisers. Our brands may be impaired by a number of factors, including service outages, data privacy and security issues and exploitation of our trademarks by others without permission. Our ability to maintain and enhance our brands also depends in part on our ability to continue to develop and provide an innovative and high-quality entertainment experience, which we may not do successfully.

# Special Note About Forward-Looking Statements

We have made various statements in this Annual Report on Form 10-K that may constitute "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995. Forward-looking statements may also be made in our other reports filed with or furnished to the SEC, in our press releases and in other documents. In addition, from time to time, we, through our management, may make oral forward-looking statements. For example, these forward-looking statements may include, among other things, our statements about our outlook and our future results of operations and financial condition; share repurchase plans; the impact of economic and market conditions; and the impact of recent acquisitions. The words "will likely result," "are expected to," "will continue," "is anticipated," "estimated," "blain," "may," "should," "could," "would," "likely," "projection," "outlook" and similar expressions are intended to identify forward-looking statements. Forward-looking statements are subject to risks and uncertainties, including those identified above, which could cause actual results to differ materially from such statements. We caution you that the risk factors described above are not exclusive. There may also be other risks that we are unable to predict at this time that may cause actual results to differ materially from those in forward-looking statements. New factors emerge from time to time, and it is not possible for us to predict which will arise or to assess with any precision the impact of each factor on our business or the extent to which any factor, or combination of factors, may cause actual results to differ materially from those contained in any forward-looking statements. Readers are cautioned not to place undue reliance on these forward-looking statements, which speak only as of the date on which they are made. We undertake no obligation to update publicly or revise any forward-looking statements, except as required by law.

#### ITEM 1B. UNRESOLVED STAFF COMMENTS

None.

# ITEM 2. PROPERTIES

Below is a list of the principal properties that we own or lease:

# Sirius XM

Location	Purpose	Own/Lease
New York, NY	Corporate headquarters, office facilities and studio/production facilities	Lease
Washington, DC	Office, studio/production facilities and data center	Own
Lawrenceville, NJ	Office and technical/engineering facilities	Lease
Deerfield Beach, FL	Office and technical/engineering facilities	Lease
Farmington Hills, MI	Office and technical/engineering facilities	Lease
Nashville, TN	Studio/production facilities	Lease
Vernon, NJ	Technical/engineering facilities	Own
Ellenwood, GA	Technical/engineering facilities	Lease
Fredericksburg, VA	Warehouse and technical/engineering facilities	Lease
Los Angeles, CA	Office and studio/production facilities	Lease
Irving, TX	Office and engineering facilities/call center	Lease
San Francisco, CA	Office and engineering facilities	Lease
Ashburn, VA	Data center	Lease

We also lease other small facilities that we use as offices for our advertising sales personnel, studios and warehouse and maintenance space. These facilities are not material to our business or operations.

In addition, we lease or license space at approximately 540 locations for use in connection with the terrestrial repeater networks that support our satellite radio services. In general, these leases and licenses are for space on building rooftops and communications towers. None of these individual locations are material to our business or operations.

# Pandora

Location	Purpose	Own/Lease
Oakland, CA	Office and technical/engineering facilities	Lease
New York, NY	Office, sales and studio/production facilities	Lease
Atlanta, GA	Office, sales and technical/engineering facilities	Lease
Santa Monica, CA	Office and sales facilities	Lease

We also lease other small facilities that we use as offices for our sales and office personnel. These facilities are not material to our business or operations.

# ITEM 3. LEGAL PROCEEDINGS

For a discussion of our "Legal Proceedings," refer to Note 16 in the notes to our audited consolidated financial statements in this Annual Report on Form 10-K.

# ITEM 4. MINE SAFETY DISCLOSURES

Not applicable.

#### PART II

# ITEM 5. MARKET FOR REGISTRANT'S COMMON EQUITY, RELATED STOCKHOLDER MATTERS AND ISSUER PURCHASES OF EQUITY SECURITIES

Our common stock is traded on the NASDAQ Global Select Market under the symbol "SIRI." On January 28, 2022, there were approximately 6,529 record holders of our common stock.

# Issuer Purchases of Equity Securities

As of December 31, 2021, our board of directors had authorized us to repurchase an aggregate of \$18.0 billion of our common stock and have not establish an end date for this stock repurchase program. Shares of common stock may be purchased from time to time on the open market, pursuant to pre-set trading plans meeting the requirements of Rule 10b5-1 under the Exchange Act, in privately negotiated transactions, including transactions with Liberty Media and its affiliates, or otherwise. As of December 31, 2021, our cumulative repurchases since December 2012 under our stock repurchase program totaled 3.6 billion shares for approximately \$15.9 billion, and approximately \$2.1 billion remained available under our existing \$18.0 billion stock repurchase program. The size and timing of our repurchases will be based on a number of factors, including price and business and market conditions.

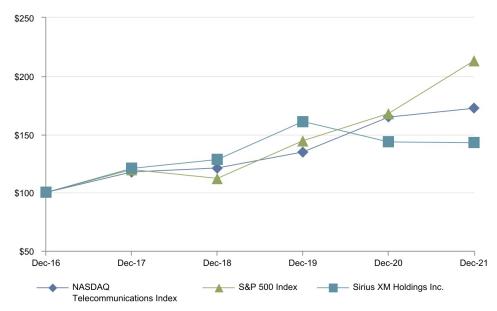
The following table provides information about our purchases of equity securities registered pursuant to Section 12 of the Exchange Act during the quarter ended December 31, 2021:

Period	Total Number of Shares Purchased	Avera	ge Price Paid Per Share (a)	Total Number of Shares Purchased as Part of Publicly Announced Plans or Programs	of S	proximate Dollar Value Shares that May Yet Be chased Under the Plans or Programs (a)
October 1, 2021 - October 31, 2021	22,100,000	\$	6.09	22,100,000	\$	2,289,261,423
November 1, 2021 - November 30, 2021	15,710,109	\$	6.33	15,710,109	\$	2,189,883,237
December 1, 2021 - December 31, 2021	17,350,766	\$	6.31	17,350,766	\$	2,080,356,522
Total	55,160,875	\$	6.23	55,160,875		

<sup>(</sup>a) These amounts include fees and commissions associated with the shares repurchased. All of these repurchases were made pursuant to our share repurchase program.

# COMPARISON OF CUMULATIVE TOTAL RETURNS

Set forth below is a graph comparing the cumulative performance of our common stock with the Standard & Poor's Composite-500 Stock Index, or the S&P 500, and the NASDAQ Telecommunications Index from December 31, 2016 to December 31, 2021. The graph assumes that \$100 was invested on December 31, 2016 in each of our common stock, the S&P 500 and the NASDAQ Telecommunications Index. In November 2016, we paid our first quarterly dividend. Our board of directors expects to declare regular quarterly dividends.



# **Stockholder Return Performance Table**

	DAQ ications Index	S&P 500 Index			Sirius XM Holdings Inc.	
December 31, 2016	\$ 100.00	\$	100.00	\$	100.00	
December 31, 2017	\$ 117.44	\$	119.42	\$	120.45	
December 31, 2018	\$ 121.00	\$	111.97	\$	128.31	
December 31, 2019	\$ 134.77	\$	144.31	\$	160.67	
December 31, 2020	\$ 164.47	\$	167.77	\$	143.15	
December 31, 2021	\$ 172.33	\$	212.89	\$	142.70	

# **Equity Compensation Plan Information**

The following table provides information about our common stock that may be issued upon exercise of options, warrants and rights under our equity compensation plans. Information is as of December 31, 2021.

Plan Category (shares in millions)	Number of Securities to be Issued upon Exercise of Outstanding Options, Warrants and Rights <sup>(1)</sup>	Weighted-Average Exercise Price of Outstanding Options, Warrants and Rights <sup>(2)</sup>	Number of Securities Remaining Available for Future Issuance under Equity Compensation Plans
Equity compensation plans approved by security holders	241	\$ 5.47	134
Equity compensation plans not approved by security holders	_	_	_
Total	241	\$ 5.47	134

<sup>(1)</sup> In addition to shares issuable upon exercise of stock options, amount also includes approximately 80 shares underlying restricted stock units, including performance-based restricted stock units ("PRSUs") and dividend equivalents thereon. The number of shares to be issued in respect of PRSUs and dividend equivalents thereon have been calculated based on the assumption that the maximum levels of performance applicable to the PRSUs will be achieved.

The weighted-average exercise price of outstanding options, warrants and rights relates solely to stock options, which are the only currently outstanding exercisable security.

<sup>(2)</sup> 

#### ITEM 6. | RESERVED|

# ITEM 7. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

This Annual Report on Form 10-K contains forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. Actual results and the timing of events could differ materially from those projected in forward-looking statements due to a number of factors, including those described under "Item 1A - Risk Factors" and elsewhere in this Annual Report on Form 10-K. See "Special Note About Forward-Looking Statements."

All amounts referenced in this Item 7 are in millions, except subscriber amounts are in thousands and per subscriber and per installation amounts are in ones, unless otherwise stated.

The following discussion and analysis of our financial condition and results of operations should be read in conjunction with our audited consolidated financial statements and related notes included elsewhere in this Annual Report on Form 10-K.

## **Executive Summary**

We operate two complementary audio entertainment businesses - our Sirius XM business and our Pandora business.

Sirius XM

Our Sirius XM business features music, sports, entertainment, comedy, talk, news, traffic and weather channels and other content, as well as podcasts and infotainment services, in the United States on a subscription fee basis. Sirius XM's premier content bundles include live, curated and certain exclusive and on demand programming. The Sirius XM service is distributed through our two proprietary satellite radio systems and streamed via applications for mobile devices, home devices and other consumer electronic equipment. Satellite radios are primarily distributed through automakers, retailers and our website. Our Sirius XM service is also available through our user interface, which we call "360L," that combines our satellite and streaming services into a single, cohesive in-vehicle entertainment experience.

The primary source of revenue from our Sirius XM business is subscription fees, with most of our customers subscribing to monthly, quarterly, semi-annual or annual plans. We also derive revenue from advertising on select non-music channels, which is sold under the SXM Media brand, direct sales of our satellite radios and accessories, and other ancillary services. As of December 31, 2021, our Sirius XM business had approximately 34.0 million subscribers.

In addition to our audio entertainment businesses, we provide connected vehicle services to several automakers. These services are designed to enhance the safety, security and driving experience of consumers. We also offer a suite of data services that includes graphical weather, fuel prices, sports schedules and scores and movie listings, a traffic information service that includes information as to road closings, traffic flow and incident data to consumers with compatible in-vehicle navigation systems, and real-time weather services in vehicles, boats and planes.

Sirius XM also holds a 70% equity interest and 33% voting interest in Sirius XM Canada. Sirius XM Canada's subscribers are not included in our subscriber count or subscriber-based operating metrics.

Pandora

Our Pandora business operates a music, comedy and podcast streaming discovery platform, offering a personalized experience for each listener wherever and whenever they want to listen, whether through mobile devices, car speakers or connected devices. Pandora enables listeners to create personalized stations and playlists, discover new content, hear artist- and expert-curated playlists, podcasts and select Sirius XM content as well as search and play songs and albums on-demand. Pandora is available as (1) an ad-supported radio service, (2) a radio subscription service (Pandora Plus) and (3) an on-demand subscription service (Pandora Premium). As of December 31, 2021, Pandora had approximately 6.4 million subscribers.

The majority of revenue from our Pandora business is generated from advertising on our Pandora ad-supported radio service. We also derive subscription revenue from our Pandora Plus and Pandora Premium subscribers.

Our Pandora business also sells advertising on audio platforms and in podcasts unaffiliated with us. Pandora is the exclusive US ad sales representative for SoundCloud. Through this arrangement, Pandora offers advertisers the ability to

execute campaigns in the US across the Pandora and SoundCloud listening platforms. We also have arrangements to serve as the ad sales representative for certain podcasts. In addition, through AdsWizz, Pandora provides a comprehensive digital audio advertising technology platform, which connects audio publishers and advertisers with a variety of ad insertion, campaign trafficking, yield optimization, programmatic buying, marketplace and podcast monetization solutions. As of December 31, 2021, our Pandora business had approximately 52.3 million monthly active users.

In February 2020, Sirius XM completed a \$75 investment in SoundCloud. SoundCloud is a next-generation music entertainment company, powered by an ecosystem of artists, listeners, and curators on the pulse of what's new, now and next in music culture. SoundCloud's platform enables its users to upload, promote, share and create audio entertainment. The minority investment complements the existing ad sales relationship between SoundCloud and Pandora.

In June 2020, Sirius XM acquired Simplecast for \$28 in cash. Simplecast is a podcast management and analytics platform. Refer to Note 3 to our consolidated financial statements for more information on this acquisition.

In October 2020, Sirius XM acquired the assets of Stitcher from The E.W. Scripps Company and certain of its subsidiaries ("Scripps") for total consideration of \$302, which included \$266 in cash and \$36 related to contingent consideration. During the year ended December 31, 2021, Stitcher did not achieve certain financial metrics, as a result of which we do not expect to pay to Scripps the 2021 portion of the contingent consideration associated with the transaction. During the year ended December 31, 2021, we recognized a \$17 benefit related to the change in fair value of the 2021 portion of the contingent consideration. The acquisition of Stitcher, in conjunction with Simplecast, creates a full-service platform for podcast creators, publishers and advertisers. Refer to Note 3 to our consolidated financial statements for more information on this acquisition.

Liberty Media

As of December 31, 2021, Liberty Media beneficially owned, directly and indirectly, approximately 81% of the outstanding shares of our common stock. As a result, we are a "controlled company" for the purposes of the NASDAQ corporate governance requirements.

# **Results of Operations**

Set forth below are our results of operations for the year ended December 31, 2021 compared with the year ended December 31, 2020. Refer to our Form 10-K for the year ended December 31, 2020 filed with the SEC on February 2, 2021 for our results of operations for the year ended December 31, 2020 compared with the year ended December 31, 2019. The results of operations are presented for each of our reporting segments for revenue and cost of services and on a consolidated basis for all other items.

Revenue         7000 months         1000 months         <		For	For the Years Ended December 31,			2021 vs 2020 Change			
Sirbiskrier revenue         \$ 6,88 \$ 5,857 \$ 227           Advertising revenue         188         157         31           Equipment revenue         201         173         28           Other revenue         151         155         (4)           Total Sirus XM revenue         6,624         6,342         282           Pandors         80         515         15           Advertising revenue         1,532         1,183         359           Total Pandora revenue         2,072         1,698         374           Advertising revenue         1,532         1,488         374           Total Pandora revenue         2,072         1,698         374           Total consolidated revenue         2,072         1,698         374           Total consolidated revenue         3,072         1,698         374           Revenue shure and royalties         1,532         1,484         48           Programming and content         511         449         62           Cost of equipment         1,512         1,484         48         21           Total Sirius XM cost of services         2,635         2,469         166           Pandort         2,725         2,499			2021		2020	Amount	%		
Subscriber revenue         \$ 6,084         \$ 5,857         \$ 227           Advertising revenue         188         157         31           Equipment revenue         6,62         6,342         282           Total Sirius XM revenue         6,52         6,342         282           Pandror:         8,50         515         15           Subscriber revenue         1,542         1,183         359           Advertising revenue         1,542         1,183         359           Total Consolidated revenue         8,66         8,00         656           Vary services         8,66         8,00         656           Striverices         1,141         48         62           Cost of exprices         1,145         304         21           Transmission         1,19         30         10           Total Strius XM cost of services         1,14         93         20           Potamotri <th>Revenue</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	Revenue								
Advertising revenue   188   157   31     Equipment revenue   201   173   28     Other revenue   151   155   (4)     Total Strius XM revenue   5.04   5.15   15     Advertising revenue   5.05   5.15   15     Advertising revenue   1.542   1.183   359     Total Pandora revenue   2.072   1.698   374     Total consolidated revenue   8,696   8,040   656     Cost of services   7.00   1.00     Strius XM:	Sirius XM:								
Pagingment revenue   151   155   164   156   155   164   156   155   164   156   155   164   156   155   155   164   156   156   155   155   164   156   156   155   155   156   1	Subscriber revenue	\$		\$	5,857	\$ 227	4 %		
Differ revenue   151	Advertising revenue						20 %		
Total Sirius XM revenue         6,624         6,342         282           Pandors:         Subscriber revenue         530         515         15           Advertising revenue         1,542         1,183         359           Total Pandora revenue         2,072         1,698         374           Total consolidated revenue         8,696         8,040         656           Cost of services         8         8,696         8,040         656           Strius XM:         8         8         8         656           Strius XM:         8         8         8         656           Revenue share and royalties         1,532         1,484         48         8         9         62         2         2         1,484         48         8         9         62         2         1,149         62         2         1,149         62         2         1,149         62         2         1,149         62         2         1,149         62         2         1,149         62         2         1,149         1,149         1,149         1,149         1,149         1,149         1,149         1,149         1,149         1,149         1,149         1,149         1,149	• •		201		173		16 %		
Pander:         Subscriber revenue         530         515         15           Advertising revenue         1,542         1,183         359           Total Pandora revenue         2,072         1,698         374           Total Canosidated revenue         8,696         8,040         65           Cost of services         8,696         8,040         65           Cost services           Striux XM:           Revenue share and royalties         1,532         1,484         48           Programming and content         511         449         62           Customer service and billing         415         394         21           Transmission         159         123         36           Cost of equipment         18         19         (1)           Total Strius XM cost of services         2,635         2,469         166           Revenue share and royalties         1,140         937         203           Pogramming and content         48         32         16           Customers evice and billing         86         87         (1)           Total Pandora cost of services         1,333         1,110         223							(3)%		
Subscriber revenue         530         515         15           Advertising revenue         1,42         1,183         359           Total Pandora revenue         2,072         1,698         374           Total consolidated revenue         8,696         8,040         656           Cost of Services           Strius XM:           Revenue share and royalties         1,532         1,484         48           Programming and content         511         449         62           Customer service and billing         415         394         21           Transmission         159         123         36           Cost of equipment         18         19         (1)           Total Strius XM cost of services         2,635         2,469         166           Pandora:         18         19         (1)           Revenue share and royalties         1,140         937         203           Programming and content         48         32         16           Customer service and billing         86         87         (1)           Transmission         59         54         5           Total Pandora cost of services         3,968         3,57			6,624		6,342	282	4 %		
Advertising revenue	Pandora:								
Total Pandora revenue         2,072         1,698         374           Total consolidated revenue         8,696         8,040         656           Cost of Services         8,096         8,040         656           Sirius XM:         8         8           Revenue share and royalties         1,532         1,84         48           Programming and content         511         449         62           Customer service and billing         415         394         21           Transmission         159         123         36           Cost of equipment         18         19         (1)           Total Sirus XM cost of services         2,635         2,469         166           Pandora:         1,140         937         203           Pandora:         2         2,635         2,469         166           Pandora:         2         2,635         2,469         166           Pandora:         2         2,635         2,469         166           Pandora:         4         8         3         2         16           Customer service and billing         86         87         (1)         2         1         2         1         <							3 %		
Total consolidated revenue         8,696         8,040         656           Cost of services         Services         Services           Sirius XM:         1,532         1,484         48           Programming and content         511         449         62           Customer service and billing         415         394         21           Tansmission         159         123         36           Cost of equipment         18         19         (1)           Total Sirius XM cost of services         2,635         2,469         166           Pandors:         8         2,469         166           Part or         8         32         16           Pogramming and content         48         32         16           Customer service and billing         86         87         (1)           Transmission         59         54         5           Total Pandora cost of services         1,333         1,110         223           Total consolidated cost of services         3,968         3,579         389           Subscriber acquisition costs         325         362         37           Total operating development         265         263         2 <td>Advertising revenue</td> <td></td> <td></td> <td></td> <td>1,183</td> <td></td> <td>30 %</td>	Advertising revenue				1,183		30 %		
Cost of services           Sirius XM:         Revenue share and royalties         1,532         1,484         48           Programming and content         511         449         62           Customer service and billing         415         394         21           Transmission         159         123         36           Cost of equipment         18         19         (1)           Total Sirius XM cost of services         2,635         2,469         166           Pandora:         ************************************	Total Pandora revenue		2,072		1,698	374	22 %		
Sirius XM:         1,532         1,484         48           Revenue share and royalties         511         449         62           Customer service and billing         415         394         21           Transmission         159         123         36           Cost of equipment         18         19         (1)           Total Sirius XM cost of services         2,635         2,469         166           Pandora:         8         19         (1)           Revenue share and royalties         1,140         937         203           Programming and content         48         32         16           Customer service and billing         86         87         (1)           Transmission         59         54         5           Total Pandora cost of services         1,333         1,110         223           Total consolidated cost of services         3,968         3,579         389           Subscriber acquisition costs         3,968         3,579         389           Subscriber acquisition costs         325         362         (37)           Sales and marketing         1,056         957         99           Engineering, design and development	Total consolidated revenue		8,696		8,040	656	8 %		
Revenue share and royalties         1,532         1,484         48           Programming and content         511         449         62           Custome service and billing         415         394         21           Transmission         159         123         36           Cost of equipment         18         19         (1)           Total Sirius XM cost of services         2,635         2,469         166           Pandors:         ***         ***         2,635         2,469         166           Pandors:         ***         ***         2,635         2,469         166           Pandors:         ***         ***         1,140         937         203         203         166         1,140         937         203         166         203         203         166         203         203         166         203         203         166         203         203         166         203         203         166         203         203         166         203         203         166         203         203         103         110         202         203         203         203         203         203         203         203         203	Cost of services								
Programming and content         511         449         62           Customer service and billing         415         394         21           Transmission         159         123         36           Cost of equipment         18         19         (1)           Total Sirius XM cost of services         2,635         2,469         166           Pandora           Revenue share and royalties         1,140         937         203           Programming and content         48         32         16           Customer service and billing         86         87         (1)           Transmission         59         54         5           Total Pandora cost of services         1,333         1,110         223           Total Pandora cost of services         3,968         3,579         389           Subscriber acquisition costs         325         362         (37)           Sales and marketing         1,056         957         99           Engineering, design and development         265         263         2           General and administrative         514         511         3           Depreciation and amortization         533         506         27	Sirius XM:								
Customer service and billing         415         394         21           Transmission         159         123         36           Cost of equipment         18         19         (1)           Total Sirius XM cost of services         2,635         2,469         166           Pandora:           Revenue share and royalties         1,140         937         203           Programming and content         48         32         16           Customer service and billing         86         87         (1)           Transmission         59         54         5           Total Pandora cost of services         3,968         3,579         389           Subscriber acquisition costs         325         362         (37)           Sales and marketing         1,056         957         99           Engineering, design and development         265         263         2           General and administrative         514         511         3           Depreciation and amortization         533         506         27           Impairment, restructuring and acquisition costs         20         1,004         (984)           Total operating expenses         6,681         7,182	Revenue share and royalties		1,532		1,484	48	3 %		
Transmission         159         123         36           Cost of equipment         18         19         (1)           Total Sirius XM cost of services         2,635         2,469         166           Pandora:         ***********************************	Programming and content		511		449	62	14 %		
Cost of equipment         18         19         (1)           Total Sirius XM cost of services         2,635         2,469         166           Pandors:           Revenue share and royalties         1,140         937         203           Programming and content         48         32         16           Customer service and billing         86         87         (1)           Transmission         59         54         5           Total Pandora cost of services         1,333         1,110         223           Total consolidated cost of services         3,968         3,579         389           Subscriber acquisition costs         325         362         (37)           Sales and marketing         1,056         957         99           Engineering, design and development         265         263         2           General and administrative         514         511         3           Depreciation and amortization         353         506         27           Impairment, restructuring and acquisition costs         20         1,004         (984)           Total operating expenses         6,681         7,182         (501)           Income from operations         2,015	Customer service and billing		415		394	21	5 %		
Total Sirius XM cost of services         2,635         2,469         166           Pandora:         Revenue share and royalties         1,140         937         203           Revenue share and royalties         1,140         937         203           Programming and content         48         32         16           Customer service and billing         86         87         (1)           Transmission         59         54         5           Total Pandora cost of services         3,968         3,579         389           Subscriber acquisition costs         325         362         (37)           Sales and marketing         1,056         957         99           Engineering, design and development         265         263         2           General and administrative         514         511         3           Depreciation and amortization         533         506         27           Impairment, restructuring and acquisition costs         20         1,004         (984)           Total operating expenses         6,681         7,182         (501)           Income from operations         2,015         858         1,157           Other (expense) income:         (415)	Transmission		159		123	36	29 %		
Pandora:         Revenue share and royalties         1,140         937         203           Programming and content         48         32         16           Customer service and billing         86         87         (1)           Transmission         59         54         5           Total Pandora cost of services         1,333         1,110         223           Total consolidated cost of services         3,968         3,579         389           Subscriber acquisition costs         325         362         (37)           Sales and marketing         1,056         957         99           Engineering, design and development         265         263         2           General and administrative         514         511         3           Depreciation and amortization         533         506         27           Impairment, restructuring and acquisition costs         20         1,004         (984)           Total operating expenses         6,681         7,182         (501)           Income from operations         2,015         858         1,157           Other (expense) income:         1         1,044         (984)           Interest expense         (415)         (394)	Cost of equipment		18		19	(1)	(5)%		
Revenue share and royalties         1,140         937         203           Programming and content         48         32         16           Customer service and billing         86         87         (1)           Transmission         59         54         5           Total Pandora cost of services         3,968         3,579         389           Subscriber acquisition costs         325         362         (37)           Sales and marketing         1,056         957         99           Engineering, design and development         265         263         2           General and administrative         514         511         3           Depreciation and amortization         533         506         27           Impairment, restructuring and acquisition costs         20         1,004         (984)           Total operating expenses         6,681         7,182         (501)           Income from operations         2,015         858         1,157           Other (expense) income:              Interest expense         (415)         (394)         (21)           Loss on extinguishment of debt         (83)         (40)         (43)	Total Sirius XM cost of services		2,635		2,469	166	7 %		
Programming and content         48         32         16           Customer service and billing         86         87         (1)           Transmission         59         54         5           Total Pandora cost of services         1,333         1,110         223           Total consolidated cost of services         3,968         3,579         389           Subscriber acquisition costs         325         362         (37)           Sales and marketing         1,056         957         99           Engineering, design and development         265         263         2           General and administrative         514         511         3           Depreciation and amortization         533         506         27           Impairment, restructuring and acquisition costs         20         1,004         (984)           Total operating expenses         6,681         7,182         (501)           Income from operations         2,015         858         1,157           Other (expense) income:         4         4         39         4         4           Income from operations         (415)         (394)         (21)         4         3         4         4         3         <	Pandora:								
Customer service and billing         86         87         (1)           Transmission         59         54         5           Total Pandora cost of services         1,333         1,110         223           Total consolidated cost of services         3,968         3,579         389           Subscriber acquisition costs         325         362         (37)           Sales and marketing         1,056         957         99           Engineering, design and development         265         263         2           General and administrative         514         511         3           Depreciation and amortization         533         506         27           Impairment, restructuring and acquisition costs         20         1,004         (98)           Total operating expenses         6,681         7,182         (501)           Income from operations         2,015         858         1,157           Other (expense) income:         4(15)         (394)         (21)           Loss on extinguishment of debt         (83)         (40)         (43)           Other income         9         6         3           Total other (expense) income         (489)         (428)         (61) <td>Revenue share and royalties</td> <td></td> <td>1,140</td> <td></td> <td>937</td> <td>203</td> <td>22 %</td>	Revenue share and royalties		1,140		937	203	22 %		
Transmission         59         54         5           Total Pandora cost of services         1,333         1,110         223           Total consolidated cost of services         3,968         3,579         389           Subscriber acquisition costs         325         362         (37)           Sales and marketing         1,056         957         99           Engineering, design and development         265         263         2           General and administrative         514         511         3           Depreciation and amortization         533         506         27           Impairment, restructuring and acquisition costs         20         1,004         (984)           Total operating expenses         6,681         7,182         (501)           Income from operations         2,015         858         1,157           Other (expense) income:         415         (394)         (21)           Loss on extinguishment of debt         (83)         (40)         (43)           Other income         9         6         3           Total other (expense) income         489         428         (61)           Income before income taxes         1,526         430         1,096	Programming and content		48		32	16	50 %		
Total Pandora cost of services         1,333         1,110         223           Total consolidated cost of services         3,968         3,579         389           Subscriber acquisition costs         325         362         (37)           Sales and marketing         1,056         957         99           Engineering, design and development         265         263         2           General and administrative         514         511         3           Depreciation and amortization         533         506         27           Impairment, restructuring and acquisition costs         20         1,004         (984)           Total operating expenses         6,681         7,182         (501)           Income from operations         2,015         858         1,157           Other (expense) income:         1           Incest expense         (415)         (394)         (21)           Loss on extinguishment of debt         (83)         (40)         (43)           Other income         9         6         3           Total other (expense) income         (489)         (428)         (61)           Income before income taxes         1,526         430         1,096 <t< td=""><td>Customer service and billing</td><td></td><td>86</td><td></td><td>87</td><td>(1)</td><td>(1)%</td></t<>	Customer service and billing		86		87	(1)	(1)%		
Total consolidated cost of services         3,968         3,579         389           Subscriber acquisition costs         325         362         (37)           Sales and marketing         1,056         957         99           Engineering, design and development         265         263         2           General and administrative         514         511         3           Depreciation and amortization         533         506         27           Impairment, restructuring and acquisition costs         20         1,004         (984)           Total operating expenses         6,681         7,182         (501)           Income from operations         2,015         858         1,157           Other (expense) income:         1         (415)         (394)         (21)           Loss on extinguishment of debt         (83)         (40)         (43)           Other income         9         6         3           Total other (expense) income         (489)         (428)         (61)           Income before income taxes         1,526         430         1,096           Income tax expense         (212)         (299)         87	Transmission		59		54	5	9 %		
Subscriber acquisition costs         325         362         (37)           Sales and marketing         1,056         957         99           Engineering, design and development         265         263         2           General and administrative         514         511         3           Depreciation and amortization         533         506         27           Impairment, restructuring and acquisition costs         20         1,004         (984)           Total operating expenses         6,681         7,182         (501)           Income from operations         2,015         858         1,157           Other (expense) income:         1         1         394         (21)           Loss on extinguishment of debt         (83)         (40)         (43)           Other income         9         6         3           Total other (expense) income         (489)         (428)         (61)           Income before income taxes         1,526         430         1,096           Income tax expense         (212)         (299)         87	Total Pandora cost of services	<u></u>	1,333		1,110	223	20 %		
Sales and marketing       1,056       957       99         Engineering, design and development       265       263       2         General and administrative       514       511       3         Depreciation and amortization       533       506       27         Impairment, restructuring and acquisition costs       20       1,004       (984)         Total operating expenses       6,681       7,182       (501)         Income from operations       2,015       858       1,157         Other (expense) income:       (415)       (394)       (21)         Loss on extinguishment of debt       (83)       (40)       (43)         Other income       9       6       3         Total other (expense) income       (489)       (428)       (61)         Income before income taxes       1,526       430       1,096         Income tax expense       (212)       (299)       87	Total consolidated cost of services		3,968		3,579	389	11 %		
Engineering, design and development         265         263         2           General and administrative         514         511         3           Depreciation and amortization         533         506         27           Impairment, restructuring and acquisition costs         20         1,004         (984)           Total operating expenses         6,681         7,182         (501)           Income from operations         2,015         858         1,157           Other (expense) income:         Interest expense         (415)         (394)         (21)           Loss on extinguishment of debt         (83)         (40)         (43)           Other income         9         6         3           Total other (expense) income         (489)         (428)         (61)           Income before income taxes         1,526         430         1,096           Income tax expense         (212)         (299)         87	Subscriber acquisition costs		325		362	(37)	(10)%		
General and administrative         514         511         3           Depreciation and amortization         533         506         27           Impairment, restructuring and acquisition costs         20         1,004         (984)           Total operating expenses         6,681         7,182         (501)           Income from operations         2,015         858         1,157           Other (expense) income:         Interest expense         (415)         (394)         (21)           Loss on extinguishment of debt         (83)         (40)         (43)           Other income         9         6         3           Total other (expense) income         (489)         (428)         (61)           Income before income taxes         1,526         430         1,096           Income tax expense         (212)         (299)         87	Sales and marketing		1,056		957	99	10 %		
Depreciation and amortization         533         506         27           Impairment, restructuring and acquisition costs         20         1,004         (984)           Total operating expenses         6,681         7,182         (501)           Income from operations         2,015         858         1,157           Other (expense) income:         Use of the content of the	Engineering, design and development		265		263	2	1 %		
Impairment, restructuring and acquisition costs         20         1,004         (984)           Total operating expenses         6,681         7,182         (501)           Income from operations         2,015         858         1,157           Other (expense) income:         Interest expense         (415)         (394)         (21)           Loss on extinguishment of debt         (83)         (40)         (43)           Other income         9         6         3           Total other (expense) income         (489)         (428)         (61)           Income before income taxes         1,526         430         1,096           Income tax expense         (212)         (299)         87	General and administrative		514		511	3	1 %		
Total operating expenses         6,681         7,182         (501)           Income from operations         2,015         858         1,157           Other (expense) income:         Interest expense         (415)         (394)         (21)           Loss on extinguishment of debt         (83)         (40)         (43)           Other income         9         6         3           Total other (expense) income         (489)         (428)         (61)           Income before income taxes         1,526         430         1,096           Income tax expense         (212)         (299)         87	Depreciation and amortization		533		506	27	5 %		
Income from operations       2,015       858       1,157         Other (expense) income:       Interest expense       (415)       (394)       (21)         Loss on extinguishment of debt       (83)       (40)       (43)         Other income       9       6       3         Total other (expense) income       (489)       (428)       (61)         Income before income taxes       1,526       430       1,096         Income tax expense       (212)       (299)       87	Impairment, restructuring and acquisition costs		20		1,004	(984)	(98)%		
Other (expense) income:         Interest expense       (415)       (394)       (21)         Loss on extinguishment of debt       (83)       (40)       (43)         Other income       9       6       3         Total other (expense) income       (489)       (428)       (61)         Income before income taxes       1,526       430       1,096         Income tax expense       (212)       (299)       87	Total operating expenses		6,681		7,182	 (501)	(7)%		
Interest expense       (415)       (394)       (21)         Loss on extinguishment of debt       (83)       (40)       (43)         Other income       9       6       3         Total other (expense) income       (489)       (428)       (61)         Income before income taxes       1,526       430       1,096         Income tax expense       (212)       (299)       87	Income from operations		2,015		858	1,157	135 %		
Loss on extinguishment of debt         (83)         (40)         (43)           Other income         9         6         3           Total other (expense) income         (489)         (428)         (61)           Income before income taxes         1,526         430         1,096           Income tax expense         (212)         (299)         87	Other (expense) income:								
Other income         9         6         3           Total other (expense) income         (489)         (428)         (61)           Income before income taxes         1,526         430         1,096           Income tax expense         (212)         (299)         87	Interest expense		(415)		(394)	(21)	(5)%		
Total other (expense) income         (489)         (428)         (61)           Income before income taxes         1,526         430         1,096           Income tax expense         (212)         (299)         87	Loss on extinguishment of debt		(83)		(40)	(43)	(108)%		
Income before income taxes         1,526         430         1,096           Income tax expense         (212)         (299)         87	Other income		9		6	3	50 %		
Income before income taxes         1,526         430         1,096           Income tax expense         (212)         (299)         87	Total other (expense) income		(489)		(428)	(61)	(14)%		
Income tax expense (212) (299) 87	Income before income taxes		. ,				255 %		
	Income tax expense					,	29 %		
Net income 5 1.314 5 1.31 5 1.83	Net income	\$	1,314	\$	131	\$ 1,183	903 %		

#### Sirius XM Revenue

Sirius XM Subscriber Revenue includes fees charged for self-pay and paid promotional subscriptions, U.S. Music Royalty Fees and other ancillary fees.

For the years ended December 31, 2021 and 2020, subscriber revenue was \$6,084 and \$5,857, respectively, an increase of 4%, or \$227. The increase was primarily driven by growth in our ARPU of 5% and in our self-pay subscriber base of 4% driving higher self-pay revenue and U.S. Music Royalty Fees, partially offset by lower revenue generated from automakers offering paid promotional subscriptions.

We expect subscriber revenues to increase based on the growth of our subscriber base, increases in the average price charged and the sale of additional services to subscribers.

Sirius XM Advertising Revenue includes the sale of advertising on Sirius XM's non-music channels.

For the years ended December 31, 2021 and 2020, advertising revenue was \$188 and \$157, respectively, an increase of 20%, or \$31. The increase was due to higher advertising primarily on news and sports channels as we continue to recover to pre-COVID-19 levels.

We expect our Sirius XM advertising revenue to grow as we continue our recovery to pre-COVID-19 levels.

Sirius XM Equipment Revenue includes revenue and royalties from the sale of satellite radios, components and accessories.

For the years ended December 31, 2021 and 2020, equipment revenue was \$201 and \$173, respectively, an increase of 16%, or \$28. The increase was driven by higher royalty revenue from new vehicle production as automakers pushed to get back to pre-COVID-19 manufacturing levels during the first half of 2021 and due to our transition to a new generation of chipsets, partially offset by semiconductor supply shortages in the second half of 2021.

We expect equipment revenue to decrease as a result of the semiconductor supply shortages.

Sirius XM Other Revenue includes service and advisory revenue from Sirius XM Canada, revenue from our connected vehicle services, and ancillary revenues.

For the years ended December 31, 2021 and 2020, other revenue was \$151 and \$155, respectively, a decrease of 3%, or \$4. The decrease was primarily driven by lower revenue generated by rental car arrangements.

We expect other revenue to decrease as revenue generated from our connected vehicle services declines, partially offset by an anticipated growth in royalties from Sirius XM Canada.

#### Pandora Revenue

Pandora Subscriber Revenue includes fees charged for Pandora Plus, Pandora Premium, Stitcher and Simplecast subscriptions.

For the years ended December 31, 2021 and 2020, Pandora subscriber revenue was \$530 and \$515, respectively, an increase of 3%, or \$15. The increase was primarily driven by the inclusion of Stitcher during the full year 2021 as well as an increase of 3% in average subscribers from 2020.

We expect Pandora subscriber revenues to decrease as our Pandora subscriber base declines.

Pandora Advertising Revenue is generated primarily from audio, display and video advertising from on-platform and off-platform advertising.

For the years ended December 31, 2021 and 2020, Pandora advertising revenue was \$1,542 and \$1,183, respectively, an increase of 30%, or \$359. The increase was primarily driven by strong monetization of on platform programming to \$102.74 per thousand hours, and higher off-platform revenue as well as a full year of Stitcher revenue.

We expect Pandora advertising revenue to increase due to our off-platform advertising opportunities and the growth of Stitcher.

#### Total Consolidated Revenue

Total Consolidated Revenue for the years ended December 31, 2021 and 2020, was \$8,696 and \$8,040, respectively, an increase of 8%, or \$656.

### Sirius XM Cost of Services

Sirius XM Cost of Services includes revenue share and royalties, programming and content, customer service and billing and transmission expenses.

Sirius XM Revenue Share and Royalties include royalties for transmitting content, including streaming royalties, as well as automaker, content provider and advertising revenue share.

For the years ended December 31, 2021 and 2020, revenue share and royalties were \$1,532 and \$1,484, respectively, an increase of 3%, or \$48, but decreased as a percentage of total Sirius XM revenue. The increase was driven by overall greater revenues subject to music royalties and revenue share.

We expect our Sirius XM revenue share and royalty costs to increase as our revenues grow.

Sirius XM Programming and Content includes costs to acquire, create, promote and produce content. We have entered into various agreements with third parties for music and non-music programming that require us to pay license fees and other amounts.

For the years ended December 31, 2021 and 2020, programming and content expenses were \$511 and \$449, respectively, an increase of 14%, or \$62, and increased as a percentage of total Sirius XM revenue. The increase was driven by higher content licensing costs.

We expect our Sirius XM programming and content expenses to increase as we offer additional programming and renew or replace expiring agreements.

Sirius XM Customer Service and Billing includes costs associated with the operation and management of internal and third party customer service centers, and our subscriber management systems as well as billing and collection costs, bad debt expense, and transaction fees.

For the years ended December 31, 2021 and 2020, customer service and billing expenses were \$415 and \$394, respectively, an increase of 5%, or \$21, and increased as a percentage of total Sirius XM revenue. The increase was driven by higher transaction costs, consulting, and personnel-related cost; partially offset by lower bad debt expense and lower call center expense.

We expect our Sirius XM customer service and billing expenses to increase as our subscriber base grows.

Sirius XM Transmission consists of costs associated with the operation and maintenance of our terrestrial repeater networks; satellites; satellite telemetry, tracking and control systems; satellite uplink facilities; studios; and delivery of our Internet and 360L streaming and connected vehicle services.

For the years ended December 31, 2021 and 2020, transmission expenses were \$159 and \$123, respectively, an increase of 29%, or \$36, and increased as a percentage of total Sirius XM revenue. The increase was primarily driven by higher costs associated with cloud hosting, wireless connectivity for our 360L platform, streaming content and our connected vehicle services.

We expect our Sirius XM transmission expenses to increase as costs associated with our 360L platform rise and investments in internet streaming grow.

Sirius XM Cost of Equipment includes costs from the sale of satellite radios, components and accessories and provisions for inventory allowance attributable to products purchased for resale in our direct to consumer distribution channels.

For the years ended December 31, 2021 and 2020, cost of equipment was \$18 and \$19, respectively, a decrease of 5%, or \$1, and decreased as a percentage of equipment revenue. The decrease was primarily due to lower direct sales to customers.

We expect our Sirius XM cost of equipment to fluctuate with the sales of our satellite radios.

#### Pandora Cost of Services

Pandora Cost of Services includes revenue share and royalties, programming and content, customer service and billing, and transmission expenses.

Pandora Revenue Share and Royalties includes licensing fees paid for streaming music or other content to our subscribers and listeners as well as revenue share paid to third party ad servers. We make payments to third party ad servers for the period the advertising impressions are delivered or click-through actions occur, and accordingly, we record this as a cost of service in the related period.

For the years ended December 31, 2021 and 2020, revenue share and royalties were \$1,140 and \$937, respectively, an increase of 22%, or \$203, but remained flat as a percentage of total Pandora revenue. The increase was primarily due to higher royalty rates associated with owned and operated revenue as well as higher AdsWizz revenue, the inclusion of Stitcher and the growth in other off-platform revenue.

We expect our Pandora revenue share to increase as off-platform revenue increases and our royalty costs to increase due to higher music royalty rates.

Pandora Programming and Content includes costs to produce live listener events and promote content.

For the years ended December 31, 2021 and 2020, programming and content expenses were \$48 and \$32, respectively, an increase of 50%, or \$16, and increased as a percentage of total Pandora revenue. The increase was primarily attributable to additional live events in 2021, higher license costs, and personnel-related costs driven by the inclusion of Stitcher.

We expect our Pandora programming and content costs to increase as we offer additional programming and produce live listener events and promotions.

Pandora Customer Service and Billing includes transaction fees on subscription purchases through mobile app stores and bad debt expense.

For the years ended December 31, 2021 and 2020, customer service and billing expenses were \$86 and \$87, respectively, a decrease of 1%, or \$1, and decreased as a percentage of total Pandora revenue. The decrease was primarily driven by lower bad debt expense, partially offset by higher transaction fees.

We expect our Pandora customer service and billing costs to decrease as our Pandora subscriber base declines and mobile app commissions fall.

Pandora Transmission includes costs associated with content streaming, maintaining our streaming radio and on-demand subscription services and creating and serving advertisements through third-party ad servers.

For the years ended December 31, 2021 and 2020, transmission expenses were \$59 and \$54, respectively, an increase of 9%, or \$5, but decreased as a percentage of total Pandora revenue. The increase was primarily driven by higher streaming costs.

We expect our Pandora transmission costs to fluctuate primarily as a result of changes in listener hours.

#### **Operating Costs**

Subscriber Acquisition Costs are costs associated with our satellite radio service and include hardware subsidies paid to radio manufacturers, distributors and automakers; subsidies paid for chipsets and certain other components used in manufacturing radios; device royalties for certain radios and chipsets; product warranty obligations; and freight. The majority of subscriber acquisition costs are incurred and expensed in advance of acquiring a subscriber. Subscriber acquisition costs do not include advertising costs, marketing, loyalty payments to distributors and dealers of satellite radios or revenue share payments to automakers and retailers of satellite radios.

For the years ended December 31, 2021 and 2020, subscriber acquisition costs were \$325 and \$362, respectively, a decrease of 10%, or \$37, and decreased as a percentage of total revenue. The decrease was driven by lower subsidies from contract improvements with certain automakers as well as lower costs resulting from the semiconductor supply shortages during 2021, partially offset by slightly higher OEM installations.

We expect subscriber acquisition costs to fluctuate with OEM installations. We intend to continue to offer subsidies and other incentives to induce OEMs to include our technology in their vehicles.

Sales and Marketing includes costs for marketing, advertising, media and production, including promotional events and sponsorships; cooperative and artist marketing; and personnel related costs including salaries, commissions, and sales support. Marketing costs include expenses related to direct mail, outbound telemarketing, email communications, social media, television and digital performance media.

For the years ended December 31, 2021 and 2020, sales and marketing expenses were \$1,056 and \$957, respectively, an increase of 10%, or \$99, and increased as a percentage of total revenue. The increase was primarily due to higher brand media, streaming and trial-related direct marketing costs as well as higher personnel-related costs

We anticipate that sales and marketing expenses will increase with growth in our trial subscriber base, as we expand programs to retain our existing subscribers, win back former subscribers, attract new subscribers and listeners, and as we grow advertising revenue.

Engineering, Design and Development consists primarily of compensation and related costs to develop chipsets and new products and services, including streaming and connected vehicle services, research and development for broadcast information systems and the design and development costs to incorporate Sirius XM radios into new vehicles manufactured by automakers.

For the years ended December 31, 2021 and 2020, engineering, design and development expenses were \$265 and \$263, respectively, an increase of 1%, or \$2, and decreased as a percentage of total revenue. The increase was driven primarily by higher personnel-related costs, and partially offset by lower research and development costs.

We expect engineering, design and development expenses to increase in future periods as we continue to develop our infrastructure, products and services.

General and Administrative primarily consists of compensation and related costs for personnel and facilities, and include costs related to our finance, legal, human resources and information technologies departments.

For the years ended December 31, 2021 and 2020, general and administrative expenses were \$514 and \$511, respectively, an increase of 1%, or \$3, and decreased as a percentage of total revenue. The increase was primarily driven by higher personnel-related, consulting and technology related costs, partially offset by lower contributions as a result of a \$25 donor advised fund created in 2020.

We expect our general and administrative expenses to remain relatively flat.

Depreciation and Amortization represents the recognition in earnings of the cost of assets used in operations, including our satellite constellations, property, equipment and intangible assets, over their estimated service lives.

For the years ended December 31, 2021 and 2020, depreciation and amortization expense was \$533 and \$506, respectively, an increase of 5%, or \$27, and decreased as a percentage of total revenue. The increase was driven by the addition of software that was developed.

Impairment, Restructuring and Acquisition Costs represents impairment charges, net of insurance recoveries, associated with the carrying amount of an asset exceeding the asset's fair value, restructuring expenses associated with the abandonment of certain leased office spaces and acquisition costs.

For the years ended December 31, 2021 and 2020, impairment, restructuring, and acquisition costs were \$20 and \$1,004, respectively. During 2021, we recorded restructuring costs of \$25 resulting from the termination of leased office space and \$12 related to acquisition costs, partially offset by the reversal of a liability related to the Stitcher acquisition. During 2020, we recorded a goodwill impairment charge of \$956 to reflect the carrying amount of the Pandora goodwill, an impairment charge of \$20 to write down the carrying value of our Pandora trademark, costs of \$24 associated with the termination of the Automatic service and costs associated with the acquisition of Simplecast.

#### Other Income (Expense)

Interest Expense includes interest on outstanding debt.

For the years ended December 31, 2021 and 2020, interest expense was \$415 and \$394, respectively, an increase of 5%, or \$21. The increase was primarily driven by a higher average outstanding debt balance as well as lower capitalized interest, partially offset by lower interest rates.

Loss on Extinguishment of Debt includes losses incurred as a result of the redemption of certain debt.

For the years ended December 31, 2021 and 2020, loss on extinguishment of debt was \$83 and \$40, respectively. The loss on extinguishment of debt recorded in 2021 was due to the redemption of \$1,000 principal amount of Sirius XM's 3.875% Senior Notes due 2022, \$1,500 principal amount of Sirius XM's 4.625% Senior Notes due 2024, and \$1,000 principal amount of Sirius XM's 5.375% Senior Notes due 2026. The loss on extinguishment of debt recorded in 2020 was due to the redemption of \$500 principal amount of Sirius XM's 4.625% Senior Notes due 2023 and \$1,000 principal amount of Sirius XM's 5.375% Senior Notes due 2025.

Other Income (Expense) primarily includes realized and unrealized gains and losses from our Deferred Compensation Plan and other investments, interest and dividend income, our share of the income or loss from equity investments in Sirius XM Canada and SoundCloud, and transaction costs related to non-operating investments.

For the years ended December 31, 2021 and 2020, other income was \$9 and \$6, respectively. Other income for the year ended December 31, 2021 was primarily driven by interest earned on our loan to Sirius XM Canada. Other income for the year ended December 31, 2020 was driven by a one-time lawsuit settlement of \$7.

#### Income Taxes

Income Tax Expense includes the change in our deferred tax assets, current federal and state tax expenses, and foreign withholding taxes.

For the years ended December 31, 2021 and 2020, income tax expense was \$212 and \$299, respectively, and our effective tax rate was 13.9% and 69.5%, respectively.

Our effective tax rate of 13.9% for the year ended December 31, 2021 was primarily impacted by settlements with various states as well as a benefit related to research and development and certain other credits, partially offset by federal and state income tax expense. Our effective tax rate of 69.5% for the year ended December 31, 2020 was primarily impacted by the nondeductible Pandora goodwill impairment charge, partially offset by the recognition of excess tax benefits related to share-based compensation, a benefit related to state and federal research and development and certain other credits and a worthless stock deduction associated with the termination of the Automatic service.

#### **Key Financial and Operating Performance Metrics**

In this section, we present certain financial performance measures, some of which are presented as Non-GAAP items, which include free cash flow and adjusted EBITDA. We also present certain operating performance measures. Our adjusted EBITDA excludes the impact of share-based payment expense and certain purchase price accounting adjustments related to the merger of Sirius and XM ("XM Merger") and our February 2019 acquisition of Pandora ("the Pandora Acquisition"). Additionally, when applicable, our adjusted EBITDA metric excludes the effect of significant items that do not relate to the on-going performance of our business. We use these Non-GAAP financial and operating performance measures to manage our business, to set operational goals and as a basis for determining performance-based compensation for our employees. See the accompanying Glossary for more details and for the reconciliation to the most directly comparable GAAP measure (where applicable).

We believe these Non-GAAP financial and operating performance measures provide useful information to investors regarding our financial condition and results of operations. We believe these Non-GAAP financial and operating performance measures may be useful to investors in evaluating our core trends because they provide a more direct view of our underlying costs. We believe investors may use our adjusted EBITDA to estimate our current enterprise value and to make investment decisions. We believe free cash flow provides useful supplemental information to investors regarding our cash available for future subscriber acquisitions and capital expenditures, to repurchase or retire debt, to acquire other companies and our ability to return capital to stockholders. By providing these Non-GAAP financial and operating performance measures, together with the reconciliations to the most directly comparable GAAP measure (where applicable), we believe we are enhancing investors' understanding of our business and our results of operations.

Our Non-GAAP financial measures should be viewed in addition to, and not as an alternative for or superior to, our reported results prepared in accordance with GAAP. In addition, our Non-GAAP financial measures may not be comparable to similarly-titled measures by other companies. Please refer to the Glossary for a further discussion of such Non-GAAP financial and operating performance measures and reconciliations to the most directly comparable GAAP measure (where applicable). Subscribers and subscription related revenues and expenses associated with our connected vehicle services and Sirius XM Canada are not included in Sirius XM's subscriber count or subscriber-based operating metrics.

Set forth below are our subscriber balances as of December 31, 2021 compared to December 31, 2020. Refer to our Form 10-K for the year ended December 31, 2020 filed with the SEC on February 2, 2021 for our subscriber balances as of December 31, 2020 compared to December 31, 2019.

	As of Dec	ember 31,	2021 vs 202	20 Change
(subscribers in thousands)	2021	2020	Amount	%
Sirius XM				
Self-pay subscribers	32,039	30,887	1,152	4 %
Paid promotional subscribers	1,994	3,827	(1,833)	(48)%
Ending subscribers	34,033	34,714	(681)	(2)%
Traffic users	8,568	9,301	(733)	(8)%
Sirius XM Canada subscribers	2,517	2,622	(105)	(4)%
Pandora				
Monthly active users - all services	52,275	58,882	(6,607)	(11)%
Self-pay subscribers	6,324	6,279	45	1 %
Paid promotional subscribers	69	62	7	11 %
Ending subscribers	6,393	6,341	52	1 %

The following table contains our Non-GAAP financial and operating performance measures which are based on our adjusted results of operations for the years ended December 31, 2021 and 2020. Refer to our Form 10-K for the year ended December 31, 2020 filed with the SEC on February 2, 2021 for our Non-GAAP financial and operating performance measures for the year ended December 31, 2020 compared with the year ended December 31, 2019.

		For the Years Ended December 31,		2021 vs 2020 Ch	nge		
(subscribers in thousands)		2021		2020		Amount	%
Sirius XM							
Self-pay subscribers		1,152		909		243	27 %
Paid promotional subscribers		(1,833)		(1,104)		(729)	(66)%
Net additions		(681)		(195)		(486)	(249)%
Weighted average number of subscribers		34,345		34,523		(178)	(1)%
Average self-pay monthly churn		1.6 %	)	1.7 %		(0.1)%	(6)%
ARPU (1)	\$	14.76	\$	14.10	\$	0.66	5 %
SAC, per installation	\$	12.58	\$	18.65	\$	(6.07)	(33)%
Pandora							
Self-pay subscribers		45		114		(69)	(61)%
Paid promotional subscribers		7		13		(6)	(46)%
Net additions	·	52		127		(75)	(59)%
Weighted average number of subscribers		6,487		6,315		172	3 %
ARPU	\$	6.69	\$	6.76	\$	(0.07)	(1)%
Ad supported listener hours (in billions)		11.55		12.50		(0.95)	(8)%
Advertising revenue per thousand listener hours (RPM)	\$	102.74	\$	79.24	\$	23.50	30 %
Licensing costs per thousand listener hours (LPM)	\$	48.63	\$	40.14	\$	8.49	21 %
Licensing costs per paid subscriber (LPU)	\$	4.23	\$	4.14	\$	0.09	2 %
Total Company							
Adjusted EBITDA	\$	2,770	\$	2,575	\$	195	8 %
Free cash flow	\$	1,831	\$	1,660	\$	171	10 %

<sup>(1)</sup> ARPU for Sirius XM excludes subscriber revenue from our connected vehicle services of \$190 and \$174 for the years ended December 31, 2021 and 2020, respectively.

#### Sirius XM

Subscribers. At December 31, 2021, we had approximately 34,033 subscribers, a decrease of approximately 681 subscribers, or 2%, from the approximately 34,714 subscribers as of December 31, 2020. The decrease in total subscribers was due to the decline in paid promotional subscribers, partially offset by growth in our self-pay subscriber base.

For the years ended December 31, 2021 and 2020, net subscriber additions were (681) and (195), respectively, a decline of 249%, or 486. Paid promotional subscribers decreased due to a shift to shorter paid or free trials at certain automakers. Self-pay net additions increased driven by higher new vehicle conversion resulting from vehicle sales growth during the first half of 2021, lower non-pay and voluntary churn, and a shift by automakers to shorter trial periods.

Traffic Users. We offer services that provide graphic information as to road closings, traffic flow and incident data to consumers with compatible in-vehicle navigation systems.

Average Self-pay Monthly Churn is derived by dividing the monthly average of self-pay deactivations for the period by the average number of self-pay subscribers for the period. (See accompanying Glossary for more details.)

For the years ended December 31, 2021 and 2020, our average self-pay monthly churn rate was 1.6% and 1.7%, respectively. The decrease was driven by lower non-pay churn and voluntary churn.

ARPU is derived from total earned subscriber revenue (excluding revenue derived from our connected vehicle services) and net advertising revenue, divided by the number of months in the period, divided by the daily weighted average number of subscribers for the period. (See the accompanying Glossary for more details.)

For the years ended December 31, 2021 and 2020, ARPU was \$14.76 and \$14.10, respectively. The increase was driven by an increase in certain subscription rates and the U.S. Music Royalty Fee as well as higher advertising revenue.

SAC, Per Installation, is derived from subscriber acquisition costs less margins from the sale of radios, components and accessories (excluding connected vehicle services), divided by the number of satellite radio installations in new vehicles and shipments of aftermarket radios for the period. (See the accompanying Glossary for more details.)

For the years ended December 31, 2021 and 2020, SAC, per installation, was \$12.58 and \$18.65, respectively. The decrease was driven by reductions to hardware subsidy rates for certain automakers.

#### Pandora

Monthly Active Users. At December 31, 2021, Pandora had approximately 52,275 monthly active users, a decrease of 6,607 monthly active users, or 11%, from the 58,882 monthly active users as of December 31, 2020. The decrease in monthly active users was driven by an increase in ad-supported listener churn and a decrease in the number of new users.

Subscribers. At December 31, 2021, Pandora had approximately 6,393 subscribers, an increase of 52, or 1%, from the approximately 6,341 subscribers as of December 31, 2020.

For the years ended December 31, 2021 and 2020, net subscriber additions were 52 and 127, respectively, a decrease of 59%, or 75. Net additions decreased as a result of a decline in trial starts, partially offset by lower churn.

ARPU is defined as average monthly revenue per paid subscriber on our Pandora subscription services. (See the accompanying Glossary for more details.)

For the years ended December 31, 2021 and 2020, ARPU was \$6.69 and \$6.76, respectively. The decrease in subscriber ARPU was primarily due to a change in the mix of Pandora's premium plans.

Ad supported listener hours are a key indicator of our Pandora business and the engagement of our Pandora listeners. We include ad supported listener hours related to Pandora's non-radio content offerings in the definition of listener hours.

For the years ended December 31, 2021 and 2020, ad supported listener hours was 11.55 billion and 12.50 billion, respectively. The decrease in ad supported listener hours was primarily driven by the decline in monthly active users, partially offset by higher hours per active user.

RPM is a key indicator of our ability to monetize advertising inventory created by our listener hours on the Pandora services. Ad RPM is calculated by dividing advertising revenue by the number of thousands of listener hours of our Pandora advertising-based service.

For the years ended December 31, 2021 and 2020, RPM was \$102.74 and \$79.24, respectively. The increase was a result of higher sell-through and pricing increases in advertising implemented by Pandora.

LPM is tracked for our non-subscription, ad-supported service across all Pandora delivery platforms. The content acquisition costs included in our ad LPM calculations are based on the rates set by our license agreements with record labels, performing rights organizations and music publishers or the applicable rates set by the Copyright Royalty Board if we have not entered into a license agreement with the copyright owner of a particular sound recording.

For the years ended December 31, 2021 and 2020, LPM was \$48.63 and \$40.14, respectively. The increase was primarily driven by higher eligible advertising revenue.

LPU is defined as average monthly licensing costs per paid subscriber on our Pandora subscription services. LPU is a key measure of our ability to manage costs for our subscription services.

For the years ended December 31, 2021 and 2020, LPU was \$4.23 and \$4.14, respectively. The increase was due to higher publisher and CRB rates in 2021.

#### Total Company

Adjusted EBITDA. EBITDA is defined as net income before interest expense, income tax expense and depreciation and amortization. Adjusted EBITDA excludes the impact of other expense (income), loss on extinguishment of debt, other non-cash charges, such as certain purchase price accounting adjustments, share-based payment expense, legal settlements and reserves, and impairment, restructuring and acquisition costs (if applicable). (See the accompanying Glossary for a reconciliation to GAAP and for more details.)

For the years ended December 31, 2021 and 2020, adjusted EBITDA was \$2,770 and \$2,575, respectively, an increase of 8%, or \$195. The increase was due to higher advertising and subscriber revenue as well as lower subscriber acquisition costs, partially offset by higher revenue share and royalties, sales and marketing, programming, and personnel-related costs.

Free Cash Flow includes cash provided by operations plus insurance recoveries on our satellites, net of additions to property and equipment, and restricted and other investment activity. (See the accompanying Glossary for a reconciliation to GAAP and for more details.)

For the years ended December 31, 2021 and 2020, free cash flow was \$1,831 and \$1,660, respectively, an increase of \$171, or 10%. The increase was driven by satellite insurance recoveries and growth in cash generated by operations, partially offset by higher spending on property and equipment and a decrease in deferred revenue driven by a shift to shorter term self-pay and trial subscriptions as well as a shift to free trials at certain automakers.

#### Liquidity and Capital Resources

The following table presents a summary of our cash flow activity for the year ended December 31, 2021 compared with the year ended December 31, 2020. Refer to our Form 10-K for the year ended December 31, 2020 filled with the SEC on February 2, 2021 for our cash flows for the year ended December 31, 2020 compared with the year ended December 31, 2019.

	For the Years Ended December 31,				
		2021		2020	2021 vs 2020
Net cash provided by operating activities	\$	1,998	\$	2,018	\$ (20)
Net cash used in investing activities		(200)		(741)	541
Net cash used in financing activities		(1,682)		(1,314)	(368)
Net increase (decrease) in cash, cash equivalents and restricted cash		116		(37)	153
Cash, cash equivalents and restricted cash at beginning of period		83		120	(37)
Cash, cash equivalents and restricted cash at end of period	\$	199	\$	83	\$ 116

#### Cash Flows Provided by Operating Activities

Cash flows provided by operating activities decreased by \$20 to \$1,998 for the year ended December 31, 2021 from \$2,018 for the year ended December 31, 2020.

Our largest source of cash provided by operating activities is cash generated by subscription and subscription-related revenues. We also generate cash from the sale of advertising through our Pandora business, advertising on certain non-music channels on Sirius XM and the sale of satellite radios, components and accessories. Our primary uses of cash from operating activities include revenue share and royalty payments to distributors, programming and content providers, and payments to radio manufacturers, distributors and automakers. In addition, uses of cash from operating activities include payments to vendors to service, maintain and acquire listeners and subscribers, general corporate expenditures, and compensation and related costs.

#### Cash Flows Used in Investing Activities

Cash flows used in investing activities in the year ended December 31, 2021 were primarily due to spending for capitalized software and hardware, and to construct a replacement satellite, partially offset by proceeds collected from satellite insurance policies associated with SXM-7. Cash flows used in investing activities in the year ended December 31, 2020 were primarily due to the acquisition of Stitcher of \$272, our \$75 investment in SoundCloud, the acquisition of Simplecast for \$28, spending for capitalized software and hardware, and to construct replacement satellites. We spent \$238 and \$242 on capitalized software and hardware as well as \$93 and \$57 to construct replacement satellites during the years ended December 31, 2021 and 2020, respectively.

#### Cash Flows Used in Financing Activities

Cash flows used in financing activities consists of the issuance and repayment of long-term debt, the purchase of common stock under our share repurchase program, the payment of cash dividends and taxes paid in lieu of shares issued for stock-based compensation. Proceeds from long term debt have been used to fund our operations, construct and launch new satellites, fund acquisitions, invest in other infrastructure improvements and purchase shares of our common stock.

Cash flows used in financing activities in the year ended December 31, 2021 were primarily due to the redemptions of Sirius XM's 3.875% Senior Notes due 2022 for \$1,019, 4.625% Senior Notes due 2024 for \$1,541 and 5.375% Senior Notes due 2026 for \$1,034, the purchase and retirement of shares of our common stock under our repurchase program for \$1,523, the payment of cash dividends of \$268, payment of \$103 for taxes in lieu of shares issued for share-based compensation, and the repayment of borrowings under our Credit Facility of \$653; partially offset by the issuance of \$2,000 in aggregate principal amount of Sirius XM's 4.00% Senior Notes due 2028, \$1,000 in aggregate principal amount of Sirius XM's 3.875% Senior Notes due 2023. Cash flows used in financing activities in the year ended December 31, 2020 were primarily due to the redemption of Sirius XM's 4.625% Senior Notes due 2023 in the aggregate amount of \$505 and Sirius XM's 5.375% Senior Notes due 2025 in the aggregate amount of \$1,033, the purchase and retirement of shares of our common stock under our repurchase program for \$1,555, the payment of cash dividends of \$237 and payment of \$114 for taxes in lieu of shares issued for share-based compensation; partially offset by the issuance of \$1,481 in aggregate principal amount of Sirius XM's 4.125% Senior Notes due 2030, net of costs, and net borrowings of \$649 from the Credit Facility.

#### Future Liquidity and Capital Resource Requirements

Based upon our current business plans, we expect to fund operating expenses, capital expenditures, including the construction of replacement satellites, working capital requirements, interest payments, taxes and scheduled maturities of our debt with existing cash, cash flow from operations and borrowings under our Credit Facility. As of December 31, 2021, no amounts were outstanding under our Credit Facility. As the amount available for future borrowing is reduced by \$1 related to letters of credit issued for the benefit of Pandora, \$1,749 was available for future borrowing under our Credit Facility. We believe that we have sufficient cash and cash equivalents, as well as debt capacity, to cover our estimated short-term and long-term funding needs, including amounts to construct, launch and insure replacement satellites, as well as fund future stock repurchases, future dividend payments and to pursue strategic opportunities.

Our ability to meet our debt and other obligations depends on our future operating performance and on economic, financial, competitive and other factors. We continually review our operations for opportunities to adjust the timing of expenditures to ensure that sufficient resources are maintained.

We regularly evaluate our business plans and strategy. These evaluations often result in changes to our business plans and strategy, some of which may be material and significantly change our cash requirements. These changes in our business plans or strategy may include: the acquisition of unique or compelling programming; the development and introduction of new features or services; significant new or enhanced distribution arrangements; investments in infrastructure, such as satellites, equipment or radio spectrum; and acquisitions and investments, including acquisitions and investments that are not directly related to our existing business.

We may from time to time purchase our outstanding debt through open market purchases, privately negotiated transactions or otherwise. Purchases or retirement of debt, if any, will depend on prevailing market conditions, liquidity requirements, contractual restrictions and other factors. The amounts involved may be material.

#### Capital Return Program

As of December 31, 2021, our board of directors had authorized for repurchase an aggregate of \$18,000 of our common stock. As of December 31, 2021, our cumulative repurchases since December 2012 under our stock repurchase program totaled 3,559 shares for \$15,920, and \$2,080 remained available for additional repurchases under our existing stock repurchase program authorization.

Shares of common stock may be purchased from time to time on the open market and in privately negotiated transactions, including in accelerated stock repurchase transactions and transactions with Liberty Media and its affiliates. We intend to fund the additional repurchases through a combination of cash on hand, cash generated by operations and future borrowings. The size and timing of any purchases will be based on a number of factors, including price and business and market conditions.

On January 26, 2022, our board of directors declared a quarterly dividend in the amount of \$0.0219615 per share of common stock payable on February 25, 2022 to stockholders of record as of the close of business on February 11, 2022. Our board of directors expects to declare regular quarterly dividends, in an aggregate annual amount of \$0.087846 per share of common stock.

On January 31, 2022, our board of directors declared a special cash dividend on our common stock in the amount of \$0.25 per share of common stock payable on February 25, 2022 to stockholders of record as of the close of business on February 11, 2022.

#### **Debt Covenants**

The indentures governing Sirius XM's senior notes and Pandora's convertible notes and the agreement governing the Sirius XM Credit Facility include restrictive covenants. As of December 31, 2021, we were in compliance with such covenants. For a discussion of our "Debt Covenants," refer to Note 13 to our consolidated financial statements in Part II, Item 8, of this Annual Report on Form 10-K.

#### Off-Balance Sheet Arrangements

We do not have any significant off-balance sheet arrangements other than those disclosed in Note 16 to our consolidated financial statements in Part II, Item 8, of this Annual Report on Form 10-K that are reasonably likely to have a material effect on our financial condition, results of operations, liquidity, capital expenditures or capital resources.

## Contractual Cash Commitments

For a discussion of our "Contractual Cash Commitments," refer to Note 16 to our consolidated financial statements in Part II, Item 8, of this Annual Report on Form 10-K

## Related Party Transactions

For a discussion of "Related Party Transactions," refer to Note 12 to our consolidated financial statements in Part II, Item 8, of this Annual Report on Form 10-K.

#### Critical Accounting Policies and Estimates

Our consolidated financial statements are prepared in accordance with GAAP, which 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 revenues and expenses during the periods. Accounting estimates require the use of significant management assumptions and judgments as to future events, and the effect of those events cannot be predicted with certainty. The accounting estimates will change as new events occur, more experience is acquired and more information is obtained. We evaluate and update our assumptions and estimates on an ongoing basis and use outside experts to assist in that evaluation when we deem necessary. We have identified all significant accounting policies in Note 2 to our consolidated financial statements in Part II, Item 8, of this Annual Report on Form 10-K.

Intangible Assets and Purchase Accounting. We perform purchase price accounting upon an acquisition. We allocate the purchase consideration to the identifiable assets acquired and liabilities assumed based on their fair values at the acquisition date. The excess of the purchase consideration over the fair value of assets acquired and liabilities assumed is recorded as goodwill. The determination of the acquisition date fair value of the assets acquired and liabilities assumed required us to make significant estimates and assumptions regarding projected revenues and related growth rates, royalty rates, customer attrition rates, discount rates and the remaining useful lives of intangible and other long-term assets. Our intangible assets include goodwill, other indefinite-lived assets (our FCC licenses and trademarks) and definite-lived assets. Our annual impairment assessment of our goodwill and our indefinite-lived assets is performed as of the fourth quarter of each year. We also review our intangible assets for impairment whenever events or changes in circumstances indicate that the carrying amount of an asset is not recoverable. If an impairment exists, the impairment is measured as the amount by which the carrying amount of an intangible asset exceeds its estimated fair value.

• Goodwill: ASC 350, Intangibles - Goodwill and Other, states that an entity should perform its annual or interim goodwill impairment test by comparing the fair value of a reporting unit with its carrying amount and recognize an impairment charge for the amount by which the carrying amount exceeds the reporting unit's fair value. Under the updated guidance per Accounting Standards Update ("ASU") 2017-04, Intangibles - Goodwill and Other (Topic 350): Simplifying the Test for Goodwill Impairment the requirements for any reporting unit with a zero or negative carrying amount to perform a qualitative assessment is eliminated. In accordance with updated guidance, we recognize goodwill impairment as the difference between the carrying amount of a reporting unit and its fair value, but not to exceed the carrying amount of goodwill.

Based on our annual impairment test for goodwill as of October 1, 2021, there were no indicators of impairment, and no impairment losses were recorded for goodwill during the year ended December 31, 2021.

Based on our annual impairment test for goodwill as of October 1, 2020, we recognized an impairment charge of \$956 to reduce the carrying amount of our Pandora reporting unit to its fair value. The impairment was primarily due to a reduction in the long-term forecast to reflect an increase in expected royalties for streaming, increased uncertainty surrounding the projected demand for advertising and a decrease of listening hours. Fair value was determined using a combination of an income approach, using a discounted cash flow model ("DCF"), and a market approach. The DCF model included significant assumptions about revenue growth rates, long-term growth rates and enterprise specific discount rates. Additionally, assumptions related to guideline company financial multiples used in the market approach decreased based on current market observations.

• Indefinite-lived Assets: ASC 350-30-35, Intangibles - General Intangibles Other than Goodwill provides for an option to first perform a qualitative assessment to determine whether it is more likely than not that an asset is impaired. If the qualitative assessment supports that it is more likely than not that the fair value of the asset exceeds its carrying value, a company is not required to perform a quantitative impairment test. If the qualitative assessment does not support that the fair value of the asset exceeds its carrying value, then a quantitative assessment is performed. We recognize impairment as the difference between the carrying amount of an asset and its estimated fair value.

Based on our annual impairment test for indefinite-lived assets as of October 1, 2021, there were no indicators of impairment, and no impairment losses were recorded for indefinite-lived assets during the year ended December 31, 2021.

Based on our annual impairment test for indefinite-lived assets as of October 1, 2020, we recognized an impairment charge of \$20 to reduce the carrying amount of our Pandora trademark to its fair value. Fair value was determined using a DCF model. The DCF model included significant assumptions about revenue growth rates, long-term growth rates and enterprise specific discount rates.

• Definite-lived Assets: We carry our definite-lived assets at cost less accumulated amortization. We assess definite-lived assets for recoverability whenever events or changes in circumstances indicate that its carrying amount may not be recoverable. If an event or circumstance is identified indicating the carrying value may not be recoverable, the sum of

future undiscounted cash flows is compared to the carrying value. If carrying value exceeds the future undiscounted cash flows, the carrying value of the asset is reduced to its fair value. The fair value of assets is determined as either the expected selling price less selling costs (where appropriate) or the present value of the estimated future cash flows, adjusted as necessary for market factors.

Useful Life of Broadcast/Transmission System. Our satellite system includes the costs of our satellite construction, launch vehicles, launch insurance, capitalized interest, spare satellites, terrestrial repeater network and satellite uplink facilities. We monitor our satellites for impairment whenever events or changes in circumstances indicate that the carrying amount of the asset is not recoverable.

We operate two in-orbit Sirius satellites, FM-5 and FM-6, which launched in 2009 and 2013, respectively, and estimate they will operate effectively through the end of their depreciable lives in 2024 and 2028, respectively.

We currently operate four in-orbit XM satellites, XM-3, XM-4, XM-5 and SXM-8. Our XM-3 satellite launched in 2005 reached the end of its depreciable life in 2020 and our XM-4 satellite launched in 2006 reached the end of its depreciable life in 2021. Our XM-5 satellite was launched in 2010, is used as an in-orbit spare for the Sirius and XM systems and is expected to reach the end of its depreciable life in 2025. SXM-7 was launched into a geostationary orbit in December 2020 and in-orbit testing of SXM-7 began on January 4, 2021. During in-orbit testing of SXM-7, events occurred which caused failures of certain SXM-7 payload units. The evaluation of SXM-7 concluded that the satellite will not function as intended and the asset was fully impaired in 2021. Our SXM-8 satellite was successfully launched into a geostationary orbit on June 6, 2021 and was placed into service on September 8, 2021 following the completion of in-orbit testing. The SXM-8 satellite replaced our XM-3 satellite, which remains available as an in-orbit spare along with XM-5. We have entered into agreements for the design, construction and launch of two satellites, SXM-9 and SXM-10.

Our satellites have been designed to last fifteen-years. Our in-orbit satellites may experience component failures which could adversely affect their useful lives. We monitor the operating condition of our in-orbit satellites and if events or circumstances indicate that the depreciable lives of our in-orbit satellites have changed, we will modify the depreciable life accordingly. If we were to revise our estimates, our depreciation expense would change.

Income Taxes. Deferred income taxes are recognized for the tax consequences related to temporary differences between the carrying amount of assets and liabilities for financial reporting purposes and the amounts used for tax purposes, based on enacted tax laws and statutory tax rates applicable to the periods in which the differences are expected to affect taxable income.

We assess the recoverability of deferred tax assets at each reporting date and, where applicable, a valuation allowance is recognized when, based on the weight of all available evidence, it is considered more likely than not that all, or some portion, of the deferred tax assets will not be realized. Our assessment includes an analysis of whether deferred tax assets will be realized in the ordinary course of operations based on the available positive and negative evidence, including the scheduling of deferred tax liabilities and forecasted income from operations. The underlying assumptions we use in forecasting future taxable income require significant judgment. In the event that actual income from operations differs from forecasted amounts, or if we change our estimates of forecasted income from operations, we could record additional charges or reduce allowances in order to adjust the carrying value of deferred tax assets to their realizable amount. Such adjustments could be material to our consolidated financial statements.

As of December 31, 2021, we had a valuation allowance of \$83 relating to deferred tax assets that are not more likely than not to be realized due to the timing of certain state net operating loss limitations and acquired net operating losses that were not likely to be utilized.

ASC 740, *Income Taxes*, requires a company to first determine whether it is more likely than not that a tax position will be sustained based on its technical merits as of the reporting date, assuming that taxing authorities will examine the position and have full knowledge of all relevant information. A tax position that meets this more likely than not threshold is then measured and recognized at the largest amount of benefit that is greater than fifty percent likely to be realized upon effective settlement with a taxing authority. If the tax position is not more likely than not to be sustained, the gross amount of the unrecognized tax position will not be recorded in the financial statements but will be shown in tabular format within the uncertain income tax positions. Changes in recognition or measurement are reflected in the period in which the change in judgment occurs due to the following conditions: (1) the tax position is "more likely than not" to be sustained, (2) the tax position, amount, and/or timing is ultimately settled through negotiation or litigation, or (3) the statute of limitations for the tax position has expired. A number of years may elapse before an uncertain tax position is effectively settled or until there is a lapse in the applicable statute of limitations. We record interest and penalties related to uncertain tax positions in Income tax expense in our consolidated statements of comprehensive income. As of December 31, 2021, the gross liability for income taxes associated with uncertain tax positions was \$179.

#### Glossary

Monthly active users - the number of distinct registered users on the Pandora services, including subscribers, which have consumed content within the trailing 30 days to the end of the final calendar month of the period. The number of monthly active users on the Pandora services may overstate the number of unique individuals who actively use our Pandora service, as one individual may use multiple accounts. To become a registered user on the Pandora services, a person must sign-up using an email address or phone number, or access our service using a device with a unique identifier, which we use to create an account for our service.

Average self-pay monthly churn - for satellite-enabled subscriptions, the Sirius XM monthly average of self-pay deactivations for the period divided by the average number of self-pay subscribers for the period.

Adjusted EBITDA is defined as net income before interest expense, income tax expense and depreciation and amortization. We adjust EBITDA to exclude the impact of other expense (income) as well as certain other charges discussed below. Adjusted EBITDA is a Non-GAAP financial measure that excludes or adjusts for (if applicable): (i) certain adjustments as a result of the purchase price accounting for the XM Merger and the Pandora Acquisition, (ii) share-based payment expense, (iii) impairment, restructuring and acquisition costs, (iv) legal settlements/reserves and (v) other significant operating expense (income) that do not relate to the on-going performance of our business. We believe adjusted EBITDA is a useful measure of the underlying trend of our operating performance, which provides useful information about our business apart from the costs associated with our capital structure and purchase price accounting. We believe investors find this Non-GAAP financial measure useful when analyzing our past operating performance with our current performance and comparing our operating performance to the performance of other communications, entertainment and media companies. We believe investors use adjusted EBITDA to estimate our current enterprise value and to make investment decisions. As a result of large capital investments in our satellite radio system, our results of operations reflect significant charges for depreciation expense. We believe the exclusion of share-based payment expense is useful as it is not directly related to the operational conditions of our business. We also believe the exclusion of the legal settlements and reserves, impairment, restructuring and acquisition related costs, and loss on extinguishment of debt, to the extent they occur during the period, is useful as they are significant expenses not incurred as part of our normal operations for the period.

Adjusted EBITDA has certain limitations in that it does not take into account the impact to our consolidated statements of comprehensive income of certain expenses, including share-based payment expense and certain purchase price accounting for the XM Merger and the Pandora Acquisition. We endeavor to compensate for the limitations of the Non-GAAP measure presented by also providing the comparable GAAP measure with equal or greater prominence and descriptions of the reconciling items, including quantifying such items, to derive the Non-GAAP measure. Investors that wish to compare and evaluate our operating results after giving effect for these costs, should refer to net income as disclosed in our consolidated statements of comprehensive income. Since adjusted EBITDA is a Non-GAAP financial performance measure, our calculation of adjusted EBITDA may be susceptible to varying calculations; may not be comparable to other similarly titled measures of other companies; and should not be considered in isolation, as a substitute for, or superior to measures of financial performance prepared in accordance with GAAP. The reconciliation of net income to the adjusted EBITDA is calculated as follows:

	For the Years	Ended December 31,
	2021	2020
Net income:	\$ 1,31	4 \$ 131
Add back items excluded from Adjusted EBITDA:		
Legal settlements and reserves	-	<b>–</b> (16)
Impairment, restructuring and acquisition costs	2	0 1,004
Share-based payment expense (1)	20	2 223
Depreciation and amortization	53	3 506
Interest expense	41	5 394
Loss on extinguishment of debt	8	3 40
Other income	(	9) (6)
Income tax expense	21	2 299
Purchase price accounting adjustments:		
Revenues	_	_ 6
Operating expenses	-	- (6)
Adjusted EBITDA	\$ 2,77	0 \$ 2,575

### (1) Allocation of share-based payment expense:

	For the Years Ended December 31,				
(in millions)	2021		2020		
Programming and content	\$	33	\$	32	
Customer service and billing		6		6	
Transmission		6		6	
Sales and marketing		58		68	
Engineering, design and development		36		43	
General and administrative		63		68	
Total share-based payment expense	\$	202	\$	223	

Free cash flow - is derived from cash flow provided by operating activities plus insurance recoveries on our satellites, net of additions to property and equipment and purchases of other investments. Free cash flow is a metric that our management and board of directors use to evaluate the cash generated by our operations, net of capital expenditures and other investment activity. In a capital intensive business, with significant investments in satellites, we look at our operating cash flow, net of these investing cash outflows, to determine cash available for future subscriber acquisition and capital expenditures, to repurchase or retire debt, to acquire other companies and to evaluate our ability to return capital to stockholders. We exclude from free cash flow certain items that do not relate to the on-going performance of our business, such as cash flows related to acquisitions, strategic and short-term investments, and net loan activity with related parties and other equity investees. We believe free cash flow is an indicator of the long-term financial stability of our business. Free cash flow, which is reconciled to "Net cash provided by operating activities," is a Non-GAAP financial measure. This measure can be calculated by deducting amounts under the captions "Additions to property and equipment" and deducting or adding Restricted and other investment activity from "Net cash provided by operating activities" from the consolidated statements of cash flows. Free cash flow should be used in conjunction with other GAAP financial performance measures and may not be comparable to free cash flow measures presented by other companies. Free cash flow should be viewed as a supplemental measure rather than an alternative measure of cash flows from operating activities, as determined in accordance with GAAP. Free cash flow is limited and does not represent remaining cash flows available for discretionary expenditures due to the fact that the measure does not deduct the payments required for debt maturities. We beli

	For the Years Ended December 31,		ember 31,	
		2021		2020
Cash Flow information				
Net cash provided by operating activities	\$	1,998	\$	2,018
Net cash used in investing activities		(200)		(741)
Net cash used in financing activities		(1,682)		(1,314)
Free Cash Flow				
Net cash provided by operating activities		1,998		2,018
Additions to property and equipment		(388)		(350)
Purchases of other investments		(4)		(8)
Satellite insurance recoveries		225		_
Free cash flow	\$	1,831	\$	1,660

ARPU - Sirius XM ARPU is derived from total earned subscriber revenue (excluding revenue associated with our connected vehicle services) and advertising revenue, divided by the number of months in the period, divided by the daily weighted average number of subscribers for the period. Pandora ARPU is defined as average monthly subscriber revenue per paid subscriber on our Pandora subscription services.

<u>Subscriber acquisition cost, per installation</u> - or SAC, per installation, is derived from subscriber acquisition costs less margins from the sale of radios and accessories (excluding connected vehicle services), divided by the number of satellite radio installations in new vehicles and shipments of aftermarket radios for the period. SAC, per installation, is calculated as follows:

	For the Years Ended December 31,		
	 2021		2020
Subscriber acquisition costs, excluding connected vehicle services	\$ 325	\$	362
Less: margin from sales of radios and accessories, excluding connected vehicle services	(183)		(154)
	\$ 142	\$	208
Installations	 11,174		11,091
SAC, per installation (a)	\$ 12.58	\$	18.65

(a) Amounts may not recalculate due to rounding.

Ad supported listener hours - is based on the total bytes served over our Pandora advertising supported platforms for each track that is requested and served from our Pandora servers, as measured by our internal analytics systems, whether or not a listener listens to the entire track. For non-music content such as podcasts, episodes are divided into approximately track-length parts, which are treated as tracks. To the extent that third-party measurements of advertising hours are not calculated using a similar server-based approach, the third-party measurements may differ from our measurements.

**RPM** - is calculated by dividing advertising revenue, excluding AdsWizz and other off-platform revenue, by the number of thousands of listener hours on our Pandora advertising-based service.

LPM - is calculated by dividing advertising licensing costs by the number of thousands of listener hours on our Pandora advertising-based service.

**LPU** - is calculated by dividing subscriber licensing costs by the number of paid subscribers on our Pandora subscription services.

#### ITEM 7A. QUANTITATIVE AND QUALITATIVE DISCLOSURE ABOUT MARKET RISK

As of December 31, 2021, we did not hold or issue any derivatives. We hold investments in money market funds and certificates of deposit. These securities are consistent with the objectives contained within our investment policy. The basic objectives of our investment policy are the preservation of capital, maintaining sufficient liquidity to meet operating requirements and maximizing yield.

As of December 31, 2021, we also held the following investment:

In connection with the recapitalization of Sirius XM Canada on May 25, 2017, we loaned Sirius XM Canada \$130.8 million. The loan is considered a long-term investment with any unrealized gains or losses reported within Accumulated other comprehensive (loss) income. The loan has a term of fifteen years, bears interest at a rate of 7.62% per annum and includes customary covenants and events of default, including an event of default relating to Sirius XM Canada's failure to maintain specified leverage ratios. The carrying value of the loan as of December 31, 2021 was \$120.0 million and approximated its fair value. The loan is denominated in Canadian dollars and it is subject to changes in foreign currency. Had the Canadian to U.S. dollar exchange rate been 10% lower as of December 31, 2021, the value of this loan would have been approximately \$12.0 million lower.

Our debt includes fixed rate instruments and the fair market value of our debt is sensitive to changes in interest rates. Sirius XM's borrowings under the Credit Facility carry a variable interest rate, which is currently based on LIBOR, plus an applicable rate based on its debt to operating cash flow ratio. We currently do not use interest rate derivative instruments to manage our exposure to interest rate fluctuations.

#### ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA

See the Index to Consolidated Financial Statements and financial statements and financial statement schedule contained in Part IV, Item 15, herein, which are incorporated herein by reference.

#### ITEM 9. CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS ON ACCOUNTING AND FINANCIAL DISCLOSURE

None

#### ITEM 9A. CONTROLS AND PROCEDURES

#### **Controls and Procedures**

We maintain disclosure controls and procedures that are designed to ensure that information required to be disclosed in our reports under the Exchange Act is recorded, processed, summarized and reported within the time periods specified in the Securities and Exchange Commission's rules and forms, and that such information is accumulated and communicated to our management, including our principal executive officer and principal financial officer, as appropriate, to allow timely decisions regarding required disclosures. Any controls and procedures, no matter how well designed and operated, can provide only reasonable assurance of achieving the desired control objectives. An evaluation was performed under the supervision and with the participation of our management, including Jennifer C. Witz, our Chief Executive Officer, and Sean S. Sullivan, our Executive Vice President and Chief Financial Officer, of the effectiveness of the design and operation of our disclosure controls and procedures (as that term is defined in Rule 13a-15(e) and 15d-15(e) under the Exchange Act) as of December 31, 2021. Based on that evaluation, our management, including our Chief Executive Officer and our Chief Financial Officer, concluded that our disclosure controls and procedures were effective as of December 31, 2021 at the reasonable assurance level.

There has been no change in our internal control over financial reporting (as that term is defined in Rule 13a-15(f) and 15d-15(f) under the Exchange Act) during the year ended December 31, 2021 that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.

### Management's Report on Internal Control over Financial Reporting

Our management is responsible for establishing and maintaining adequate internal control over financial reporting as defined in Rule 13a-15(f) and 15d-15(f) under the Exchange Act. We have performed an evaluation under the supervision and with the participation of our management, including our Chief Executive Officer and our Chief Financial Officer, of the effectiveness of our internal control over financial reporting. Our management used the Internal Control-Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission to perform this evaluation. Based

on that evaluation, our management, including our Chief Executive Officer and Chief Financial Officer, concluded that our internal control over financial reporting was effective as of December 31, 2021.

KPMG LLP, an independent registered public accounting firm, which has audited and reported on the consolidated financial statements contained in this Annual Report on Form 10-K, has issued its report on the effectiveness of our internal control over financial reporting.

#### Audit Report of the Independent Registered Public Accounting Firm

The effectiveness of our internal control over financial reporting as of December 31, 2021 has been audited by KPMG LLP, an independent registered public accounting firm, as stated in their audit report appearing on page F-4 of this Annual Report on Form 10-K.

### ITEM 9B. OTHER INFORMATION

None.

## ITEM 9C. DISCLOSURE REGARDING FOREIGN JURISDICTIONS THAT PREVENT INSPECTIONS

None.

#### PART III

#### ITEM 10. DIRECTORS, EXECUTIVE OFFICERS AND CORPORATE GOVERNANCE

Information about our executive officers is contained in the discussion entitled "Information About Our Executive Officers" in Part I of this Annual Report on Form 10-K

The additional information required by this Item 10 is incorporated in this report by reference to the applicable information in our definitive proxy statement for the 2022 annual meeting of stockholders set forth under the captions *Stock Ownership*, *Governance of the Company*, *Item 1*. *Election of Directors* and *Item 2*. *Ratification of Independent Registered Public Accountants*, which we expect to file with the Securities and Exchange Commission prior to April 30, 2022.

#### **Code of Ethics**

We have adopted a code of ethics that applies to all employees, including executive officers, and to directors. The Code of Ethics is available on the Corporate Governance page of our website at www.siriusxm.com. If we ever were to amend or waive any provision of our Code of Ethics that applies to our principal executive officer, principal financial officer, principal accounting officer or any person performing similar functions, we intend to satisfy our disclosure obligations with respect to any such waiver or amendment by posting such information on our internet website set forth above rather than filing a Form 8-K.

#### ITEM 11. EXECUTIVE COMPENSATION

The information required by this Item 11 is incorporated in this report by reference to the applicable information in our definitive proxy statement for the 2022 annual meeting of stockholders set forth under the captions *Item 1. Election of Directors* and *Executive Compensation*, which we expect to file with the Securities and Exchange Commission prior to April 30, 2022.

#### ITEM 12. SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT AND RELATED STOCKHOLDER MATTERS

Certain information required by this Item 12 is set forth under the heading "Equity Compensation Plan Information" in Part II, Item 5, of this Annual Report on Form 10-K.

The additional information required by this Item 12 is incorporated in this report by reference to the applicable information in our definitive proxy statement for the 2022 annual meeting of stockholders set forth under the caption *Stock Ownership*, which we expect to file with the Securities and Exchange Commission prior to April 30, 2022.

#### ITEM 13. CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS AND DIRECTOR INDEPENDENCE

The information required by this Item 13 is incorporated in this report by reference to the applicable information in our definitive proxy statement for the 2022 annual meeting of stockholders set forth under the captions *Governance of the Company* and *Item 1. Election of Directors*, which we expect to file with the Securities and Exchange Commission prior to April 30, 2022.

## ITEM 14. PRINCIPAL ACCOUNTANT FEES AND SERVICES

Our independent registered public accounting firm is KPMG LLP, New York, NY, Auditor ID: 185.

The information required by this Item 14 is incorporated in this report by reference to the applicable information in our definitive proxy statement for the 2022 annual meeting of stockholders set forth under the caption *Item 2. Ratification of Independent Registered Public Accountants-Principal Accountant Fees and Services*, which we expect to file with the Securities and Exchange Commission prior to April 30, 2022.

#### PART IV

## ITEM 15. EXHIBIT AND FINANCIAL STATEMENT SCHEDULES

Documents filed as part of this report:

- $(1)\ \ Financial\ Statements.\ See\ Index\ to\ Consolidated\ Financial\ Statements\ appearing\ on\ page\ F-1.$
- (2) Financial Statement Schedules. See Index to Consolidated Financial Statements appearing on page F-1.
- (3) Exhibits. See Exhibit Index, which is incorporated herein by reference.

## ITEM 16. FORM 10-K SUMMARY

None.

Exhibit

Description

#### EXHIBIT INDEX

2.1	Certificate of Ownership and Merger, dated as of January 12, 2011, merging XM Satellite Radio Inc. with and into Sirius XM Radio Inc. (incorporated by reference to Exhibit 3.1 to Sirius XM Radio Inc.'s Current Report on Form 8-K filed on January 12, 2011 (File No. 001-34295)).
2.2	Agreement and Plan of Merger, dated as of November 14, 2013, by and among Sirius XM Radio Inc., Sirius XM Holdings Inc. and Sirius XM Merger Sub Inc. (incorporated by reference to Exhibit 2.1 to Sirius XM Holdings Inc.'s Current Report on Form 8-K filed on November 15, 2013 (File No. 001-34295)).
2.3	Agreement and Plan of Merger and Reorganization by and among Sirius XM Holdings Inc., Pandora Media, Inc. and White Oaks Acquisition Corp., dated as of September 23, 2018 (incorporated by reference to Exhibit 2.1 to Sirius XM Holdings Inc.'s Current Report on Form 8-K filed on September 24, 2018 (File No. 001-34295)).
3.1	Amended and Restated Certificate of Incorporation of Sirius XM Holdings Inc. (incorporated by reference to Exhibit 3.1 to Sirius XM Holdings Inc.'s Current Report on Form 8-K filed on November 15, 2013 (File No. 001-34295)).
3.2	Amended and Restated By-Laws of Sirius XM Holdings Inc. (incorporated by reference to Exhibit 3.2 to Sirius XM Holdings Inc.'s Current Report on Form 8-K filed on November 15, 2013 (File No. 001-34295)).
4.1	Form of certificate for shares of Sirius XM Holdings Inc.'s common stock (incorporated by reference to Exhibit 4.1 to Sirius XM Holdings Inc.'s Annual Report on Form 10-K for the year ended December 31, 2013 (File No. 001-34295)).
4.2	Indenture, dated as of July 5, 2017, among Sirius XM Radio Inc., the guarantors named therein and U.S. Bank National Association, as trustee, relating to the 5,000% Senior Notes due 2027 (incorporated by reference to Exhibit 4.2 to Sirius XM Holdings Inc.'s Current Report on Form 8-K filed on July 5, 2017 (File No. 001-34295)).
4.3	Indenture, dated as of June 7, 2019, among Sirius XM Radio Inc., the guarantors named therein and U.S. Bank National Association, as trustee, relating to the 5.500% Senior Notes due 2029 (incorporated by reference to Exhibit 4.1 to Sirius XM Holdings Inc.'s Current Report on Form 8-K filed on June 7, 2019 (File No. 001-34295)).
4.4	First Supplemental Indenture, dated as of January 31, 2019, relating to the 1.75% Convertible Senior Notes due 2023, between Pandora Media, Inc. and Citibank, N.A., as trustee (incorporated by reference to Exhibit 4.1 to Sirius XM Holdings Inc.'s Current Report on Form 8-K filed on January 31, 2019 (File No. 001-34295)).
4.5	Third Supplemental Indenture, dated as of February 1, 2019, relating to the 1.75% Convertible Senior Notes due 2023, among Pandora Media, LLC (f/k/a Pandora Media, Inc.), Sirius XM Holdings Inc. and Citibank, N.A. as trustee ((incorporated by reference to Exhibit 4.1 to Sirius XM Holdings Inc.'s Current Report on Form 8-K filed on February 1, 2019 (File No. 001-34295)).
4.6	Indenture, dated as of June 11, 2020, relating to the 4.125% Senior Notes due 2030, among Sirius XM Radio Inc., the guarantors named therein and U.S. Bank National Association, as trustee, including the form of 4.125% Senior Notes due 2030 (incorporated by reference to Exhibit 4.1 to Sirius XM Holdings Inc.'s Current Report on Form 8-K dated June 11, 2020 (File No. 001-34295)).
4.7	Indenture, dated as of June 21, 2021, relating to the 4.000% Senior Notes due 2028, among Sirius XM Radio Inc., the guarantors named therein and U.S. Bank National Association, as trustee, including the form of 4.000% Senior Notes due 2028 (incorporated by reference to Exhibit 4.1 to Sirius XM Holdings Inc.'s Current Report on Form 8-K dated June 21, 2021 (File No. 001-34295)).
4.8	Indenture, dated as of August 16, 2021, relating to the 3.125% Senior Notes due 2026, among Sirius XM Radio Inc., the guarantors named therein and U.S. Bank National Association, as trustee, including the form of 3.125% Senior Notes due 2026 (incorporated by reference to Exhibit 4.1 to Sirius XM Holdings Inc.'s Current Report on Form 8-K dated August 16, 2021 (File No. 001-34295)).
4.9	Indenture, dated as of August 16, 2021, relating to the 3.875% Senior Notes due 2031, among Sirius XM Radio Inc., the guarantors named therein and U.S. Bank National Association, as trustee, including the form of 3.875% Senior Notes due 2031 (incorporated by reference to Exhibit 4.2 to Sirius XM Holdings Inc.'s Current Report on Form 8-K dated August 16, 2021 (File No. 001-34295)).

4.11 Assignment and Assumption of Investment Agreement among Sirius XM Radio Inc., Sirius XM Holdings Inc. and Liberty Radio LLC, dated as of November 15, 2013 (incorporated by reference to Exhibit 4.15 to Sirius XM Holdings Inc.'s Annual Report on Form 10-K for the year ended December 31, 2013 (File No. 001-34295)).

## Exhibit Description Description of Registrant's Securities (incorporated by reference to Exhibit 4.15 to Sirius XM Holdings Inc.'s Annual Report on Form 10-K for the year ended December 31, 2019 (File No. 001-34295)). 4 12 Credit Agreement, dated as of December 5, 2012, among Sirius XM Radio Inc., JPMorgan Chase Bank, N.A. as administrative agent, and the other agents and lenders party thereto (incorporated by reference to Exhibit 10.1 to Sirius XM Radio Inc.'s Current Report on Form 8-K filed on December 10, 2012 (File No. Amendment No. 1, dated as of April 22, 2014, to the Credit Agreement, dated as of December 5, 2012, among Sirius XM Radio Inc., the Lenders party thereto and JPMorgan Chase Bank, N.A. as administrative agent for the Lenders, as collateral agent for the Secured Parties and as an Issuing Bank (incorporated by reference to Exhibit 10.1 to Sirius XM Holdings Inc.'s Current Report on Form 8-K filed on April 22, 2014 (File No. 001-34295)). 10.2 10.3 Amendment No. 2, dated as of June 16, 2015, to the Credit Agreement, dated as of December 5, 2012, among Sirius XM Radio Inc., JPMorgan Chase Bank. N.A., as administrative agent, and the other agents and lenders parties thereto (incorporated by reference to Exhibit 10.1 to Sirius XM Holdings Inc.'s Current Report on Form 8-K filed on June 19, 2015 (File No. 001-34295)). Amendment No. 3, dated as of June 29, 2018, to the Credit Agreement, dated as of December 5, 2012, among Sirius XM Radio Inc., JPMorgan Chase Bank, A., as administrative agent, and the other agents and lenders parties thereto (incorporated by reference to Exhibit 10.1 to Sirius XM Holdings Inc.'s Current Report on Form 8-K filed on July 3, 2018 (File No. 001-34295)). 10.5 Amendment No. 5, dated as of August 31, 2021, to the Credit Agreement, dated as of December 5, 2012, among Sirius XM Radio Inc., JPMorgan Chase Bank, N.A., as administrative agent, and the other agents and lenders parties thereto (incorporated by reference to Exhibit 10.1 to Sirius XM Holdings Inc.'s Current Report on Form 8-K filed on September 1, 2021 (File No. 001-34295)). Technology Licensing Agreement among XM Satellite Radio Inc., XM Satellite Radio Holdings Inc., WorldSpace Management Corporation and American Mobile Satellite Corporation, dated as of January 1, 1998, amended by Amendment No. 1 to Technology Licensing Agreement (incorporated by reference to Exhibit 10.4 to Amendment No. 1 to XM Satellite Radio Holdings Inc.'s Registration Statement on Form S-1 (File No. 333-83619)). Amended and Restated Sirius Satellite Radio 2003 Long-Term Stock Incentive Plan (incorporated by reference to Exhibit 10.10 to Sirius XM Radio Inc.'s Quarterly Report on Form 10-Q for the quarter ended June 30, 2004 (File No. 001-34295)). XM Satellite Radio Holdings Inc. 2007 Stock Incentive Plan (incorporated by reference to Exhibit 10.5 to XM Satellite Radio Holdings Inc.'s Quarterly Report on Form 10-Q for the quarter ended June 30, 2007 (File No. 000-27441)). \*10.9 Form of Non-Qualified Stock Option Agreement pursuant to the XM Satellite Radio Holdings Inc. 2007 Stock Incentive Plan (incorporated by reference to Exhibit 10.2 to XM Satellite Radio Holdings Inc.'s Current Report on Form 8-K filed June 1, 2007 (File No. 000-27441)). Form of Restricted Stock Agreement pursuant to the XM Satellite Radio Holdings Inc. 2007 Stock Incentive Plan (incorporated by reference to Exhibit 10.3 to XM Satellite Radio Holdings Inc.'s Current Report on Form 8-K filed June 1, 2007 (File No. 000-27441)). Sirius XM Radio 401(k) Savings Plan, January 1, 2009 Restatement (incorporated by reference to Exhibit 10.30 to Sirius XM Radio Inc.'s Annual Report on Form 10-K for the year ended December 31, 2009 (File No. 001-34295)). \*10.11 Sirius XM Radio Inc. 2009 Long-Term Stock Incentive Plan (incorporated by reference to Exhibit 4.9 to Sirius XM Radio Inc.'s Registration Statement on \*10.12 Form S-8 (File No. 333-160386)). Sirius XM Holdings Inc. 2015 Long-Term Stock Incentive Plan (incorporated by reference to Appendix A to Sirius XM Holdings Inc.'s definitive Proxy Statement on Schedule 14A filed on April 6, 2015 (File No. 001-34295)). \*10.14 Form of Director Non-Qualified Stock Option Agreement pursuant to the Sirius XM Radio Inc. 2009 Long-Term Stock Incentive Plan (incorporated by reference to Exhibit 10.34 to Sirius XM Radio Inc.'s Annual Report on Form 10-K for the year ended December 31, 2011 (File No. 001-34295)). \*10.15 Form of Director Non-Qualified Stock Option Agreement pursuant to the Sirius XM Holdings Inc. 2009 Long-Term Stock Incentive Plan (incorporated by reference to Exhibit 10.18 to Sirius XM Holdings Inc.'s Annual Report for the year ended December 31, 2014 (File No. 001-34295)). \*10.16 Form of Non-Qualified Stock Option Agreement pursuant to the Sirius XM Radio Inc. 2009 Long-Term Stock Incentive Plan (incorporated by reference to Exhibit 10.35 to Sirius XM Radio Inc.'s Annual Report on Form 10-K for the year ended December 31, 2011 (File No. 001-34295)).

Exhibit	Description
*10.17	Form of Non-Qualified Stock Option Agreement pursuant to the Sirius XM Holdings Inc. 2009 Long-Term Stock Incentive Plan (incorporated by reference to Exhibit 10.20 to Sirius XM Holdings Inc.'s Annual Report filed for the year ended December 31, 2014 (File No. 001-34295)).
*10.18	Form of Director Non-Qualified Stock Option Agreement pursuant to the Sirius XM Holdings Inc. 2015 Long-Term Stock Incentive Plan (incorporated by reference to Exhibit 10.22 to Sirius XM Holdings Inc.'s Annual Report on Form 10-K for the year ended December 31, 2015 (File No. 001-34295)).
*10.19	Form of Non-Qualified Stock Option Agreement pursuant to the Sirius XM Holdings Inc. 2015 Long-Term Stock Incentive Plan (incorporated by reference to Exhibit 10.23 to Sirius XM Holdings Inc.'s Annual Report on Form 10-K for the year ended December 31, 2015 (File No. 001-34295)).
*10.20	Form of SVP Restricted Stock Unit Agreement pursuant to the Sirius XM Holdings Inc. 2015 Long-Term Stock Incentive Plan (incorporated by reference to Exhibit 10.24 to Sirius XM Holdings Inc.'s Annual Report on Form 10-K for the year ended December 31, 2016 (001-34295)).
*10.21	Form of Performance-Based Restricted Stock Unit Agreement pursuant to the Sirius XM Holdings Inc. 2015 Long-Term Stock Incentive Plan (incorporated by reference to Exhibit 10.25 to Sirius XM Holdings Inc.'s Annual Report on Form 10-K for the year ended December 31, 2016 (001-34295)).
*10.22	Form of SVP Non-Qualified Stock Option Agreement pursuant to the Sirius XM Holdings Inc. 2015 Long-Term Stock Incentive Plan (incorporated by reference to Exhibit 10.26 to Sirius XM Holdings Inc.'s Annual Report on Form 10-K for the year ended December 31, 2016 (001-34295)).
*10.23	Employment Agreement, dated as of May 31, 2018, between Sirius XM Radio Inc. and Dara F Altman (incorporated by reference to Exhibit 10.1 to Sirius XM Holdings Inc.'s Current Report on Form 8-K filed on June 5, 2018 (File No. 001-34295)).
*10.24	Employment Agreement, dated as of June 29, 2015, between Sirius XM Radio Inc. and James A. Cady (incorporated by reference to Exhibit 10.1 to Sirius XM Holdings Inc.'s Current Report on Form 8-K filed on June 30, 2015 (File No. 001-34295)).
*10.25	Amendment to the Employment Agreement between Sirius XM Radio Inc. and James A Cady, dated as of February 23, 2016 (incorporated by reference to Exhibit 10.1 to Sirius XM Holdings Inc.'s Quarterly Report on Form 10-Q for the quarter ended March 31, 2016 (File No. 001-34295)).
*10.26	Employment Agreement, dated as of June 1, 2018, between Sirius XM Radio Inc. and David J. Frear (incorporated by reference to Exhibit 10.2 to Sirius XM Holdings Inc.'s Current Report on Form 8-K filed on June 5, 2018 (File No. 001-34295)).
*10.27	Form of Option Award Agreement between Sirius XM Radio Inc. and James E. Meyer (incorporated by reference to Exhibit 10.1 to Sirius XM Radio Inc.'s Current Report on Form 8-K filed October 16, 2009 (File No. 001-34295)).
*10.28	Employment Agreement, dated December 24, 2018 between Sirius XM Radio Inc. and Scott A. Greenstein (incorporated by reference to Exhibit 10.1 to Sirius XM Holdings Inc.'s Current Report on Form 8-K filed on December 26, 2018 (File No. 001-34295)).
*10.29	Employment Agreement, dated as of November 22, 2016 between Sirius XM Radio Inc. and Patrick L. Donnelly (incorporated by reference to Exhibit 10.37 to Sirius XM Holdings Inc.'s Annual Report on Form 10-K for the year ended December 31, 2016 (File No. 001-34295)).
*10.30	Employment Agreement, dated as of August 21, 2017 between Sirius XM Radio Inc. and Jennifer Witz (incorporated by reference to Exhibit 10.30 to Sirius XM Holdings Inc.'s Annual Report on Form 10-K for the year ended December 31, 2017 (File No. 001-34295)).
*10.31	Employment Agreement, dated August 16, 2018, between Sirius XM Radio Inc. and James E. Meyer (incorporated by reference to Exhibit 10.1 to Sirius XM Holdings Inc.'s Current Report on Form 8-K filed on August 16, 2018 (File No. 001-34295)).
*10.32	Letter agreement, dated August 16, 2018, regarding use of private aircraft between Sirius XM Radio Inc. and James E. Meyer (incorporated by reference to Exhibit 10.2 to Sirius XM Holdings Inc.'s Current Report on Form 8-K filed on August 16, 2018 (File No. 001-34295)).
*10.33	Employment Agreement, dated as of March 5, 2019 between Sirius XM Radio Inc. and Jennifer Witz (incorporated by reference to Exhibit 10.1 to Sirius XM Holdings Inc.'s Current Report on Form 8-K filed on March 6, 2019 (File No. 001-34295)).
*10.34	Employment Agreement, dated as of September 14, 2020 between Sirius XM Radio Inc. and Jennifer Witz (incorporated by reference to Exhibit 10.1 to Sirius XM Holdings Inc.'s Current Report on Form 8-K filed on September 15, 2020 (File No. 001-34295)).

Exhibit	Description
*10.35	Letter Agreement, dated September 14, 2020, regarding private use of aircraft between Sirius XM Radio Inc. and Jennifer C. Witz (incorporated by reference to Exhibit 10.2 to Sirius XM Holdings Inc.'s Current Report on Form 8-K filed September 15, 2020 (File No. 001-34295)).
*10.36	First Amendment, dated February 16, 2021, to the Employment Agreement, dated as of September 14, 2020, between Sirius XM Radio Inc. and Jennifer C. Witz (incorporated by reference to Exhibit 10.1 to Sirius XM Holdings Inc.'s Current Report on Form 8-K filed February 17, 2021 (File No. 001-34295)).
*10.37	Employment Agreement, dated as of September 14, 2020, between Sirius XM Radio Inc. and Sean S. Sullivan (incorporated by reference to Exhibit 10.3 to Sirius XM Holdings Inc.'s Current Report on Form 8-K filed September 15, 2020 (File No. 001-34295)).
*10.38	First Amendment, dated February 16, 2021, to the Employment Agreement, dated as of September 14, 2020, between Sirius XM Radio Inc. and Sean S. Sullivan (incorporated by reference to Exhibit 10.2 to Sirius XM Holdings Inc.'s Current Report on Form 8-K filed February 17, 2021 (File No. 001-34295)).
*10.39	Employment Agreement, dated as of December 27, 2020 between Sirius XM Radio Inc. and Scott A. Greenstein (incorporated by reference to Exhibit 10.1 to Sirius XM Holdings Inc.'s Current Report on Form 8-K filed on December 8, 2020 (File No. 001-34295)).
*10.40	Agreement and Release, dated as of September 21, 2020 between Sirius XM Radio Inc. and David J. Frear (incorporated by reference to Exhibit 10.37 to Sirius XM Holdings Inc.'s Annual Report on Form 10-K for the year ended December 31, 2020 (File No. 001-34295)).
*10.41	Consulting Agreement, dated as of January 1, 2021 between Sirius XM Radio Inc. and James E Meyer (incorporated by reference to Exhibit 10.38 to Sirius XM Holdings Inc.'s Annual Report on Form 10-K for the year ended December 31, 2020 (File No. 001-34295)).
*10.42	Letter Agreement, dated March 5, 2019, between Sirius XM Radio Inc. and Stephen R. Cook (incorporated by reference to Exhibit 10.2 to Sirius XM Holdings Inc.'s Current Report on Form 8-K filed on March 6, 2019 (File No. 001-34295)).
*10.43	Letter Agreement, dated March 5, 2019, between Sirius XM Radio Inc. and Joseph A. Verbrugge (incorporated by reference to Exhibit 10.3 to Sirius XM Holdings Inc.'s Current Report on Form 8-K filed on March 6, 2019 (File No. 001-34295)).
*10.44	Employment Agreement, dated as of May 5, 2021, between Sirius XM Radio Inc. and Dara F. Altman(incorporated by reference to Exhibit 10.1 to Sirius XM Holdings Inc.'s Current Report on Form 8-K filed on May 7, 2021 (File No. 001-34295)).
*10.45	Employment Agreement, dated December 10, 2021, between Sirius XM Radio Inc. and Joseph Inzerillo(incorporated by reference to Exhibit 10.1 to Sirius XM Holdings Inc.'s Current Report on Form 8-K filed on December 13, 2021 (File No. 001-34295)).
*10.46	Assignment and Assumption Agreement, dated as of November 15, 2013, among Sirius XM Holdings Inc. and Sirius XM Radio Inc. (incorporated by reference to Exhibit 10.1 to Sirius XM Holdings Inc.'s Current Report on Form 8-K filed on November 15, 2013 (File No. 001-34295)).
*10.47	Omnibus Amendment, dated November 15, 2013, to the XM Satellite Radio Holdings Inc. Talent Option Plan, the XM Satellite Radio Holdings Inc. 1998 Shares Award Plan, as amended, the Amended and Restated Sirius Satellite Radio 2003 Long-Term Stock Incentive Plan, the XM Satellite Radio Holdings Inc. 2007 Stock Incentive Plan and the Sirius XM Radio Inc. 2009 Long-Term Stock Incentive Plan and their Related Stock Option Agreements, Restricted Stock Agreements and Restricted Stock Unit Agreements (incorporated by reference to Exhibit 10.2 to Sirius XM Holdings Inc.'s Current Report on Form 8-K filed on November 15, 2013 (File No. 001-34295)).
*10.48	Sirius XM Holdings Inc. Deferred Compensation Plan (incorporated by reference to Exhibit 10.2 to Sirius XM Holdings Inc.'s Current Report on Form 8-K filed on June 30, 2015 (File No. 001-34295)).
10.49	Tax Sharing Agreement, dated as of February 1, 2021 between Sirius XM Holdings Inc. and Liberty Media Corporation (ncorporated by reference to Exhibit 10.44 to Sirius XM Holdings Inc.'s Annual Report on Form 10-K for the year ended December 31, 2020 filed on February 2, 2021 (File No. 001-34295)).
10.50	Section 253 Agreement, dated as of November 1, 2021, between Sirius XM Holdings Inc. and Liberty Media Corporation (incorporated by reference to Exhibit 10.2 to Sirius XM Holdings Inc.'s Current Report on Form 8-K filed on November 4, 2021 (File No. 001-34295)).
21.1	List of Subsidiaries (filed herewith).
23.1	Consent of KPMG LLP (filed herewith).

Exhibit	Description
31.1	Certificate of Jennifer C. Witz, Chief Executive Officer and Director, pursuant to Section 302 of the Sarbanes-Oxley Act of 2002 (filed herewith).
31.2	Certificate of Sean S. Sullivan, Executive Vice President and Chief Financial Officer, pursuant to Section 302 of the Sarbanes-Oxley Act of 2002 (filed herewith).
32.1	Certificate of Jennifer C. Witz, Chief Executive Officer and Director, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 (filed herewith).
32.2	Certificate of Sean S. Sullivan, Executive Vice President and Chief Financial Officer, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 (filed herewith).
99.1	Amended and Restated Certificate of Incorporation of Sirius XM Radio Inc., as amended (incorporated by reference to Exhibit 3.3 to Sirius XM Holdings Inc.'s Annual Report on Form 10-K for the year ended December 31, 2013 (File No. 001-34295)).
99.2	Amended and Restated By-Laws of Sirius XM Radio Inc., as amended (incorporated by reference to Exhibit 3.4 to Sirius XM Holdings Inc.'s Annual Report on Form 10-K for the year ended December 31, 2013 (File No. 001-34295)).
101.1	The following financial information from our Annual Report on Form 10-K for the year ended December 31, 2021 formatted in Inline eXtensible Business Reporting Language (Inline XBRL): (i) Consolidated Statements of Comprehensive Income for the years ended December 31, 2021, 2020 and 2019; (ii) Consolidated Balance Sheets as of December 31, 2021 and 2020; (iii) Consolidated Statements of Stockholders' (Deficit) Equity for the years ended December 31, 2021, 2020 and 2019; (iv) Consolidated Statements of Cash Flows for the years ended December 31, 2021, 2020 and 2019; and (v) Combined Notes to Consolidated Financial Statements.
104.1	Cover Page Interactive Data File (Embedded within the Inline XBRL document and included in Exhibit 101.1)

<sup>\*</sup> This document has been identified as a management contract or compensatory plan or arrangement.

The agreements and other documents filed as exhibits to this report are not intended to provide factual information or other disclosure other than with respect to the terms of the agreements or other documents themselves, and you should not rely on them for any other purpose. In particular, any representations and warranties made by us in these agreements or other documents were made solely within the specific context of the relevant agreement or document and may not describe the actual state of affairs for any other purpose as of the date they were made or at any other time.

<sup>\*\*</sup> Pursuant to the Commission's Orders Granting Confidential Treatment under Rule 406 of the Securities Act of 1933 or Rule 24(b)-2 under the Securities Exchange Act of 1934, certain confidential portions of this Exhibit were omitted by means of redacting a portion of the text.

#### **SIGNATURES**

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized on this 1st day of February 2022.

SIRIUS XM HOLDINGS INC.

By: /s/ Sean S. Sullivan

Sean S. Sullivan
Executive Vice President and Chief Financial Officer
(Principal Financial Officer and Authorized Officer)

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

<u>Signature</u>	<u>Title</u>	<u>Date</u>
/s/ Gregory B. Maffei (Gregory B. Maffei)	Chairman of the Board of Directors and Director	February 1, 2022
/s/ JAMES E. MEYER (James E. Meyer)	Vice Chairman of the Board of Directors and Director	February 1, 2022
/s/ JENNIFER C. WITZ (Jennifer C. Witz)	Chief Executive Officer and Director (Principal Executive Officer)	February 1, 2022
/s/ Sean S. Sullivan (Sean S. Sullivan)	Executive Vice President and Chief Financial Officer (Principal Financial Officer)	February 1, 2022
/s/ Thomas D. Barry (Thomas D. Barry)	Senior Vice President and Controller (Principal Accounting Officer)	February 1, 2022
/s/ DAVID A. BLAU (David A. Blau)	Director	February 1, 2022
/s/ EDDY W. HARTENSTEIN (Eddy W. Hartenstein)	Director	February 1, 2022
/s/ ROBIN S. P. HICKENLOOPER (Robin S. P. Hickenlooper)	Director	February 1, 2022
/s/ JAMES P. HOLDEN (James P. Holden)	Director	February 1, 2022
/s/ EVAN D. MALONE (Evan D. Malone)	Director	February 1, 2022
/s/ JONELLE PROCOPE (Jonelle Procope)	Director	February 1, 2022
/s/ MICHAEL RAPINO (Michael Rapino)	Director	February 1, 2022
/s/ Kristina M. Salen  (Kristina M. Salen)	Director	February 1, 2022
/s/ Carl E. Vogel (Carl E. Vogel)	Director	February 1, 2022
/s/ DAVID M. ZASLAV (David M. Zaslav)	Director	February 1, 2022

## SIRIUS XM HOLDINGS INC. AND SUBSIDIARIES INDEX TO CONSOLIDATED FINANCIAL STATEMENTS

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#### Report of Independent Registered Public Accounting Firm

To the Stockholders and Board of Directors Sirius XM Holdings Inc.:

Opinion on the Consolidated Financial Statements

We have audited the accompanying consolidated balance sheets of Sirius XM Holdings Inc. and subsidiaries (the Company) as of December 31, 2021 and 2020, the related consolidated statements of comprehensive income, stockholders' equity (deficit), and cash flows for each of the years in the three-year period ended December 31, 2021, and the related notes and financial statement schedule II (collectively, the consolidated financial statements). In our opinion, the consolidated financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2021 and 2020, and the results of its operations and its cash flows for each of the years in the three-year period ended December 31, 2021, in conformity with U.S. generally accepted accounting principles.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the Company's internal control over financial reporting as of December 31, 2021, based on criteria established in *Internal Control – Integrated Framework (2013)* issued by the Committee of Sponsoring Organizations of the Treadway Commission, and our report dated February 1, 2022 expressed an unqualified opinion on the effectiveness of the Company's internal control over financial reporting.

#### Basis for Opinion

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

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

#### Critical Audit Matter

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

Sufficiency of audit evidence over certain subscriber and advertising revenues

As discussed in Notes 2 and 18 to the consolidated financial statements, and disclosed in the consolidated statements of comprehensive income, the Company generated \$8,696 million of revenues, of which \$6,084 million was Sirius XM subscriber revenue and \$1,542 million was Pandora (Pandora Media, LLC and subsidiaries, the successor to Pandora Media, Inc. and subsidiaries) advertising revenue, for the year ended December 31, 2021. The Company's accounting for these subscriber and advertising revenues involved multiple information technology (IT) systems.

We identified the evaluation of the sufficiency of audit evidence related to Sirius XM subscriber revenue and Pandora advertising revenue as a critical audit matter. Evaluating the sufficiency of audit evidence obtained required auditor judgment due to the number of IT applications used by the Company that involved IT professionals with specialized skills and knowledge.

The following are the primary procedures we performed to address this critical audit matter. We applied auditor judgment to determine the nature and extent of procedures to be performed over subscriber and advertising revenues. We evaluated the design and tested the operating effectiveness of certain internal controls related to the Sirius XM subscriber and Pandora advertising revenue recognition processes. We involved IT professionals with specialized skills and knowledge, who assisted in testing certain IT application controls and general IT controls used by the Company in its revenue recognition processes and testing the interface of relevant revenue data between different IT systems used in the revenue

recognition processes. For Sirius XM subscriber revenue, we assessed the recorded revenue by comparing the total cash received during the year, adjusted for reconciling items, to the revenue recorded in the general ledger. For a sample of Pandora advertising revenues, we traced the recorded amounts to underlying source documents and system reports. We evaluated the sufficiency of audit evidence obtained by assessing the results of procedures performed, including the appropriateness of the nature and extent of such evidence.

/s/ KPMG LLP

We have served as the Company's auditor since 2008.

New York, New York February 1, 2022

#### Report of Independent Registered Public Accounting Firm

To the Stockholders and Board of Directors Sirius XM Holdings Inc.:

Opinion on Internal Control Over Financial Reporting

We have audited Sirius XM Holdings Inc. and subsidiaries' (the Company) internal control over financial reporting as of December 31, 2021, based on criteria established in *Internal Control - Integrated Framework (2013)* issued by the Committee of Sponsoring Organizations of the Treadway Commission. In our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of December 31, 2021, based on criteria established in *Internal Control - Integrated Framework (2013)* issued by the Committee of Sponsoring Organizations of the Treadway Commission.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the consolidated balance sheets of the Company as of December 31, 2021 and 2020, the related consolidated statements of comprehensive income, stockholders' equity (deficit), and cash flows for each of the years in the three-year period ended December 31, 2021, and the related notes and financial statement schedule II (collectively, the consolidated financial statements), and our report dated February 1, 2022 expressed an unqualified opinion on those consolidated financial statements.

Basis for Opinion

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

We conducted our audit in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether effective internal control over financial reporting was maintained in all material respects. Our audit of internal control over financial reporting included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, and testing and evaluating the design and operating effectiveness of internal control based on the assessed risk. Our audit also included performing such other procedures as we considered necessary in the circumstances. We believe that our audit provides a reasonable basis for our opinion.

Definition and Limitations of Internal Control Over Financial Reporting

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

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

/s/ KPMG LLP

New York, New York February 1, 2022

## SIRIUS XM HOLDINGS INC. AND SUBSIDIARIES CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME

For the Years Ended December 31, 2021 2019 2020 (in millions, except per share data) Revenue: Subscriber revenue \$ 6,614 \$ 6,372 \$ 6,120 1,730 1,340 1,336 Advertising revenue Equipment revenue 201 173 173 Other revenue 151 155 165 Total revenue 8,696 8,040 7,794 Operating expenses: Cost of services: 2,672 2,421 2,291 Revenue share and royalties Programming and content 559 481 462 501 Customer service and billing 481 475 Transmission 218 177 170 Cost of equipment 18 19 29 Subscriber acquisition costs 325 362 427 1,056 957 937 Sales and marketing Engineering, design and development 265 263 280 General and administrative 514 511 524 Depreciation and amortization 533 506 468 20 1,004 Impairment, restructuring and acquisition costs 84 6,681 7,182 6,147 Total operating expenses Income from operations 2,015 858 1,647 Other (expense) income: (415) (394) (390)Interest expense Loss on extinguishment of debt (83)(40)(57)Other income (expense) 9 (3) Total other (expense) income (489)(428)(450)Income before income taxes 1,526 430 1,197 Income tax expense (212)(299)(283)Net income 1,314 131 914 Foreign currency translation adjustment, net of tax 7 14 Total comprehensive income 1,314 138 928 Net income per common share: Basic 0.32 0.03 0.20 Diluted 0.32 0.03 0.20 Weighted average common shares outstanding: Basic 4,062 4,330 4,501 Diluted 4,429 4,143 4,616

# SIRIUS XM HOLDINGS INC. AND SUBSIDIARIES CONSOLIDATED BALANCE SHEETS

		As of Dec	ember 3				
(in millions, except per share data)		2021		2020			
ASSETS							
Current assets:							
Cash and cash equivalents	\$	191	\$	71			
Receivables, net		722		672			
Related party current assets		21		20			
Prepaid expenses and other current assets	_	246		204			
Total current assets		1,180		967			
Property and equipment, net		1,450		1,629			
Intangible assets, net		3,186		3,340			
Goodwill		3,151		3,122			
Related party long-term assets		526		531			
Deferred tax assets		200		111			
Operating lease right-of-use assets		358		427			
Other long-term assets		223		206			
Total assets	\$	10,274	\$	10,333			
LIABILITIES AND STOCKHOLDERS' EQUITY (DEFICIT)	-						
Current liabilities:							
Accounts payable and accrued expenses	\$	1,299	\$	1,223			
Accrued interest		173		174			
Current portion of deferred revenue		1,454		1,721			
Current maturities of debt		_		1			
Operating lease current liabilities		49		48			
Related party current liabilities		5		_			
Total current liabilities		2,980		3,167			
Long-term deferred revenue		97		118			
Long-term debt		8,832		8,499			
Deferred tax liabilities		478		266			
Operating lease liabilities		362		419			
Other long-term liabilities		150		149			
Total liabilities		12.899		12,618			
Commitments and contingencies (Note 16)		,		, , , , ,			
Stockholders' equity (deficit):							
Common stock, par value \$0.001 per share; 9,000 shares authorized; 3,968 and 4,176 shares issued; 3,967 and 4,173 shares outstanding at December 31, 2021 and December 31, 2020, respectively		4		4			
Accumulated other comprehensive income, net of tax		15		15			
Additional paid-in capital		_		_			
Treasury stock, at cost; 1 and 3 shares of common stock at December 31, 2021 and December 31, 2020, respectively		(8)		(19)			
Accumulated deficit		(2,636)		(2,285)			
Total stockholders' equity (deficit)		(2,625)		(2,285)			
Total liabilities and stockholders' equity (deficit)	\$	10,274	\$	10,333			
substitution of the state	Ψ	10,2/4	Ψ	10,333			

## SIRIUS XM HOLDINGS INC. AND SUBSIDIARIES CONSOLIDATED STATEMENT OF STOCKHOLDERS' EQUITY (DEFICIT)

	Accumulated  Common Stock Other Additional Treasury Sto  Comprehensive Paid-in		tock Accumulated		Total Stockholders'								
(in millions)	Shares	A	Amount	Income	Capital	Shares	A	mount			Equity (Deficit)		
Balance at January 1, 2019	4,346	\$	4	\$ (6)	\$ 242	_	\$		\$	(2,057)	\$	(1,817)	
Comprehensive income, net of tax	_		_	14	_	_		_		914		928	
Share-based payment expense	_		_	_	263	_		_		_		263	
Exercise of stock options and vesting of restricted stock units	38		_	_	8	_		_		_		8	
Withholding taxes on net share settlement of stock- based compensation	_		_	_	(150)	_		_		_		(150)	
Cash dividends paid on common stock, \$0.04961 per share	_		_	_	(226)	_		_		_		(226)	
Issuance of common stock as part of Pandora Acquisition	392		1	_	2,354	_		_		_		2,355	
Equity component of convertible note	_		_	_	62	_		_		_		62	
Common stock repurchased	_		_	_	_	364		(2,159)		_		(2,159)	
Common stock retired	(364)		(1)	 _	(2,158)	(364)		2,159		_			
Balance at December 31, 2019	4,412	\$	4	\$ 8	\$ 395	_	\$		\$	(1,143)	\$	(736)	
Comprehensive income, net of tax	_		_	7	_	_		_		131		138	
Share-based payment expense	_		_	_	239	_		_		_		239	
Exercise of stock options and vesting of restricted stock units	28		_	_	_	_		_		_		_	
Withholding taxes on net share settlement of stock- based compensation	_		_	_	(115)	_		_		_		(115)	
Cash dividends paid on common stock, \$0.05457 per share	_		_	_	(170)	_		_		(67)		(237)	
Common stock repurchased	_		_	_	_	267		(1,574)		_		(1,574)	
Common stock retired	(264)		_	_	(349)	(264)		1,555		(1,206)		_	
Balance at December 31, 2020	4,176	\$	4	\$ 15	\$ _	3	\$	(19)	\$	(2,285)	\$	(2,285)	
Comprehensive income, net of tax	_		_	_	_	_				1,314		1,314	
Share-based payment expense	_		_	_	215	_		_		_		215	
Exercise of stock options and vesting of restricted stock units	38		_	_	10	_		_		_		10	
Withholding taxes on net share settlement of stock- based compensation	_		_	_	(103)	_		_		_		(103)	
Cash dividends paid on common stock, \$0.0658845 per share	_		_	_	(126)	_		_		(142)		(268)	
Issuance of restricted stock units in connection with business acquisition	_		_	_	4	_		_		_		4	
Common stock repurchased				_	_	245		(1,512)		_		(1,512)	
Common stock retired	(246)		_	_	_	(247)		1,523		(1,523)		_	
Balance at December 31, 2021	3,968	\$	4	\$ 15	\$	1	\$	(8)	\$	(2,636)	\$	(2,625)	

## SIRIUS XM HOLDINGS INC. AND SUBSIDIARIES CONSOLIDATED STATEMENTS OF CASH FLOWS

CONSOLIDATED STATEMENTS OF CASH I	FLOWS	For the	e Years Ended Decen	abor 21
(in millions)		2021	2020	2019
Cash flows from operating activities:				
Net income	\$	1,314	\$ 131	\$ 914
Adjustments to reconcile net income to net cash provided by operating activities:		,-		
Depreciation and amortization		533	506	468
Non cash impairment and restructuring costs		24	1,000	_
Non-cash interest expense, net of amortization of premium		21	20	17
Change in fair value of contingent consideration		(17)	_	_
Provision for doubtful accounts		53	60	53
Amortization of deferred income related to equity method investment		_	(3)	
Loss on extinguishment of debt		83	40	57
Loss on unconsolidated entity investments, net		18	16	21
Dividend received from unconsolidated entity investment		2	2	2
Gain on other investments		(5)	(3)	
Share-based payment expense		202	223	250
Deferred income tax expense		131	238	259
Amortization of right-of-use assets		50	56	56
Changes in operating assets and liabilities:		30	30	30
Receivables		(108)	(36)	(137)
Related party, net		7	(50)	(10)
Prepaid expenses and other current assets		(47)	12	21
Other long-term assets		(8)	(61)	
Accounts payable and accrued expenses		104	42	109
Accrued interest		(1)	13	32
Deferred revenue		(287)	(223)	(58)
Operating lease liabilities		(55)	(53)	
Other long-term liabilities		(16)	38	9
		1,998	2,018	
Net cash provided by operating activities		1,998	2,018	2,017
Cash flows from investing activities:		(200)	(250)	(2.62)
Additions to property and equipment		(388)	(350)	(363)
Proceeds from insurance recoveries		225		
Purchases of other investments		(4)	(8)	
Acquisition of business, net of cash acquired		(14)	(300)	
Sale of short-term investments			_	73
Investments in related parties and other equity investees		(21)	(94)	(19)
Repayment from related party		2	11	
Net cash used in investing activities		(200)	(741)	(3)
Cash flows from financing activities:				
Proceeds from exercise of stock options		10	_	8
Taxes paid from net share settlements for stock-based compensation		(103)	(114)	(150)
Revolving credit facility, net		(653)	649	(439)
Proceeds from long-term borrowings, net of costs		4,442	1,481	2,715
Proceeds from sale of capped call security		_	_	3
Principal payments of long-term borrowings		(3,503)	(1,507)	(1,666)
Payment of premiums on redemption of debt		(62)	(31)	(45)
Payment of contingent consideration for business acquisition		(22)	_	_
Common stock repurchased and retired		(1,523)	(1,555)	(2,159)
Dividends paid		(268)	(237)	(226)
Net cash used in financing activities		(1,682)	(1,314)	(1,959)
Net increase (decrease) in cash, cash equivalents and restricted cash		116	(37)	55
Cash, cash equivalents and restricted cash at beginning of period <sup>(1)</sup>		83	120	65
Cash, cash equivalents and restricted cash at end of period <sup>(1)</sup>	\$	199	\$ 83	\$ 120

### SIRIUS XM HOLDINGS INC. AND SUBSIDIARIES CONSOLIDATED STATEMENTS OF CASH FLOWS - Continued

	For the Years Ended December 31,				
(in millions)	 2021		2020		2019
Supplemental Disclosure of Cash and Non-Cash Flow Information					
Cash paid during the period for:					
Interest, net of amounts capitalized	\$ 393	\$	358	\$	337
Income taxes paid	\$ 82	\$	38	\$	10
Non-cash investing and financing activities:					
Treasury stock not yet settled	\$ 11	\$	(19)	\$	_
Fair value of shares issued related to acquisition of a business	\$ _	\$	_	\$	2,355
Accumulated other comprehensive income, net of tax	\$ _	\$	7	\$	14

(1) The following table reconciles cash, cash equivalents and restricted cash per the statement of cash flows to the balance sheet. The restricted cash balances are primarily due to letters of credit which have been issued to the landlords of leased office space. The terms of the letters of credit primarily extend beyond one year.

(in millions)	December 31, 2021 December 31, 2020			December 31, 2019			December 31, 2018
Cash and cash equivalents	\$ 191	\$	71	\$	106	\$	54
Restricted cash included in Other long-term assets	8		12		14		11
Total cash, cash equivalents and restricted cash at end of period	\$ 199	\$	83	\$	120	\$	65

See accompanying notes to the consolidated financial statements.

#### (1) Business & Basis of Presentation

This Annual Report on Form 10-K presents information for Sirius XM Holdings Inc. and its subsidiaries (collectively "Holdings"). The terms "Holdings," "we," "us," "our," and "our company" as used herein, and unless otherwise stated or indicated by context, refer to Sirius XM Holdings Inc. and its subsidiaries. "Sirius XM" refers to our wholly owned subsidiary Sirius XM Radio Inc. and its subsidiaries. "Pandora" refers to Sirius XM's wholly owned subsidiary Pandora Media, LLC and its subsidiaries. Holdings has no operations independent of Sirius XM and Pandora.

#### Business

We operate two complementary audio entertainment businesses - our Sirius XM business and our Pandora business.

Sirius XM

Our Sirius XM business features music, sports, entertainment, comedy, talk, news, traffic and weather channels and other content, as well as podcasts and infotainment services, in the United States on a subscription fee basis. Sirius XM bundles include live, curated and certain exclusive and on demand programming. The Sirius XM service is distributed through our two proprietary satellite radio systems and streamed via applications for mobile devices, home devices and other consumer electronic equipment. Satellite radios are primarily distributed through automakers, retailers and our website. Our Sirius XM service is also available through our user interface, which we call "360L," that combines our satellite and streaming services into a single, cohesive in-vehicle entertainment experience.

The primary source of revenue from our Sirius XM business is subscription fees, with most of our customers subscribing to monthly, quarterly, semi-annual or annual plans. We also derive revenue from advertising on select non-music channels, which is sold under the SXM Media brand, direct sales of our satellite radios and accessories, and other ancillary services. As of December 31, 2021, our Sirius XM business had approximately 34.0 million subscribers.

In addition to our audio entertainment businesses, we provide connected vehicle services to several automakers. These services are designed to enhance the safety, security and driving experience of consumers. We also offer a suite of data services that includes graphical weather, fuel prices, sports schedules and scores and movie listings, a traffic information service that includes information as to road closings, traffic flow and incident data to consumers with compatible in-vehicle navigation systems, and real-time weather services in vehicles, boats and planes.

Sirius XM also holds a 70% equity interest and 33% voting interest in Sirius XM Canada Holdings Inc. ("Sirius XM Canada"). Sirius XM Canada's subscribers are not included in our subscriber count or subscriber-based operating metrics.

Pandora

Our Pandora business operates a music, comedy and podcast streaming discovery platform, offering a personalized experience for each listener wherever and whenever they want to listen, whether through mobile devices, car speakers or connected devices. Pandora enables listeners to create personalized stations and playlists, discover new content, hear artist- and expert-curated playlists, podcasts and select Sirius XM content as well as search and play songs and albums on-demand. Pandora is available as (1) an ad-supported radio service, (2) a radio subscription service (Pandora Plus) and (3) an on-demand subscription service (Pandora Premium). As of December 31, 2021, Pandora had approximately 6.4 million subscribers.

The majority of revenue from our Pandora business is generated from advertising on our Pandora ad-supported radio service which is sold under the SXM Media brand. We also derive subscription revenue from our Pandora Plus and Pandora Premium subscribers.

Our Pandora business also sells advertising on audio platforms and in podcasts unaffiliated with us. Pandora has an arrangement with SoundCloud Holdings, LLC ("SoundCloud") to be its exclusive US ad sales representative. Through this arrangement, Pandora is able to offer advertisers the ability to execute campaigns in the US across the Pandora and SoundCloud listening platforms. We also have arrangements to serve as the ad sales representative for certain podcasts. In addition, through

AdsWizz Inc., Pandora provides a comprehensive digital audio and programmatic advertising technology platform, which connects audio publishers and advertisers with a variety of ad insertion, campaign trafficking, yield optimization, programmatic buying, marketplace and podcast monetization solutions.

On February 10, 2020, Sirius XM invested \$75 in SoundCloud. SoundCloud is a next-generation music entertainment company, powered by an ecosystem of artists, listeners, and curators on the pulse of what's new, now and next in music culture. SoundCloud's platform enables its users to upload, promote, share and create audio entertainment. The minority investment complements the existing ad sales relationship between SoundCloud and Pandora. Refer to Note 12 for more information on this investment.

On June 16, 2020, Sirius XM acquired Simplecast for \$\Delta 8\$ in cash. Simplecast is a podcast management and analytics platform. Simplecast complements AdsWizz's advertising technology platform, allowing the company to offer podcasters a solution for management, hosting, analytics and advertising sales. Refer to Note 3 for more information on this acquisition.

On October 16, 2020, Sirius XM acquired certain assets and liabilities of Stitcher from The E.W. Scripps Company and certain of its subsidiaries ("Scripps") for total consideration of \$302, which included \$266 in cash and \$36 related to the acquisition date fair value of contingent consideration. During the year ended December 31, 2021, Stitcher did not achieve certain financial metrics, as a result of which we do not expect to pay to Scripps the 2021 portion of the contingent consideration associated with the transaction. During the year ended December 31, 2021, we recognized a \$17 benefit related to the change in fair value of the 2021 portion of the contingent consideration. The acquisition of Stitcher, in conjunction with Simplecast, created a full-service platform for podcast creators, publishers and advertisers. Refer to Note 3 for more information on this acquisition.

#### Liberty Media

As of December 31, 2021, Liberty Media Corporation ("Liberty Media") beneficially owned, directly and indirectly, approximately81% of the outstanding shares of our common stock. As a result, we are a "controlled company" for the purposes of the NASDAQ corporate governance requirements. Refer to Note 12 for more information regarding related parties.

#### **Basis of Presentation**

The accompanying consolidated financial statements of Holdings have been prepared in accordance with U.S. generally accepted accounting principles ("GAAP"). All significant intercompany transactions have been eliminated in consolidation. Certain numbers in our prior period consolidated financial statements and footnotes have been reclassified or consolidated to conform to our current period presentation.

Public companies are required to disclose certain information about their reportable operating segments. Operating segments are defined as significant components of an enterprise for which separate financial information is available and is evaluated on a regular basis by the chief operating decision maker in deciding how to allocate resources to an individual segment and in assessing performance of the segment. We have determined that we have two reportable segments as our chief operating decision maker, our Chief Executive Officer, assesses performance and allocates resources based on the financial results of these segments. Refer to Note 18 for information related to our segments.

We have evaluated events subsequent to the balance sheet date and prior to the filing of this Annual Report on Form 10-K for the year ended December 31, 2021 and have determined that no events have occurred that would require adjustment to our consolidated financial statements. For a discussion of subsequent events that do not require adjustment to our consolidated financial statements refer to Note 19.

#### Use of Estimates

The preparation of financial statements in conformity with GAAP requires management to make estimates and assumptions that affect the amounts reported in the financial statements and footnotes. Estimates, by their nature, are based on judgment and available information. Actual results could differ materially from those estimates. Significant estimates inherent in the preparation of the accompanying consolidated financial statements include asset impairment, depreciable lives of our satellites, share-based payment expense and income taxes.

#### (2) Summary of Significant Accounting Policies

In addition to the significant accounting policies discussed in this Note 2, the following table includes our significant accounting policies that are described in other notes to our consolidated financial statements, including the number and page of the note:

Significant Accounting Policy	Note #	Page #
Acquisition	3	F-15
Fair Value Measurements	4	F-18
Goodwill	8	F-20
Intangible Assets	9	F-21
Property and Equipment	10	F-23
Equity Method Investments	12	F-27
Share-Based Compensation	15	F-32
Legal Reserves	16	F-36
Income Taxes	17	F-39

#### Cash and Cash Equivalents

Our cash and cash equivalents consist of cash on hand, money market funds, certificates of deposit, in-transit credit card receipts and highly liquid investments purchased with an original maturity of three months or less.

#### Revenue Recognition

Revenue is measured according to Accounting Standards Codification ("ASC") 606, Revenue - Revenue from Contracts with Customers, and is recognized based on consideration specified in a contract with a customer, and excludes any sales incentives and amounts collected on behalf of third parties. We recognize revenue when we satisfy a performance obligation by transferring control over a service or product to a customer. We report revenues net of any tax assessed by a governmental authority that is both imposed on, and concurrent with, a specific revenue-producing transaction between a seller and a customer in our consolidated statements of comprehensive income. Collected taxes are recorded within Other current liabilities until remitted to the relevant taxing authority. For equipment sales, we are responsible for arranging for shipping and handling. Shipping and handling costs billed to customers are recorded as revenue and are reported as a component of Cost of equipment.

The following is a description of the principal activities from which we generate our revenue, including from self-pay and paid promotional subscribers, advertising, and sales of equipment.

Subscriber revenue consists primarily of subscription fees and other ancillary subscription based revenues. Revenue is recognized on a straight line basis when the performance obligations to provide each service for the period are satisfied, which is over time as our subscription services are continuously transmitted and can be consumed by customers at any time. Consumers purchasing or leasing a vehicle with a factory-installed satellite radio may receive between a three and twelve month subscription to our service. In certain cases, the subscription fees for these consumers are prepaid by the applicable automaker. Prepaid subscription fees received from automakers or directly from consumers are recorded as deferred revenue and amortized to revenue ratably over the service period which commences upon sale. Activation fees are recognized over one month as the activation fees are non-refundable and do not provide for a material right to the customer. There is no revenue recognized for unpaid trial subscriptions. In some cases we pay a loyalty fee to the automakers when we receive a certain amount of payments from self-pay customers acquired from that automaker. These fees are considered incremental costs to obtain a contract and are, therefore, recognized as an asset and amortized to Subscriber acquisition costs over an average subscriber life. Revenue share and loyalty fees paid to an automaker offering a paid trial are accounted for as a reduction of revenue as the payment does not provide a distinct good or service.

Music royalty fee primarily consists of U.S. music royalty fees ("MRF") collected from subscribers. The related costs we incur for the right to broadcast music and other programming are recorded as Revenue share and royalties expense. Fees

received from subscribers for the MRF are recorded as deferred revenue and amortized to Subscriber revenue ratably over the service period.

We recognize revenue from the sale of advertising as performance obligations are satisfied, which generally occurs as ads are delivered. For our satellite radio service, ads are delivered when they are aired. For our streaming services, ads are delivered primarily based on impressions. Agency fees are calculated based on a stated percentage applied to gross billing revenue for our advertising inventory and are reported as a reduction of advertising revenue. Additionally, we pay certain third parties a percentage of advertising revenue. Advertising revenue is recorded gross of such revenue share payments as we control the advertising service, including the ability to establish pricing, and we are primarily responsible for providing the service. Advertising revenue share payments are recorded to Revenue share and royalties during the period in which the advertising is transmitted.

Equipment revenue and royalties from the sale of satellite radios, components and accessories are recognized upon shipment, net of discounts and rebates. Shipping and handling costs billed to customers are recorded as revenue. Shipping and handling costs associated with shipping goods to customers are reported as a component of Cost of equipment. Other revenue primarily includes revenue recognized from royalties received from Sirius XM Canada.

Customers pay for the services in advance of the performance obligation and therefore these prepayments are recorded as deferred revenue. The deferred revenue is recognized as revenue in our consolidated statement of comprehensive income as the services are provided. Changes in the deferred revenue balance during the year ended December 31, 2021 were not materially impacted by other factors.

As the majority of our contracts are one year or less, we have utilized the optional exemption under ASC 606-10-50-14 and do not disclose information about the remaining performance obligations for contracts which have original expected durations of one year or less. As of December 31, 2021, less than seven percent of our total deferred revenue balance related to contracts that extend beyond one year. These contracts primarily include prepaid data trials which are typically provided for three to five years as well as for self-pay customers who prepay for their audio subscriptions for up tothree years in advance. These amounts are recognized on a straight-line basis as our services are provided.

#### Revenue Share

We share a portion of our subscription revenues earned from self-pay subscribers with certain automakers. The terms of the revenue share agreements vary with each automaker, but are typically based upon the earned audio revenue as reported or gross billed audio revenue. Revenue share on self-pay revenue is recognized as an expense and recorded in Revenue share and royalties in our consolidated statements of comprehensive income. We also pay revenue share to certain talent on non-music stations on our satellite radio service and to podcast talent based on advertising revenue for the related channel or podcast. Revenue share on non-music channels and podcasts is recognized in Revenue share and royalties in our consolidated statements of comprehensive income when it is earned. In some cases, we pay minimum guarantees for revenue share to podcast talent which is recorded in Prepaid and other current assets in our consolidated balance sheets. The minimum guarantee is recognized in Revenue share and royalties primarily on a straight line basis over the contractual term. The prepaid balance is regularly reviewed for recoverability and any amount not deemed to be recoverable is recognized as an expense in the period.

#### Royalties

In connection with our businesses, we must enter into royalty arrangements with two sets of rights holders: holders of musical compositions copyrights (that is, the music and lyrics) and holders of sound recordings copyrights (that is, the actual recording of a work). Our Sirius XM and Pandora businesses use both statutory and direct music licenses as part of their businesses. We license varying rights - such as performance and mechanical rights - for use in our Sirius XM and Pandora businesses based on the various radio and interactive services they offer. The music rights licensing arrangements for our Sirius XM and Pandora businesses are complex.

Musical Composition Copyrights

We pay performance royalties for our Sirius XM and Pandora businesses to holders and rights administrators of musical compositions copyrights, including performing rights organizations and other copyright owners. These performance royalties

are based on agreements with performing rights organizations which represent the holders of these performance rights. Our Sirius XM and Pandora businesses have arrangements with these performance rights organizations. Arrangements with Sirius XM generally include fixed payments during the term of the agreement and arrangements with Pandora for its ad-supported radio service have variable payments based on usage and ownership of a royalty pool.

Pandora must also license reproduction rights, which are also referred to as mechanical rights, to offer the interactive features of the Pandora services. For our Pandora subscription services, copyright holders receive payments for these rights at the rates determined in accordance with the statutory license set forth in Section 115 of the United States Copyright Act. These mechanical royalties are calculated as the greater of a percentage of our revenue or a percentage of our payments to record labels.

#### Sound Recording Copyrights

For our non-interactive satellite radio or streaming services we may license sound recordings under direct licenses with the owners of sound recordings or based on the royalty rate established by the CRB. For our Sirius XM business, the royalty rate for sound recordings has been set by the CRB. The revenue subject to royalty includes subscription revenue from our U.S. satellite digital audio radio subscribers, and advertising revenue from channels other than those channels that make only incidental performances of sound recordings. The rates and terms permit us to reduce the payment due each month for those sound recording directly licensed from copyright owners and exclude from our revenue certain other items, such as royalties paid to us for intellectual property, sales and use taxes, bad debt expense and generally revenue attributable to areas of our business that do not involve the use of copyrighted sound recordings.

For our Pandora business, we have entered into direct license agreements with major and independent music labels and distributors for a significant majority of the sound recordings that stream on the Pandora ad-supported service, Pandora Plus and Pandora Premium. For sound recordings that we stream and for which we have not entered into a direct license agreement with the sound recording rights holders, the sound recordings are streamed pursuant to the statutory royalty rates set by the CRB. Pandora pays royalties to owners of sound recordings on either a per-performance fee based on the number of sound recordings transmitted or a percentage of revenue associated with the applicable service. Certain of these agreements also require Pandora to pay a per subscriber minimum amount.

#### **Programming Costs**

Programming costs which are for a specified number of events are amortized on an event-by-event basis; programming costs which are for a specified season or include programming through a dedicated channel are amortized over the season or period on a straight-line basis. We allocate a portion of certain programming costs which are related to sponsorship and marketing activities to Sales and marketing expense on a straight-line basis over the term of the agreement.

#### Advertising Costs

Media is expensed when aired and advertising production costs are expensed as incurred. Advertising production costs include expenses related to marketing and retention activities, including expenses related to direct mail, outbound telemarketing and email communications. We also incur advertising production costs related to cooperative marketing and promotional events and sponsorships. During the years ended December 31, 2021, 2020 and 2019, we recorded advertising costs of \$515, \$443 and \$392, respectively. These costs are reflected in Sales and marketing expense in our consolidated statements of comprehensive income.

#### Subscriber Acquisition Costs

Subscriber acquisition costs consist of costs incurred to acquire new subscribers which include hardware subsidies paid to radio manufacturers, distributors and automakers, including subsidies paid to automakers who include a satellite radio and a prepaid subscription to our service in the sale or lease price of a new vehicle; subsidies paid for chipsets and certain other components used in manufacturing radios; device royalties for certain radios and chipsets; commissions paid to retailers and automakers as incentives to purchase, install and activate radios; product warranty obligations; freight; and provisions for inventory allowance attributable to inventory consumed in our automotive and retail distribution channels. Subscriber

Subsidies paid to radio manufacturers and automakers are expensed upon installation, shipment, receipt of product or activation and are included in Subscriber acquisition costs because we are responsible for providing the service to the customers. Commissions paid to retailers and automakers are expensed upon either the sale or activation of radios. Chipsets that are shipped to radio manufacturers and held on consignment are recorded as inventory and expensed as Subscriber acquisition costs when placed into production by radio manufacturers. Costs for chipsets are expensed as Subscriber acquisition costs when the automaker confirms receipt.

acquisition costs do not include advertising costs, loyalty payments to distributors and dealers of radios and revenue share payments to automakers and retailers of radios.

#### Research & Development Costs

Research and development costs are expensed as incurred and primarily include the cost of new product development, chipset design, software development and engineering. During the years ended December 31, 2021, 2020 and 2019, we recorded research and development costs of \$229, \$220 and \$231, respectively. These costs are reported as a component of Engineering, design and development expense in our consolidated statements of comprehensive income.

#### Accumulated Other Comprehensive Income (Loss), net of tax

Accumulated other comprehensive income of \$15 was primarily comprised of the cumulative foreign currency translation adjustments related to Sirius XM Canada (refer to Note 12 for additional information). During the year ended December 31, 2021, we recorded a net foreign currency translation adjustment of less than \$1. During the years ended December 31, 2020 and 2019, we recorded a foreign currency translation adjustment gain of \$7 and \$14, respectively, net of tax.

#### (3) Acquisitions

Other acquisitions

On April 23, 2021, we completed a small acquisition for total consideration of \$27 which included \$20 in cash, a \$3 deferred cash payment and \$4 in restricted stock units. We recognized goodwill of \$23 and other assets of \$5.

Stitcher

On October 16, 2020, Sirius XM acquired certain assets and liabilities of Stitcher from Scripps for \$66 in cash, which amount included net working capital adjustments of \$5 during the year ended December 31, 2021. The total purchase consideration of \$302 included \$36 related to the acquisition date fair value of the contingent consideration. During the year ended December 31, 2021, Stitcher did not achieve certain financial metrics, as a result of which we do not expect to pay to Scripps the 2021 portion of the contingent consideration associated with the transaction. During the year ended December 31, 2021, we recognized a \$17 benefit related to the change in fair value of the 2021 portion of the contingent consideration in Impairment, restructuring and acquisition costs on our consolidated statements of comprehensive income. The fair value of the contingent consideration was determined using a probability-weighted cash flow model and will be remeasured to fair value at each subsequent reporting period. Stitcher is included in our Pandora reporting unit.

The table below summarizes the fair value of the assets acquired and liabilities assumed as of the acquisition date:

Acquired Assets:	
Receivables, net	\$ 21
Prepaid expenses and other current assets	16
Property and equipment	8
Intangible assets	38
Goodwill	224
Operating lease right-of-use assets	11
Total assets	\$ 318
Assumed Liabilities:	
Accounts payable and accrued expenses	\$ 4
Deferred revenue	1
Operating lease current liabilities	2
Operating lease liabilities	 9
Total liabilities	\$ 16
Total consideration	\$ 302

The Stitcher acquisition was accounted for using the acquisition method of accounting and was financed through borrowings under Sirius XM's Credit Facility.

#### Simplecast

On June 16, 2020, Sirius XM acquired Simplecast for \$\Displays 8\$ in cash. Simplecast is a podcast management and analytics platform. Simplecast complements AdsWizz's advertising technology platform, allowing the company to offer podcasters of all sizes a powerful, comprehensive solution for publishing, analytics, distribution and advertising sales, and is included in the Pandora reporting unit. The Simplecast acquisition was accounted for using the acquisition method of accounting. We recognized goodwill of \$17, amortizable intangible assets of \$12, other assets of less than \$1\$ and deferred tax liabilities of \$1\$.

#### Pandora

On February 1, 2019, through a series of transactions, Pandora Media, Inc., became an indirect wholly owned subsidiary of Sirius XM and continues to operate as Pandora Media, LLC (the "Pandora Acquisition"). In connection with the Pandora Acquisition, we purchased all of the outstanding shares of the capital stock of Pandora for \$2,355 by converting each outstanding share of Pandora common stock into 1.44 shares of our common stock and we also canceled our preferred stock investment in Pandora for \$524 for total consideration of \$2,879. Net cash acquired was \$313. As part of the Pandora Acquisition, Holdings unconditionally guaranteed all of the payment obligations of Pandora under its outstanding 1.75% convertible senior notes due 2020 and 1.75% convertible senior notes due 2023.

The table below shows the value of the consideration paid in connection with the Pandora Acquisition:

		Total
Pandora common stock outstanding		272
Exchange ratio		1.44
Common stock issued		392
Price per share of Holdings common stock	\$	5.83
Value of common stock issued to Pandora stockholders	\$	2,285
Value of replacement equity awards attributable to pre-combination service	\$	70
Consideration of common stock and replacement equity awards for pre-combination service	\$	2,355
Sirius XM's Pandora preferred stock investment (related party fair value instrument) canceled	\$	524
Total consideration for Pandora Acquisition	\$	2,879
Value attributed to par at \$0.001 par value	\$	1
Balance to capital in excess of par value	\$	2,354
The table below summarizes the fair value of the assets acquired and liabilities assumed as of the acquisition date:		
Acquired Assets:		
Cash and cash equivalents	\$	313
Receivables, net		353
Prepaid expenses and other current assets		109
Property and equipment		65
Intangible assets		1,107
Goodwill		1,553
Deferred tax assets		102
Operating lease right-of-use assets		104
Long term assets	1	7
Total assets	\$	3,713
Assumed Liabilities:		
Accounts payable and accrued expenses	\$	324
Deferred revenue		37
Operating lease current liabilities		28
Current maturities of debt		151
Long-term debt (a)		218
Operating lease liabilities		69
Other long-term liabilities		7
Total liabilities	\$	834
Total consideration	\$	2,879

(a) In order to present the assets acquired and liabilities assumed, the conversion feature associated with Pandora's convertible notes for \$62 has been included within Long-term debt in the table above and included within Additional paid-in-capital within our statement of stockholders' equity (deficit). Refer to Note 13 for additional information.

The Pandora Acquisition was accounted for using the acquisition method of accounting. The excess purchase price over identifiable net tangible and intangible assets of \$1,553 was recorded to Goodwill in our consolidated balance sheets as of December 31, 2019. Refer to Note 8 for a further discussion of Pandora goodwill which was impaired in the year ended December 31, 2020. A total of \$776 has been allocated to identifiable intangible assets subject to amortization and relates to the assessed fair value of the acquired customer relationships and software and technology and is being amortized over the estimated weighted average useful lives of 8 and 5 years, respectively. A total of \$331 has been allocated to identifiable

indefinite lived intangible assets and relates to the assessed fair value of the acquired trademarks. The fair value assessed for the majority of the remaining assets acquired and liabilities assumed equaled their carrying value. Goodwill represents synergies and economies of scale expected from the combination of services. Goodwill has been allocated to the Pandora segment. Additionally, in connection with the Pandora Acquisition, we acquired gross net operating loss ("NOL") carryforwards of approximately \$1,287 for federal income tax purposes that are available to offset future taxable income. The acquired NOL's are limited by Section 382 of the Internal Revenue Code. Those limitations are not expected to impact our ability to fully utilize those NOL's within the carryforward period.

We recognized acquisition related costs of \$84 related to the Pandora Acquisition during the year ended December 31, 2019.

#### Pro Forma Financial Information

Pandora was consolidated into our financial statements starting on the acquisition date, February 1, 2019. The aggregate revenue and net loss of Pandora consolidated into our financial statements was \$1,607 and \$303, respectively, for the year ended December 31, 2019. The following pro forma financial information presents our results as if the Pandora Acquisition had occurred on January 1, 2019:

	 For the Years Ended December 31,					
	 2021		2020		2019	
Total revenue	\$ 8,696	\$	8,046	\$	7,921	
Net income	\$ 1,314	\$	131	\$	938	

These pro forma results are based on estimates and assumptions, which we believe are reasonable. They are not the results that would have been realized had the acquisition actually occurred on January 1, 2019 and are not indicative of our consolidated results of operations in future periods. The pro forma results primarily include adjustments related to amortization of acquired intangible assets, depreciation of property and equipment, acquisition costs, fair value gain or loss on the Pandora investment and associated tax impacts.

#### (4) Fair Value Measurements

The fair value of a financial instrument is the amount at which the instrument could be exchanged in an orderly transaction between market participants. As of December 31, 2021 and 2020, the carrying amounts of cash and cash equivalents, receivables, and accounts payable approximated fair value due to the short-term nature of these instruments. ASC 820, *Fair Value Measurements and Disclosures*, establishes a fair value hierarchy for input into valuation techniques as follows:

- i. Level 1 input: unadjusted quoted prices in active markets for identical instrument;
- ii. Level 2 input: observable market data for the same or similar instrument but not Level 1, including quoted prices for identical or similar assets or liabilities in markets that are not active or other inputs that are observable or can be corroborated by observable market data for substantially the full term of the assets or liabilities; and
- iii. Level 3 input: unobservable inputs developed using management's assumptions about the inputs used for pricing the asset or liability.

Investments are periodically reviewed for impairment and an impairment is recorded whenever declines in fair value below carrying value are determined to be other than temporary. In making this determination, we consider, among other factors, the severity and duration of the decline as well as the likelihood of a recovery within a reasonable timeframe.

Our assets and liabilities measured at fair value were as follows:

	December 31, 2021				December 31, 2020					
	Level 1	Level 2	Level 3	Total Fair Value	Level 1	Level 2	Level 3	Total Fair Value	-	
Liabilities:	,								Ī	
Debt (a)	_	\$ 9,052	_	\$ 9.052	_	\$ 9.011	_	\$ 9.011		

(a) The fair value for non-publicly traded instruments is based upon estimates from a market maker and brokerage firm. Refer to Note 13 for information related to the carrying value of our debt as of December 31, 2021 and 2020.

#### (5) Restructuring Costs

During the year ended December 31, 2021, we evaluated our office space needs and, as a result of such analysis, surrendered certain office leases primarily in New York, New York and Oakland, California. We assessed the recoverability of the carrying value of the operating lease right of use assets related to these locations. Based on that assessment, the carrying values of the assets were not recoverable, and we recorded an impairment of \$18 to reduce the carrying value of the assets to their fair values. Additionally, we accrued expenses of \$6 for which we will not recognize any future economic benefits and wrote off leasehold improvements of \$1. The fair values of the assets were determined using a discounted cash flow model based on management's assumptions regarding the ability to sublease the locations and the remaining term of the leases. The total charge of \$25 was recorded to Impairment, restructuring and acquisition costs in our consolidated statement of comprehensive income for the years ended December 31, 2021.

In May 2020, we terminated the Automatic service, which was part of our connected services business. During the year ended December 31, 2020, we recorded \$24 of restructuring expenses primarily related to the write down of property and equipment, definite lived intangible assets and certain other assets in Impairment, restructuring and acquisition costs in our consolidated statements of comprehensive income. The termination of the Automatic service does not meet the requirements to be reported as a discontinued operation in our consolidated statements of comprehensive income because the termination of the service does not represent a strategic shift that will have a major effect on our operations and financial results.

We did not record any restructuring expenses during the year ended December 31, 2019.

#### (6) Earnings per Share

Basic net income per common share is calculated by dividing the income available to common stockholders by the weighted average common shares outstanding during each reporting period. Diluted net income per common share adjusts the weighted average number of common shares outstanding for the potential dilution that could occur if common stock equivalents (stock options, restricted stock units and convertible debt) were exercised or converted into common stock, calculated using the treasury stock method. We had no participating securities during the years ended December 31, 2021, 2020 and 2019.

Common stock equivalents of \$93, \$62 and \$66 for the years ended December 31, 2021, 2020 and 2019, respectively, were excluded from the calculation of diluted net income per common share as the effect would have been anti-dilutive.

	For the Years Ended December 31,					
	2021			2020		2019
Numerator:						
Net Income available to common stockholders for basic net income per common share	\$	1,314	\$	131	\$	914
Effect of interest on assumed conversions of convertible notes, net of tax		8		8		7
Net Income available to common stockholders for dilutive net income per common share	\$	1,322	\$	139	\$	921
Denominator:						
Weighted average common shares outstanding for basic net income per common share		4,062		4,330		4,501
Weighted average impact of assumed convertible notes		30		30		28
Weighted average impact of dilutive equity instruments		51		69		87
Weighted average shares for diluted net income per common share		4,143		4,429		4,616
Net income per common share:						
Basic	\$	0.32	\$	0.03	\$	0.20
Diluted	\$	0.32	\$	0.03	\$	0.20

#### (7) Receivables, net

Receivables, net, includes customer accounts receivable, receivables from distributors and other receivables. We do not have any customer receivables that individually represent more than ten percent of our receivables.

Customer accounts receivable, net, includes receivables from our subscribers and advertising customers, including advertising agencies and other customers, and is stated at amounts due, net of an allowance for doubtful accounts. Our allowance for doubtful accounts is based upon our assessment of various factors. We consider historical experience, the age of the receivable balances, current economic conditions, industry experience and other factors that may affect the counterparty's ability to pay. Bad debt expense is included in Customer service and billing expense in our consolidated statements of comprehensive income.

Receivables from distributors primarily include billed and unbilled amounts due from automakers for services included in the sale or lease price of vehicles, as well as billed amounts due from wholesale distributors of our satellite radios. Other receivables primarily include amounts due from manufacturers of our radios, modules and chipsets where we are entitled to subsidies and royalties based on the number of units produced. We have not established an allowance for doubtful accounts for our receivables from distributors or other receivables as we have historically not experienced any significant collection issues with automakers or other third parties and do not expect issues in the foreseeable future.

Receivables, net, consists of the following:

	December 31, 2021			December 31, 2020
Gross customer accounts receivable	\$	636	\$	574
Allowance for doubtful accounts		(10)		(15)
Customer accounts receivable, net	\$	626	\$	559
Receivables from distributors		62		73
Other receivables		34		40
Total receivables, net	\$	722	\$	672

#### (8) Goodwill

Goodwill represents the excess of the purchase price over the estimated fair value of the net tangible and identifiable intangible assets acquired in business combinations. Our annual impairment assessment of our two reporting units is performed as of the fourth quarter of each year, and an assessment is performed at other times if an event occurs or circumstances change that would more likely than not reduce the fair value of a reporting unit below its carrying amount. ASC 350, *Intangibles - Goodwill and Other*, states that an entity should perform its annual or interim goodwill impairment test by comparing the fair value of a reporting unit with its carrying amount and recognize an impairment charge for the amount by which the carrying amount exceeds the reporting unit's fair value. ASC 350 also states that a reporting unit with a zero or negative carrying amount is not required to perform a qualitative assessment. Our Sirius XM reporting unit, which has an allocated goodwill balance of \$2,290, had a negative carrying amount as of December 31, 2021.

As of December 31, 2021, there were no indicators of impairment, and no impairment losses were recorded for goodwill during the year ended December 31, 2021.

During the year ended December 31, 2020, we performed a quantitative goodwill assessment and determined the fair value of our reporting units using a combination of an income approach, employing a discounted cash flow model, and a market approach. The discounted cash flow model relied on making assumptions, such as the extent of the economic downturn related to the COVID-19 pandemic, the expected timing of recovery, expected growth in profitability and discount rate, which we believed were appropriate. Additionally, assumptions related to guideline company financial multiples used in the market approach decreased based on market observations. The results of our 2020 goodwill impairment test indicated that the estimated fair value of the Sirius XM reporting unit exceeded its carrying amount. The carrying amount of the Pandora reporting unit exceeded its estimated fair value primarily due to a reduction in the long-term forecast to reflect increased costs related to royalty rates for streaming and increased uncertainty surrounding the projected demand for advertising and decrease of listening hours. As a result, we recorded a goodwill impairment charge of \$956 during the year ended December 31, 2020 to write down the carrying amount of the Pandora goodwill in the Impairment, restructuring and acquisitions line item in our

consolidated statements of comprehensive income. No impairment losses were recorded for goodwill during the year ended December 31, 2019.

As of December 31, 2021, the cumulative balance of goodwill impairments recorded was \$5,722, of which \$4,766 was recognized during the year ended December 31, 2008 and is included in the carrying amount of the goodwill allocated to our Sirius XM reporting unit and \$956 was recognized during the year ended December 31, 2020 and is included in the carrying amount of the goodwill allocated to our Pandora reporting unit.

As of December 31, 2021, the carrying amount of goodwill for our Sirius XM and Pandora reporting units was \$2,290 and \$861, respectively. During the year ended December 31, 2021, we recorded \$6 of goodwill related to purchase accounting adjustments for the acquisition of Stitcher and \$23 of goodwill related to a small acquisition which was recorded to our Pandora reporting unit. Refer to Note 3 for information regarding these acquisitions.

Refer to the table below for our goodwill activity for the years ended December 31, 2021 and 2020:

	Sirius XM	Pandora	Total
Balance at January 1, 2020	\$ 2,290	\$ 1,553	\$ 3,843
Acquisition	_	235	235
Impairment charge	_	(956)	(956)
Balance at December 31, 2020	2,290	832	3,122
Acquisition	_	29	29
Balance at December 31, 2021	\$ 2,290	\$ 861	\$ 3,151

#### (9) Intangible Assets

Our intangible assets include the following:

			December 31, 2021			December 31, 2020	
	Weighted Average Useful Lives	Gross Carrying Value	Accumulated Amortization	Net Carrying Value	Gross Carrying Value	Accumulated Amortization	Net Carrying Value
Indefinite life intangible assets:							
FCC licenses	Indefinite	\$ 2,084	\$ —	\$ 2,084	\$ 2,084	\$ —	\$ 2,084
Trademarks	Indefinite	250	_	250	250	_	250
Definite life intangible assets:							
OEM relationships	15 years	220	(120)	100	220	(105)	115
Licensing agreements	12 years	45	(45)	_	45	(45)	_
Software and technology	7 years	31	(19)	12	31	(16)	15
Due to Pandora and Stitcher Acquisitions:							
Indefinite life intangible assets:							
Trademarks	Indefinite	311	_	311	311	_	311
Definite life intangible assets:							
Customer relationships	8 years	441	(164)	277	441	(104)	337
Software and technology	5 years	373	(221)	152	373	(145)	228
Total intangible assets		\$ 3,755	\$ (569)	\$ 3,186	\$ 3,755	\$ (415)	\$ 3,340

#### Indefinite Life Intangible Assets

We have identified our FCC licenses and XM and Pandora trademarks as indefinite life intangible assets after considering the expected use of the assets, the regulatory and economic environment within which they are used and the effects of obsolescence on their use.

We hold FCC licenses to operate our satellite digital audio radio service and provide ancillary services. Each of the FCC licenses authorizes us to use radio spectrum, a reusable resource that does not deplete or exhaust over time.

ASC 350-30-35, Intangibles - Goodwill and Other, provides for an option to first perform a qualitative assessment to determine whether it is more likely than not that an asset is impaired. If the qualitative assessment supports that it is more likely than not that the fair value of the asset exceeds its carrying value, a quantitative impairment test is not required. If the qualitative assessment does not support the fair value of the asset, then a quantitative assessment is performed. Our annual impairment assessment of our identifiable indefinite lived intangible assets is performed as of the fourth quarter of each year. An assessment is performed at other times if an event occurs or circumstances change that would more likely than not reduce the fair value of the asset below its carrying value. If the carrying value of the intangible assets exceeds its fair value, an impairment loss is recognized in an amount equal to that excess.

We completed our qualitative assessments of our FCC licenses and XM and Pandora trademarks during the fourth quarter of 2021. As of the date of our annual assessment, our qualitative impairment assessment of the fair value of our indefinite intangible assets indicated that the fair value of such assets exceeded their carrying value and therefore were not at risk of impairment.

We completed a quantitative assessment of our FCC licenses and XM and Pandora trademarks during the fourth quarter of 2020 and qualitative assessments during the fourth quarter of 2019. As of the date of our annual assessment for 2020, our impairment assessment of the fair value of our indefinite intangible assets indicated that the carrying value of our Pandora trademark exceeded the fair value of the asset by \$20. The excess carrying value was written off and recognized in the Impairment, restructuring and acquisition costs line item in our consolidated statements of comprehensive income. The impairment assessment for our FCC licenses and XM trademark indicate that the fair value of such assets substantially exceeded their carrying value and therefore were not at risk of impairment.

During the year ended December 31, 2020, we also recognized an impairment loss of less than \$\\$\$ for intangible assets with indefinite lives related to the termination of the Automatic service.

No impairment loss was recognized for intangible assets with indefinite lives during the year ended December 31, 2019.

#### Definite Life Intangible Assets

Definite-lived intangible assets are amortized over their respective estimated useful lives to their estimated residual values, in a pattern that reflects when the economic benefits will be consumed, and are reviewed for impairment under the provisions of ASC 360-10-35, *Property, Plant and Equipment/Overall/Subsequent Measurement.* We review intangible assets subject to amortization for impairment whenever events or circumstances indicate that the carrying amount of an asset may not be recoverable. If the sum of the expected cash flows, undiscounted and without interest, is less than the carrying amount of the asset, an impairment loss is recognized in an amount by which the carrying amount of the asset exceeds its fair value. No impairment loss was recognized for intangible assets with definite lives during the years ended December 31, 2021, 2020 and 2019.

Amortization expense for all definite life intangible assets was \$154, \$152, and \$141 for the years ended December 31, 2021, 2020 and 2019, respectively. There were retirements of definite lived intangible assets of \$17, which included a loss of \$4, due to the termination of the Automatic service, during the year ended December 31, 2020. There were no retirements of definite lived intangible assets during the year ended December 31, 2021.

The expected amortization expense for each of the fiscal years 2022 through 2026 and for periods thereafter is as follows:

Years ending December 31,	An	nount
2022	\$	153
2023		141
2024		75
2025		69
2026		68
Thereafter		35
Total definite life intangible assets, net	\$	541

#### (10) Property and Equipment

Property and equipment, including satellites, are stated at cost, less accumulated depreciation. Equipment under capital leases is stated at the present value of minimum lease payments. Depreciation is calculated using the straight-line method over the following estimated useful life of the asset:

Satellite system	15 years
Terrestrial repeater network	5 - 15 years
Broadcast studio equipment	3 - 15 years
Capitalized software and hardware	2 - 7 years
Satellite telemetry, tracking and control facilities	3 - 15 years
Furniture, fixtures, equipment and other	2 - 7 years
Building	20 or 30 years
Leasehold improvements	Lesser of useful life or remaining lease term

We review long-lived assets, such as property and equipment, for impairment whenever events or changes in circumstances indicate the carrying amount may not be recoverable. Recoverability of assets to be held and used is measured by a comparison of the carrying amount of an asset to the estimated undiscounted future cash flows expected to be generated by the asset. If the carrying amount of an asset exceeds the estimated future cash flows, an impairment charge is recognized in an amount by which the carrying amount exceeds the fair value of the asset. During the year ended December 31, 2021, we recorded an impairment charge of \$220 related to our SXM-7 satellite which was offset by insurance recoveries. Refer to the discussion below for more information. We did not record any impairments during the years ended December 31, 2020 and 2019.

Property and equipment, net, consists of the following:

	Decei	December 31, 2021		December 31, 2020
Satellite system	\$	1,841	\$	1,587
Terrestrial repeater network		116		105
Leasehold improvements		109		111
Broadcast studio equipment		119		100
Capitalized software and hardware		1,591		1,372
Satellite telemetry, tracking and control facilities		67		96
Furniture, fixtures, equipment and other		92		92
Land		38		38
Building		81		63
Construction in progress		156		510
Total property and equipment		4,210		4,074
Accumulated depreciation		(2,760)		(2,445)
Property and equipment, net	\$	1,450	\$	1,629

Construction in progress consists of the following:

	December 31, 2021	December 31, 2020
Satellite system	\$ 64	\$ 429
Terrestrial repeater network	1	8
Capitalized software and hardware	78	52
Other	13	21
Construction in progress	\$ 156	\$ 510

Depreciation and amortization expense on property and equipment was \$379, \$354, and \$327 for the years ended December 31, 2021, 2020 and 2019, respectively. We retired property and equipment of \$65 during the year ended December 31, 2021. Property and equipment of \$94, which included a loss of \$13 related to the termination of the Automatic service, was retired during the year ended December 31, 2020. We retired property and equipment of \$9 during the year ended December 31, 2019.

We capitalize a portion of the interest on funds borrowed to finance the construction and launch of our satellites. Capitalized interest is recorded as part of the asset's cost and depreciated over the satellite's useful life. Capitalized interest costs were \$7, \$19, and \$17 for the years ended December 31, 2021, 2020 and 2019, respectively, which related to the construction of our SXM-7 and SXM-8 satellites. We also capitalize a portion of share-based compensation related to employee time for capitalized software projects. Capitalized share-based compensation costs were \$13, \$17 and \$13 for the years ended December 31, 2021, 2020 and 2019, respectively.

#### Satellites

As of December 31, 2021, we operated a fleet of six satellites. Each satellite requires an FCC license, and prior to the expiration of each license, we are required to apply for a renewal of the FCC satellite license. The renewal and extension of our licenses is reasonably certain at minimal cost, which is expensed as incurred. The chart below provides certain information on our satellites as of December 31, 2021:

Satellite Description	Year Delivered	Estimated End of Depreciable Life	FCC License Expiration Year
SIRIUS FM-5	2009	2024	2025
SIRIUS FM-6	2013	2028	2022
XM-3	2005	2020	2026
XM-4	2006	2021	2022
XM-5	2010	2025	2026
SXM-8	2021	2036	2029

On December 13, 2020, our SXM-7 satellite was launched and in-orbit testing of SXM-7 began on January 4, 2021. During in-orbit testing of SXM-7, events occurred which caused failures of certain SXM-7 payload units. The evaluation of SXM-7 concluded that the satellite will not function as intended, which we considered to be a triggering event prompting the assessment as to whether the asset's carrying value of \$220 was recoverable. In determining recoverability of SXM-7, we compared the asset's carrying value to the undiscounted cash flows derived from the satellite. SXM-7 was determined to be a total loss and therefore, we determined that the carrying value of the satellite was not recoverable and an impairment charge of \$220 was recorded to Impairment, restructuring and acquisition costs in our consolidated statements of comprehensive income for the year ended December 31, 2021. SXM-7 remains in-orbit at its assigned orbital location, but is not being used to provide satellite radio service.

We procured insurance for SXM-7 to cover the risks associated with the satellite's launch and first year of in-orbit operation. The aggregate coverage under the insurance policies with respect to SXM-7 was \$225. During the year ended December 31, 2021, we collected \$225 of insurance recoveries. Of this amount, \$220 has been recorded as a reduction to Impairment, restructuring and acquisition costs during the year ended December 31, 2021. The remaining \$5 has been recorded in Other income during the year ended December 31, 2021.

Our SXM-8 satellite was successfully launched into a geostationary orbit on June 6, 2021 and was placed into service on September 8, 2021 following the completion of in-orbit testing. The SXM-8 satellite replaced the XM-3 satellite, which remains available as an in-orbit spare along with XM-5.

#### (11) Leases

We have operating and finance leases for offices, terrestrial repeaters, data centers and certain equipment. Our leases have remaining lease terms of less than 1 year to 20 years, some of which may include options to extend the leases for up to 5 years, and some of which may include options to terminate the leases within1 year. We elected the practical expedient to account for the lease and non-lease components as a single component. Additionally, we elected the practical expedient to not recognize right-of-use assets or lease liabilities for short-term leases, which are those leases with a term of twelve months or less at the lease commencement date.

During the year ended December 31, 2021, we ceased using certain leased locations and recorded an impairment charge of \$8 to write down the carrying value of the right-of-use assets for these locations to their estimated fair values. Refer to Note 5 for additional information.

The components of lease expense were as follows:

		For the Years Ended Decemb			
	<u></u>	2021	2020		
Operating lease cost	\$	76 \$	82		
Finance lease cost		1	1		
Sublease income		(4)	(2)		
Total lease cost	\$	73 \$	81		
Supplemental cash flow information related to leases was as follows:					
		For the Years Ended December 2021	ber 31, 2020		
Cash paid for amounts included in the measurement of lease liabilities:		2021	2020		
Operating cash flows from operating leases	\$	82 \$	79		
Financing cash flows from finance leases	\$	1 \$	1		
Right-of-use assets obtained in exchange for lease obligations:					
Operating leases	\$	3 \$	7		
Supplemental balance sheet information related to leases was as follows:					
	Decemb	per 31, 2021 Decem	ber 31, 2020		
Operating Leases		2.50			
Operating lease right-of-use assets	\$	358 \$	427		
Operating lease current liabilities		49	48		
Operating lease liabilities		362	419		
Total operating lease liabilities	\$	411 \$	467		
	Decembe	r 31, 2021 Decemb	per 31, 2020		
Finance Leases					
Property and equipment, gross	\$	9 \$	8		
Accumulated depreciation		(8)	(7)		
Property and equipment, net	\$	1 \$	1		
Current maturities of debt	\$	— \$	1		
T		_	_		
Long-term debt	\$	<u> </u>	1		
Total finance lease liabilities	<u> </u>				
	December 3	1, 2021 Decemb	er 31, 2020		
	<del></del>	1, 2021 Decemb	er 31, 2020		
Total finance lease liabilities	<del></del>	1, 2021 Decemb	er 31, 2020 9 years		

	December 31, 2021	December 31, 2020
Weighted Average Discount Rate		
Operating leases	5.3 %	5.3 %
Finance leases	— %	1.7 %

Maturities of lease liabilities were as follows:

	Operating Leases	Finance Leases
Year ending December 31,		
2022	\$ 69	\$ _
2023	71	_
2024	61	_
2025	60	_
2026	58	_
Thereafter	187	_
Total future minimum lease payments	506	_
Less imputed interest	(95)	_
Total	\$ 411	\$ _

#### (12) Related Party Transactions

In the normal course of business, we enter into transactions with related parties such as Sirius XM Canada and SoundCloud.

#### Liberty Media

As of December 31, 2021, Liberty Media beneficially owned, directly and indirectly, approximately81% of the outstanding shares of our common stock. Liberty Media has three of its executives and one of its directors on our board of directors. Gregory B. Maffei, the President and Chief Executive Officer of Liberty Media, is the Chairman of our board of directors.

On February 1, 2021, Holdings entered into a tax sharing agreement with Liberty Media governing the allocation of consolidated U.S. income tax liabilities and setting forth agreements with respect to other tax matters. The tax sharing agreement was negotiated and approved by a special committee of Holdings' board of directors, all of whom are independent of Liberty Media.

Under the Internal Revenue Code, two corporations may form a consolidated tax group, and file a consolidated federal income tax return, if one corporation owns stock representing at least 80% of the voting power and value of the outstanding capital stock of the other corporation. As of December 31, 2021, Liberty Media beneficially owned, directly and indirectly, approximately 81% of the outstanding shares of our common stock resulting in Holdings and Liberty Media becoming members of the same consolidated tax group. The tax sharing agreement governs certain matters related to the resulting consolidated federal income tax returns, as well as state and local returns filed on a consolidated or combined basis.

#### Sirius XM Canada

Sirius XM holds a 70% equity interest and 33% voting interest in Sirius XM Canada, a privately held corporation. We own 591 shares of preferred stock of Sirius XM Canada, which has a liquidation preference of one Canadian dollar per share. Sirius XM also made a loan to Sirius XM Canada in the aggregate amount of \$131. The loan is denominated in Canadian dollars and is considered a long-term investment with any unrealized gains or losses reported within Accumulated other comprehensive (loss) income. During the years ended December 31, 2021, 2020 and 2019, Sirius XM Canada repaid \$2, \$11 and less than \$1 of the principal amount of the loan, respectively.

Sirius XM has a Services Agreement and an Advisory Services Agreement with Sirius XM Canada. Each agreement has athirty-year term. Pursuant to the Services Agreement, Sirius XM Canada currently pays Sirius XM 25% of its gross revenues on a monthly basis, and pursuant to the Advisory Services Agreement, Sirius XM Canada pays Sirius XM 5% of its gross revenues on a monthly basis.

Sirius XM Canada is accounted for as an equity method investment, and its results are not consolidated in our consolidated financial statements. Sirius XM Canada does not meet the requirements for consolidation as we do not have the ability to direct the most significant activities that impact Sirius XM Canada's economic performance.

Our related party long-term assets as of December 31, 2021 and December 31, 2020 included the carrying value of our investment balance in Sirius XM Canada of \$34 and \$332, respectively, and, as of December 31, 2021 and December 31, 2020, also included \$120 and \$123, respectively, for the long-term value of the outstanding loan to Sirius XM Canada.

Sirius XM Canada paid gross dividends to us of \$\mathbb{Q}\$ during each of the years ended December 31, 2021, 2020 and 2019. Dividends are first recorded as a reduction to our investment balance in Sirius XM Canada to the extent a balance exists and then as Other (expense) income for any remaining portion.

We recorded revenue from Sirius XM Canada as Other revenue in our consolidated statements of comprehensive income of \$01, \$97 and \$98 for the years ended December 31, 2021, 2020 and 2019, respectively.

#### SoundCloud

In February 2020, Sirius XM completed a \$75 investment in SoundCloud's Series G Membership Units ("Series G Units"). The Series G Units are convertible at the option of the holders at any time into shares of ordinary membership units of SoundCloud at a ratio of one ordinary membership unit for each Series G Unit. The investment in SoundCloud is accounted for as an equity method investment which is recorded in Related party long-term assets in our consolidated balance sheets. Sirius XM has appointed two individuals to serve on SoundCloud's nine-member board of managers. Sirius XM's share of SoundCloud's net loss was \$2 and \$1 for the years ended December 31, 2021 and 2020, respectively, which was recorded in Other (expense) income in our consolidated statements of comprehensive income.

In addition to our investment in SoundCloud, Pandora has an agreement with SoundCloud to be its exclusive US ad sales representative. Through this arrangement, Pandora offers advertisers the ability to execute campaigns in the US across the Pandora and SoundCloud listening platforms. We recorded revenue share expense of \$60, \$55 and \$40 for the years ended December 31, 2021, 2020 and 2019, respectively. We also had related party liabilities of \$24 as of each of December 31, 2021 and 2020, related to this agreement.

#### (13) Debt

Our debt as of December 31, 2021 and December 31, 2020 consisted of the following:

					Principal Amount at	Carrying	value <sup>(a)</sup> at
Issuer / Borrower	Issued	Debt	Maturity Date	Interest Payable	December 31, 2021	December 31, 2021	December 31, 2020
Sirius XM (b) (f)	July 2017	3.875% Senior Notes	August 1, 2022	semi-annually on February 1 and August 1	<b>s</b> —	\$ —	\$ 997
Pandora (c) (d)	June 2018	1.75% Convertible Senior Notes	December 1, 2023	semi-annually on June 1 and December 1	193	177	170
Sirius XM (b) (f)	July 2019	4.625% Senior Notes	July 15, 2024	semi-annually on January 15 and July 15	_	_	1,488
Sirius XM (b) (f)	May 2016	5.375% Senior Notes	July 15, 2026	semi-annually on January 15 and July 15	_	_	993
Sirius XM (b) (g)	August 2021	3.125% Senior Notes	September 1, 2026	semi-annually on March 1 and September 1	1,000	990	_
Sirius XM (b)	July 2017	5.00% Senior Notes	August 1, 2027	semi-annually on February 1 and August 1	1,500	1,491	1,490
Sirius XM (b) (g)	June 2021	4.00% Senior Notes	July 15, 2028	semi-annually on January 15 and July 15	2,000	1,979	_
Sirius XM (b)	June 2019	5.500% Senior Notes	July 1, 2029	semi-annually on January 1 and July 1	1,250	1,239	1,237
Sirius XM (b)	June 2020	4.125% Senior Notes	July 1, 2030	semi-annually on January 1 and July 1	1,500	1,485	1,484
Sirius XM (b) (g)	August 2021	3.875% Senior Notes	September 1, 2031	semi-annually on March 1 and September 1	1,500	1,484	_
Sirius XM (e)	December 2012	Senior Secured Revolving Credit Facility (the "Credit Facility")	August 31, 2026	variable fee paid quarterly	_	_	649
Sirius XM	Various	Finance leases	Various	n/a	n/a	_	1
Total Debt						8,845	8,509
Less: total cur	rent maturities					_	1
Less: total def	erred financing costs					13	9
Total long-term d	ebt					\$ 8,832	\$ 8,499

- (a) The carrying value of the obligations is net of any remaining unamortized original issue discount.
- (b) All material domestic subsidiaries, including Pandora and its subsidiaries, that guarantee the Credit Facility have guaranteed these notes.
- (c) Holdings has unconditionally guaranteed all of the payment obligations of Pandora under these notes.
- (d) We acquired \$193 in principal amount of the 1.75% Convertible Senior Notes due 2023 as part of the acquisition of Pandora Media, Inc. in 2019. We allocate the principal amount of the 1.75% Convertible Senior Notes due 2023 between the liability and equity components. The value assigned to the debt components of the 1.75% Convertible Senior Notes due 2023 is the estimated fair value as of the issuance date of similar debt without the conversion feature. The difference between the fair value of the debt and this estimated fair value represents the value which has been assigned to the equity component. The equity component is recorded to additional paid-in capital and is not remeasured as long as it continues to meet the conditions for equity classification. The excess of the principal amount of the Notes over the carrying amount of the liability component is recorded as a debt discount and is being amortized to interest expense using the effective interest method through the December 1, 2023 maturity date. The 1.75% Convertible Senior Notes due 2023 were not convertible into common stock and not redeemable as of December 31, 2021. As a result, we have classified the debt as Long-term within our consolidated balance sheets.
- (e) In August 2021, Sirius XM entered into an amendment to extend the maturity of the \$1,750 Credit Facility to August 31, 2026. Sirius XM's obligations under the Credit Facility are guaranteed by certain of its material domestic subsidiaries,

#### SIRIUS XM HOLDINGS INC. AND SUBSIDIARIES NOTES TO CONSOLIDATED FINANCIAL STATEMENTS - Continued

(Dollars and shares in millions, except per share amounts)

including Pandora and its subsidiaries, and are secured by a lien on substantially all of Sirius XM's assets and the assets of its material domestic subsidiaries. Interest on borrowings is payable on a monthly basis and accrues at a rate based on LIBOR plus an applicable rate. Sirius XM is also required to pay a variable fee on the average daily unused portion of the Credit Facility which is payable on a quarterly basis. The variable rate for the unused portion of the Credit Facility was 0.25% per annum as of December 31, 2021. All of Sirius XM's outstanding borrowings under the Credit Facility are classified as Long-term debt within our consolidated balance sheets due to the long-term maturity of this debt. Additionally, the amount available for future borrowing under the Credit Facility is reduced by letters of credit issued for the benefit of Pandora, which were \$1 as of December 31, 2021.

- On August 2, 2021, Sirius XM redeemed \$1,000 in outstanding principal amount of the 3.875% Senior Notes due 2022 for an aggregate redemption price, including interest, of \$1,019. On August 16, 2021, Sirius XM redeemed \$1,500 in outstanding principal amount of the 4.625% Senior Notes due 2024 for an aggregate redemption price, including premium and interest, of \$1,541. On September 2, 2021, Sirius XM redeemed \$1,000 in outstanding principal amount of the 5.375% Senior Notes due 2026 for an aggregate redemption price, including premium and interest, of \$1,034. During the years ended December 31, 2021, we recognized \$83 to Loss on extinguishment of debt, consisting primarily of redemption premiums of \$62, unamortized discount and unamortized deferred financing fees, as a result of these redemptions.
- On August 16, 2021, Sirius XM issued \$1,000 aggregate principal amount of the 3.125% Senior Notes due 2026 and \$1,500 aggregate principal amount of the 3.875% Senior Notes due 2031 with a net original issuance discount and deferred financing costs in aggregate of \$13 and \$19, respectively. On June 21, 2021, Sirius XM issued \$2,000 aggregate principal amount of the 4.00% Senior Notes due 2028 with a net original issuance discount and deferred financing costs in the aggregate of \$\mathbb{Z}6\$.

#### Retired Debt

On July 9, 2020, Sirius XM redeemed \$500 of its then outstanding 4.625% Senior Notes due 2023 for an aggregate redemption price, including premium and interest, of \$507. On July 9, 2020, Sirius XM also redeemed \$1,000 of its then outstanding 5.375% Senior Notes due 2025 for an aggregate redemption price, including premium and interest, of \$1,039. During the year ended December 31, 2020, we recognized \$40 to Loss on extinguishment of debt, consisting primarily of redemption premiums, unamortized discount and deferred financing fees, as a result of these redemptions.

On July 18, 2019, Sirius XM redeemed \$1,500 in outstanding principal amount of the 6.00% Senior Notes due 2024 for an aggregate redemption price, including premium and interest, of \$1,546. During the year ended December 31, 2019, we recognized \$57 to Loss on extinguishment of debt, consisting primarily of unamortized discount, deferred financing fees and redemption premium, as a result of this redemption.

#### **Covenants and Restrictions**

Under the Credit Facility, Sirius XM, our wholly owned subsidiary, must comply with a debt maintenance covenant that it cannot exceed a total leverage ratio, calculated as consolidated total debt to consolidated operating cash flow, of 5.0 to 1.0. The Credit Facility generally requires compliance with certain covenants that restrict Sirius XM's ability to, among other things, (i) incur additional indebtedness, (ii) incur liens, (iii) pay dividends or make certain other restricted payments, investments or acquisitions, (iv) enter into certain transactions with affiliates, (v) merge or consolidate with another person, (vi) sell, assign, lease or otherwise dispose of all or substantially all of Sirius XM's assets, and (vii) make voluntary prepayments of certain debt, in each case subject to exceptions.

The indentures governing Sirius XM's notes restrict Sirius XM's non-guarantor subsidiaries' ability to create, assume, incur or guarantee additional indebtedness without such non-guarantor subsidiary guaranteeing each such series of notes on a pari passu basis. The indentures governing the notes also contain covenants that, among other things, limit Sirius XM's ability and the ability of its subsidiaries to create certain liens; enter into sale/leaseback transactions; and merge or consolidate.

Under Sirius XM's debt agreements, the following generally constitute an event of default: (i) a default in the payment of interest; (ii) a default in the payment of principal; (iii) failure to comply with covenants; (iv) failure to pay other indebtedness after final maturity or acceleration of other indebtedness exceeding a specified amount; (v) certain events of bankruptcy; (vi) a judgment for payment of money exceeding a specified aggregate amount; and (vii) voidance of subsidiary guarantees, subject to grace periods where applicable. If an event of default occurs and is continuing, our debt could become immediately due and payable.

The indenture governing the Pandora 2023 Notes (as defined below) contains covenants that limit Pandora's ability to merge or consolidate and provides for customary events of default, which include nonpayment of principal or interest, breach of covenants, payment defaults or acceleration of other indebtedness and certain events of bankruptcy.

At December 31, 2021 and December 31, 2020, we were in compliance with our debt covenants.

#### Pandora Convertible Notes

Pandora's 1.75% Convertible Senior Notes due 2023 (the "Pandora 2023 Notes") are unsecured, senior obligations of Pandora. Holdings has guaranteed the payment and performance obligations of Pandora under the Pandora 2023 Notes and the indenture governing the Pandora 2023 Notes.

The Pandora 2023 Notes will mature on December 1, 2023, unless earlier repurchased or redeemed by Pandora or converted in accordance with their terms. As of December 31, 2021, the conversion rate applicable to the Pandora 2023 Notes was 153.7797 shares of Holdings' common stock per one thousand principal amount of the Pandora 2023 Notes plus carryforward adjustments not yet effected pursuant to the terms of the indenture governing the Pandora 2023 Notes.

#### (14) Stockholders' Equity

#### Common Stock, par value \$0.001 per share

We are authorized to issue up to 9,000 shares of common stock. There were 3,968 and 4,176 shares of common stock issued and 3,967 and 4,173 shares of common stock outstanding on December 31, 2021 and December 31, 2020, respectively.

As of December 31, 2021, there were 241 shares of common stock reserved for issuance in connection with outstanding stock-based awards to members of our board of directors, employees and third parties.

#### Quarterly Dividends

During the year ended December 31, 2021, we declared and paid the following dividends:

<b>Declaration Date</b>	Dividend Per Share	Record Date		Total Amount	Payment Date
January 28, 2021	\$ 0.014641	February 10, 2021	\$	61	February 26, 2021
April 20, 2021	\$ 0.014641	May 7, 2021	\$	60	May 28, 2021
July 19, 2021	\$ 0.014641	August 6, 2021	\$	59	August 30, 2021
October 25, 2021	\$ 0.0219615	November 5, 2021	\$	88	November 29, 2021

#### Stock Repurchase Program

As of December 31, 2021, our board of directors had approved for repurchase an aggregate of \$8,000 of our common stock. Our board of directors did not establish an end date for this stock repurchase program. Shares of common stock may be purchased from time to time on the open market, pursuant to pre-set trading plans meeting the requirements of Rule 10b5-1 under the Exchange Act, in privately negotiated transactions, including transactions with Liberty Media and its affiliates, or otherwise. As of December 31, 2021, our cumulative repurchases since December 2012 under our stock repurchase program totaled 3,559 shares for \$15,920, and \$2,080 remained available for future share repurchases under our stock repurchase program.

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The following table summarizes our total share repurchase activity for the years ended:

	Decembe	r 31, 20	21	December	r 31, i	2020	December	31, 2	2019
Share Repurchase Type	Shares	I	Amount	Shares		Amount	Shares		Amount
Open Market Repurchases (a)	245	\$	1,512	267	\$	1,574	364	\$	2,159

(a) As of December 31, 2021, \$8 of common stock repurchases had not settled, nor been retired, and were recorded as Treasury stock within our consolidated balance sheets and consolidated statement of stockholders' equity (deficit).

#### Preferred Stock, par value \$0.001 per share

We are authorized to issue up to 50 shares of undesignated preferred stock with a liquidation preference of \$0.001 per share. There were no shares of preferred stock issued or outstanding as of December 31, 2021 and December 31, 2020.

#### (15) Benefit Plans

We recognized share-based payment expense of \$202, \$223 and \$250 for the years ended December 31, 2021, 2020 and 2019, respectively. The amount recognized during the year ended December 31, 2019 includes \$21 of share-based compensation expense recorded in Impairment, restructuring, and acquisition costs in our consolidated statements of comprehensive income.

We account for equity instruments granted in accordance with ASC 718, Compensation - Stock Compensation. ASC 718 requires all share-based compensation payments to be recognized in the financial statements based on fair value. We use the Black-Scholes-Merton option-pricing model to value stock option awards and have elected to treat awards with graded vesting as a single award. Share-based compensation expense is recognized ratably over the requisite service period, which is generally the vesting period. We measure restricted stock unit awards using the fair market value of the restricted shares of common stock on the day the award is granted. We measure the value of restricted units that will vest depending a relative total stockholder return metric – that is, the performance of our common stock as compared other companies included in the S&P 500 Index – using a special option-based valuation method, known as a Monte Carlo simulation. Since the results of such awards depend on future results, which are not known on the grant date, the Monte Carlo simulation attempts to take into consideration the terms of the awards, potential future returns, payout rates, and other factors to estimate a fair value of the award. The Monte Carlo simulation method uses factual data for the company and employs various assumptions. Stock-based awards granted to employees, non-employees and members of our board of directors include stock options and restricted stock units.

Fair value as determined using the Black-Scholes-Merton model varies based on assumptions used for the expected life, expected stock price volatility, expected dividend yield and risk-free interest rates. For the years ended December 31, 2021, 2020 and 2019, we estimated the fair value of awards granted using the hybrid approach for volatility, which weights observable historical volatility and implied volatility are expected life assumptions on our common stock. The expected life assumption represents the weighted-average period stock-based awards are expected to remain outstanding. These expected life assumptions are established through a review of historical exercise behavior of stock-based award grants with similar vesting periods. Where historical patterns do not exist for non-employees, contractual terms are used. Dividend yield is based on the current expected annual dividend per share and our stock price. The risk-free interest rate represents the daily treasury yield curve rate at the grant date based on the closing market bid yields on actively traded U.S. treasury securities in the over-the-counter market for the expected term. Our assumptions may change in future periods.

#### 2015 Long-Term Stock Incentive Plan

In May 2015, our stockholders approved the Sirius XM Holdings Inc. 2015 Long-Term Stock Incentive Plan (the "2015 Plan"). Employees, consultants and members of our board of directors are eligible to receive awards under the 2015 Plan. The 2015 Plan provides for the grant of stock options, restricted stock awards, restricted stock units and other stock-based awards that the Compensation Committee of our Board of Directors deems appropriate. Stock-based awards granted under the 2015 Plan are generally subject to a graded vesting requirement, which is generally three to four years from the grant date. Stock options generally expireten years from the date of grant. Restricted stock units include performance-based restricted stock units ("PRSUs"), the vesting of which are subject to the achievement of performance goals and the employee's continued employment and generally cliff vest on the third anniversary of the grant date. Each restricted stock unit entitles the holder to

receive one share of common stock upon vesting. As of December 31, 2021,134 shares of common stock were available for future grants under the 2015 Plan.

In February 2021, the Compensation Committee of our Board of Directors approved a modification to the design of our long-term equity compensation program for our senior management. The Compensation Committee intends to award equity-based compensation to our senior management in the form of: 25% stock options, which awards will vest in equal installments on the first three anniversaries of the date of grant; 25% restricted stock units, which awards will vest in equal installments on the firstthree anniversaries of the date of grant; 25% PRSUs, which will cliff vest on the third anniversary of the date of grant after a two-year performance period if the free cash flow target established by the Compensation Committee is achieved; and 25% PRSUs, which will cliff vest after a three-year performance period based on the performance of our common stock relative to the companies included in the S&P 500 Index. We refer to this performance measure as a relative "TSR" or "total stockholder return" metric. PRSUs based on the relative total stockholder return metric will only vest if our performance achieves at least the 25th percentile, with a target payout requiring performance at the 50th percentile. The settlement of PRSUs earned in respect of the applicable three-year performance period will be generally subject to the executive's continued employment with us through the date the total stockholder return performance is certified by the Compensation Committee.

In connection with our February 2019 acquisition of Pandora, we assumed all shares available for issuance (including any shares that later become available for issuance in accordance with the terms of the applicable plans) under each of the 2014 Stock Incentive Plan of AdsWizz Inc., the Pandora Media, Inc. 2011 Equity Incentive Plan, the Pandora Media, Inc. 2004 Stock Plan and the TheSavageBeast.com, Inc. 2000 Stock Incentive Plan, which were previously approved by stockholders of Pandora or the applicable adopting entity. All shares available under these stock plans became additional shares available for grant pursuant to the terms of the 2015 Plan (as adjusted, to the extent appropriate, to reflect the application of the exchange ratio). Subject to certain limitations set forth in the 2015 Plan, such shares may be used for awards under the 2015 Plan.

#### Other Plans

We maintain six share-based benefit plans in addition to the 2015 Plan — the Sirius XM Radio Inc. 2009 Long-Term Stock Incentive Plan, the Amended and Restated Sirius Satellite Radio 2003 Long-Term Stock Incentive Plan, the 2014 Stock Incentive Plan of AdsWizz Inc., the Pandora Media, Inc. 2011 Equity Incentive Plan, the Pandora Media, Inc. 2004 Stock Plan and the TheSavageBeast.com, Inc. 2000 Stock Incentive Plan. Excluding dividend equivalent units granted as a result of a declared dividend, no further awards may be made under these plans.

The following table summarizes the weighted-average assumptions used to compute the fair value of options granted to employees, members of our board of directors and non-employees:

	Fe	For the Years Ended December 31,		
	2021	2020	2019	
Risk-free interest rate	0.6%	1.0%	2.4%	
Expected life of options — years	6.06	3.91	3.41	
Expected stock price volatility	33%	28%	26%	
Expected dividend yield	1.0%	0.8%	0.8%	

The following table summarizes stock option activity under our share-based plans for the years ended December 31, 2021, 2020 and 2019:

	Options	•	Weighted-Average Exercise Price Per Share	Weighted-Average Remaining Contractual Term (Years)	Aggregate Intrinsic Value
Outstanding at the beginning of January 1, 2019	243	\$	4.22		
Awards granted in connection with acquisition	7	\$	3.85		
Granted	15	\$	6.10		
Exercised	(53)	\$	3.65		
Forfeited, cancelled or expired	(4)	\$	5.58		
Outstanding as of December 31, 2019	208	\$	4.46		
Granted	11	\$	6.87		
Exercised	(33)	\$	3.66		
Forfeited, cancelled or expired	(2)	\$	6.28		
Outstanding as of December 31, 2020	184	\$	4.73		
Granted	54	\$	6.14		
Exercised	(72)	\$	3.98		
Forfeited, cancelled or expired	(5)	\$	6.73		
Outstanding as of December 31, 2021	161	\$	5.47	5.74	\$ 156
Exercisable as of December 31, 2021	101	\$	5.01	4.92	\$ 144

The weighted average grant date fair value per stock option granted during the years ended December 31, 2021, 2020 and 2019 was \$.77, \$1.46 and \$1.26, respectively. The total intrinsic value of stock options exercised during the years ended December 31, 2021, 2020 and 2019 was \$170, \$94 and \$146, respectively. During the years ended December 31, 2021, 2020 and 2019, the number of net settled shares issued as a result of stock option exercises was 22, 8 and 15, respectively.

We recognized share-based payment expense associated with stock options of \$42, \$45 and \$60 for the years ended December 31, 2021, 2020 and 2019, respectively.

The following table summarizes the restricted stock unit, including PRSU, activity under our share-based plans for the years ended December 31, 2021, 2020 and 2019:

	Shares	Grant Date Fair Value Per Sl	hare
Nonvested at the beginning of January 1, 2019	35	\$	5.50
Awards granted in connection with acquisition	48	\$	5.83
Granted	38	\$	6.01
Vested	(38)	\$	5.53
Forfeited	(8)	\$	5.85
Nonvested as of December 31, 2019	75	\$	5.95
Granted	37	\$	6.14
Vested	(32)	\$	5.89
Forfeited	(5)	\$	6.00
Nonvested as of December 31, 2020	75	\$	6.06
Granted	40	\$	6.35
Vested	(26)	\$	6.02
Forfeited	(9)	\$	6.11
Nonvested as of December 31, 2021	80	\$	6.22

The total intrinsic value of restricted stock units, including PRSUs, vesting during the years ended December 31, 2021, 2020 and 2019 was \$66, \$196 and \$235, respectively. During the years ended December 31, 2021, 2020 and 2019, the number of net settled shares issued as a result of restricted stock units vesting totaled 16, 20 and 23, respectively. During the years ended December 31, 2021, 2020 and 2019, we granted 7, 4 and 6 PRSUs to certain employees, respectively. We believe it is probable that the performance target applicable to these PRSUs will be achieved.

In connection with the cash dividends paid during each of the years ended December 31, 2021, 2020 and 2019, we granted less than restricted stock units, including PRSUs, in accordance with the terms of existing award agreements. These grants did not result in any additional incremental share-based payment expense being recognized during the years ended December 31, 2021, 2020 and 2019.

We recognized share-based payment expense associated with restricted stock units, including PRSUs, of \$160, \$178 and \$190 for the years ended December 31, 2021, 2020 and 2019, respectively.

Total unrecognized compensation costs related to unvested share-based payment awards for stock options and restricted stock units, including PRSUs, granted to employees, members of our board of directors and third parties at December 31, 2021 and December 31, 2020 was \$455 and \$385, respectively. The total unrecognized compensation costs at December 31, 2021 are expected to be recognized over a weighted-average period of 2.5 years.

#### 401(k) Savings Plans

Sirius XM Radio Inc. 401(k) Savings Plan

Sirius XM sponsors the Sirius XM Radio Inc. 401(k) Savings Plan (the "Sirius XM Plan") for eligible employees. The Sirius XM Plan allows eligible employees to voluntarily contribute from 1% to 50% of their pre-tax eligible earnings, subject to certain defined limits. We match50% of an employee's voluntary contributions per pay period on the first 6% of an employee's pre-tax salary up to a maximum of 3% of eligible compensation. We may also make additional discretionary matching, true-up matching and non-elective contributions to the Sirius XM Plan. Employer matching contributions under the Sirius XM Plan vest at a rate of 33.33% for each year of employment and are fully vested after three years of employment for all current and future contributions. Our cash employer matching contributions are not used to purchase shares of our common stock on the open market, unless the employee elects our common stock as their investment option for this contribution. In October 2020, the Pandora Media, LLC 401(k) Profit Sharing Plan and Trust merged with the Sirius XM Plan.

We recognized expenses of \$21, \$16 and \$9 for the years ended December 31, 2021, 2020 and 2019, respectively, in connection with the Sirius XM and Pandora Plans.

#### Sirius XM Holdings Inc. Deferred Compensation Plan

The Sirius XM Holdings Inc. Deferred Compensation Plan (the "DCP") allows members of our board of directors and certain eligible employees to defer all or a portion of their base salary, cash incentive compensation and/or board of directors' cash compensation, as applicable. Pursuant to the terms of the DCP, we may elect to make additional contributions beyond amounts deferred by participants, but we are under no obligation to do so. We have established a grantor (or "rabbi") trust to facilitate the payment of our obligations under the DCP.

Contributions to the DCP, net of withdrawals, were \$4, \$8 and \$7 for the years ended December 31, 2021, 2020 and 2019, respectively. As of December 31, 2021 and December 31, 2020, the fair value of the investments held in the trust were \$56 and \$46, respectively, which is included in Other long-term assets in our consolidated balance sheets and classified as trading securities. Trading gains and losses associated with these investments are recorded in Other (expense) income within our consolidated statements of comprehensive income. The associated liability is recorded within Other long-term liabilities in our consolidated balance sheets, and any increase or decrease in the liability is recorded in General and administrative expense within our consolidated statements of comprehensive income. We recorded gains on investments held in the trust of \$5, \$3 and \$3 for the years ended December 31, 2021, 2020 and 2019, respectively.

#### (16) Commitments and Contingencies

The following table summarizes our expected contractual cash commitments as of December 31, 2021:

	2022	 2023	 2024	 2025	 2026	Thereafter	Total
Debt obligations	\$ _	\$ 193	\$ _	\$ _	\$ 1,000	\$ 7,750	\$ 8,943
Cash interest payments	392	383	379	379	378	979	2,890
Satellite and transmission	114	141	120	27	1	9	412
Programming and content	496	395	247	128	50	148	1,464
Sales and marketing	67	21	4	3	3	3	101
Satellite incentive payments	7	7	8	7	4	19	52
Operating lease obligations	68	65	51	48	44	92	368
Royalties, minimum guarantees and other	303	498	26	8	1	2	838
Total (1)	\$ 1,447	\$ 1,703	\$ 835	\$ 600	\$ 1,481	\$ 9,002	\$ 15,068

(1) The table does not include our reserve for uncertain tax positions, which at December 31, 2021 totaled \$35.

Debt obligations. Debt obligations include principal payments on outstanding debt and finance lease obligations.

Cash interest payments. Cash interest payments include interest due on outstanding debt and capital lease payments through maturity.

Satellite and transmission. We have entered into agreements with third parties to design, build and launchtwo new satellites, SXM-9 and SXM-10. We also have entered into agreements with third parties to operate and maintain satellite telemetry, tracking and control facilities and certain components of our terrestrial repeater networks.

Programming and content. We have entered into various programming and content agreements. Under the terms of these agreements, our obligations include fixed payments, advertising commitments and revenue sharing arrangements. In certain of these agreements, the future revenue sharing costs are dependent upon many factors and are difficult to estimate; therefore, they are not included in our minimum contractual cash commitments.

Sales and marketing. We have entered into various marketing, sponsorship and distribution agreements to promote our brands and are obligated to make payments to sponsors, retailers, automakers, radio manufacturers and other third parties under

these agreements. Certain programming and content agreements also require us to purchase advertising on properties owned or controlled by the licensors.

Satellite incentive payments. Boeing Satellite Systems International, Inc., the manufacturer of certain of our in-orbit satellites, may be entitled to future in-orbit performance payments upon XM-4 meeting its fifteen-year design life, which we expect to occur. Boeing may also be entitled to up to \$10 of additional incentive payments if our XM-4 satellite continues to operate above baseline specifications during the five years beyond the satellite's fifteen-year design life.

Maxar Technologies (formerly Space Systems/Loral), the manufacturer of certain of our in-orbit satellites, may be entitled to future in-orbit performance payments upon XM-5, SIRIUS FM-6, and SXM-8 meeting their fifteen-year design life, which we expect to occur.

Operating lease obligations. We have entered into both cancelable and non-cancelable operating leases for office space, terrestrial repeaters, data centers and equipment. These leases provide for minimum lease payments, additional operating expense charges, leasehold improvements and rent escalations that have initial terms ranging from one to fifteen years, and certain leases have options to renew. Total rent recognized in connection with leases for the years ended December 31, 2021, 2020 and 2019 was \$69, \$73 and \$75, respectively.

Royalties, Minimum Guarantees and Other. We have entered into music royalty arrangements that include fixed payments. Certain of our content agreements also contain minimum guarantees. During the year ended December 31, 2021, we prepaid \$5 in content costs related to minimum guarantees. As of December 31, 2021, we had future fixed minimum guarantee commitments of \$444, of which \$24 will be paid in 2022 and the remainder will be paid thereafter. On a quarterly basis, we record the greater of the cumulative actual content costs incurred or the cumulative minimum guarantee based on forecasted usage for the minimum guarantee period. The minimum guarantee period is the period of time that the minimum guarantee relates to, as specified in each agreement, which may be annual or a longer period. The cumulative minimum guarantee, based on forecasted usage, considers factors such as listening hours, revenue, subscribers and other terms of each agreement that impact our expected attainment or recoupment of the minimum guarantees based on the relative attribution method.

Several of our content agreements also include provisions related to the royalty payments and structures of those agreements relative to other content licensing arrangements, which, if triggered, cause our payments under those agreements to escalate. In addition, record labels, publishers and performing rights organizations ("PROs") with whom we have entered into direct license agreements have the right to audit our content payments, and such audits often result in disputes over whether we have paid the proper content costs.

We have also entered into various agreements with third parties for general operating purposes. The cost of our common stock acquired in our capital return program but not paid for as of December 31, 2021 was also included in this category.

In addition to the minimum contractual cash commitments described above, we have entered into other variable cost arrangements. These future costs are dependent upon many factors and are difficult to anticipate; however, these costs may be substantial. We may enter into additional programming, distribution, marketing and other agreements that contain similar variable cost provisions. We also have a surety bond of approximately \$45 primarily used as security against non-performance in the normal course of business. We do not have any other significant off-balance sheet financing arrangements that are reasonably likely to have a material effect on our financial condition, results of operations, liquidity, capital expenditures or capital resources.

#### Legal Proceedings

In the ordinary course of business, we are a defendant or party to various claims and lawsuits, including those discussed below.

We record a liability when we believe that it is both probable that a liability will be incurred, and the amount of loss can be reasonably estimated. We evaluate developments in legal matters that could affect the amount of liability that has been previously accrued and make adjustments as appropriate. Significant judgment is required to determine both probability and the estimated amount of a loss or potential loss. We may be unable to reasonably estimate the reasonably possible loss or range of

loss for a particular legal contingency for various reasons, including, among others, because: (i) the damages sought are indeterminate; (ii) the proceedings are in the relative early stages; (iii) there is uncertainty as to the outcome of pending proceedings (including motions and appeals); (iv) there is uncertainty as to the likelihood of settlement and the outcome of any negotiations with respect thereto; (v) there remain significant factual issues to be determined or resolved; (vi) the relevant law is unsettled; or (vii) the proceedings involve novel or untested legal theories. In such instances, there may be considerable uncertainty regarding the ultimate resolution of such matters, including the likelihood or magnitude of a possible eventual loss, if any.

Pre-1972 Sound Recording Litigation. On October 2, 2014, Flo & Eddie Inc. filed a class action suit against Pandora in the federal district court for the Central District of California. The complaint alleges a violation of California Civil Code Section 980, unfair competition, misappropriation and conversion in connection with the public performance of sound recordings recorded prior to February 15, 1972 (which we refer to as, "pre-1972 recordings"). On December 19, 2014, Pandora filed a motion to strike the complaint pursuant to California's Anti-Strategic Lawsuit Against Public Participation ("Anti-SLAPP") statute, which following denial of Pandora's motion was appealed to the Ninth Circuit Court of Appeals. In March 2017, the Ninth Circuit requested certification to the California Supreme Court on the substantive legal questions. The California Supreme Court accepted certification. In May 2019, the California Supreme Court issued an order dismissing consideration of the certified questions on the basis that, following the enactment of the Orrin G. Hatch-Bob Goodlatte Music Modernization Act, Pub. L. No. 115-264, 132 Stat. 3676 (2018) (the "MMA"), resolution of the questions posed by the Ninth Circuit Court of Appeals was no longer "necessary to . . . settle an important question of law."

The MMA grants a potential federal preemption defense to the claims asserted in the aforementioned lawsuits. In July 2019, Pandora took steps to avail itself of this preemption defense, including making the required payments under the MMA for certain of its uses of pre-1972 recordings. Based on the federal preemption contained in the MMA (along with other considerations), Pandora asked the Ninth Circuit to order the dismissal of the Flo & Eddie, Inc. v. Pandora Media, Inc. case. On October 17, 2019, the Ninth Circuit Court of Appeals issued a memorandum disposition concluding that the question of whether the MMA preempts Flo and Eddie's claims challenging Pandora's performance of pre-1972 recordings "depends on various unanswered factual questions" and remanded the case to the District Court for further proceedings.

In October 2020, the District Court denied Pandora's renewed motion to dismiss the case under California's anti-SLAPP statute, finding the case no longer qualified for anti-SLAPP due to intervening changes in the law, and denied Pandora's renewed attempt to end the case. Alternatively, the District Court ruled that the preemption defense likely did not apply to Flo & Eddie's claims, in part because the District Court believed that the MMA did not apply retroactively. Pandora promptly appealed the District Court's decision to the Ninth Circuit, and moved to stay appellate briefing pending the appeal of a related case against Sirius XM. On January 13, 2021, the Ninth Circuit issued an order granting the stay of appellate proceedings pending the resolution of a related case against Sirius XM.

On August 23, 2021, the United States Court of Appeals for the Ninth Circuit issued an Opinion in a related case *"Flo & Eddie Inc. v. Sirius XM Radio Inc.* The related case also concerned a class action suit brought by Flo & Eddie Inc. regarding the public performance of pre-1972 recordings under California law. Relying on California's copyright statute, Flo & Eddie argued that California law gave it the "exclusive ownership" of its pre-1972 songs, including the right of public performance. The Ninth Circuit reversed the District Court's grant of partial summary judgment to Flo & Eddie Inc. The Ninth Circuit held that the District Court in this related case erred in concluding that "exclusive ownership" under California's copyright statute included the right of public performance. The Ninth Circuit remanded the case for entry of judgment consistent with the terms of the parties' contingent settlement agreement, and on October 6, 2021, the parties to the related case stipulated to its dismissal with prejudice.

Following issuance of the Flo & Eddie Inc. v. Sirius XM Radio Inc. opinion, on September 3, 2021, the Ninth Circuit lifted the stay of appellate proceedings in Flo & Eddie, Inc. v. Pandora Media, LLC. The Flo & Eddie Inc. v. Sirius XM Radio Inc. decision is precedential in the Ninth Circuit, and therefore we believe substantially narrows the claims that Flo & Eddie may continue to assert against Pandora. We believe we have substantial defenses to the remaining claims asserted in this action, and we intend to defend this action vigorously.

Other Matters. In the ordinary course of business, we are a defendant in various other lawsuits and arbitration proceedings, including derivative actions; actions filed by subscribers, both on behalf of themselves and on a class action basis; former employees; parties to contracts or leases; and owners of patents, trademarks, copyrights or other intellectual property.

None of these other matters, in our opinion, is likely to have a material adverse effect on our business, financial condition or results of operations.

#### (17) Income Taxes

Current federal income tax expense or benefit represents the amounts expected to be reported on the Company's income tax return, and deferred income tax expense or benefits represents the change in net deferred tax assets and liabilities. Deferred tax assets and liabilities are determined based on the difference between the financial statement and tax bases of assets and liabilities as measured by the enacted income tax rates that will be in effect when these differences reverse. The current state income tax provision is primarily related to taxable income in certain states that have suspended or limited the ability to use net operating loss carryforwards or where net operating losses have been fully utilized. Income tax expense is the sum of current income tax plus the change in deferred tax assets and liabilities.

We have historically filed a consolidated federal income tax return for all of our wholly owned subsidiaries, including Sirius XM and Pandora. On February 1, 2021, we entered into a tax sharing agreement with Liberty Media governing the allocation of consolidated U.S. income tax liabilities and setting forth agreements with respect to other tax matters. The tax sharing agreement contains provisions that we believe are customary for tax sharing agreements between members of a consolidated group. On November 3, 2021, Liberty Media informed us that it beneficially owned over 80% of the outstanding shares of our common stock; as a result of this, we will now be included in the consolidated tax return of Liberty Media beginning November 4, 2021. The tax sharing agreement and our inclusion in Liberty Media's consolidated tax group is not expected to have any material adverse effect on us. We have calculated the provision for income taxes by using a separate return method.

Our current tax expense is the amount of tax payable on the basis of a hypothetical, current-year separate return. We provided deferred taxes on temporary differences and on any carryforwards that we could claim on our hypothetical return and assess the need for a valuation allowance on the basis of our projected separate return results. Any difference between the tax expense (or benefit) allocated to us under the separate return method and payments to be made for (or received from) Liberty Media for tax expense are treated as either dividends or capital contributions.

Income tax expense consisted of the following:

	For the Years Ended December 31,						
	 2021	2020	2019				
Current taxes:	 						
Federal	\$ (31) \$	_	\$				
State	(50)	(61)	(24)				
Total current taxes	(81)	(61)	(24)				
Deferred taxes:							
Federal	(210)	(219)	(229)				
State	79	(19)	(30)				
Total deferred taxes	 (131)	(238)	(259)				
Total income tax expense	\$ (212) \$	(299)	\$ (283)				

The following table presents a reconciliation of the U.S. federal statutory tax rate and our effective tax rate:

For the Years Ended December 31,				
2021	2020	2019		
21.0 %	21.0 %	21.0 %		
4.1 %	4.2 %	3.9 %		
1.5 %	0.7 %	0.3 %		
(4.7)%	(10.2)%	(2.7)%		
(1.0)%	(3.5)%	(2.4)%		
0.6 %	2.6 %	1.6 %		
—%	(3.5)%	—%		
— %	53.7 %	— %		
(0.1)%	4.4 %	— %		
(7.6)%	—%	— %		
0.1 %	0.1 %	1.9 %		
13.9 %	69.5 %	23.6 %		
	2021  21.0 %  4.1 %  1.5 %  (4.7)%  (1.0)%  0.6 %  - %  - %  (0.1)%  (7.6)%  0.1 %	2021         2020           21.0 %         21.0 %           4.1 %         4.2 %           1.5 %         0.7 %           (4.7)%         (10.2)%           (1.0)%         (3.5)%           0.6 %         2.6 %           - %         (3.5)%           - %         53.7 %           (0.1)%         4.4 %           (7.6)%         - %           0.1 %         0.1 %		

Our effective tax rate of 13.9% for the year ended December 31, 2021 was primarily impacted by settlements with various states as well as a benefit related to research and development and certain other credits, partially offset by federal and state income tax expense. Our effective tax rate of 69.5% for the year ended December 31, 2020 was primarily impacted by the nondeductible Pandora goodwill impairment charge, partially offset by the recognition of excess tax benefits related to share-based compensation, a benefit related to state and federal research and development and certain other credits and a worthless stock deduction associated with the termination of the Automatic service. Our effective tax rate of 23.6% for the year ended December 31, 2019 was primarily impacted by the recognition of excess tax benefits related to share-based compensation and benefits related to state and federal research and development and certain other credits, partially offset by the impact of nondeductible compensation.

Deferred income taxes are recognized for the tax consequences related to temporary differences between the carrying amount of assets and liabilities for financial reporting purposes and the amounts used for tax purposes at each year-end, based on enacted tax laws and statutory tax rates applicable to the periods in which the differences are expected to affect taxable income. The ultimate realization of deferred tax assets is dependent upon the generation of future taxable income during the periods in which those temporary differences can be carried forward under tax law. Our evaluation of the realizability of deferred tax assets considers both positive and negative evidence, including historical financial performance, scheduled reversal of deferred tax assets and liabilities, projected taxable income and tax planning strategies. The weight given to the potential effects of positive and negative evidence is based on the extent to which it can be objectively verified. A valuation allowance is recognized when, based on the weight of all available evidence, it is considered more likely than not that all, or some portion, of the deferred tax assets will not be realized.

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

	For	For the Years Ended December 31,			
	20	21	2020		
Deferred tax assets:					
Net operating loss carryforwards and tax credits	\$	681 \$	745		
Deferred revenue		52	62		
Accrued bonus		35	29		
Expensed costs capitalized for tax		9	11		
Investments		20	21		
Stock based compensation		57	74		
Operating lease liability		104	118		
Other		12	_		
Total deferred tax assets		970	1,060		
Deferred tax liabilities:					
Depreciation of property and equipment		(286)	(237)		
FCC license		(522)	(521)		
Other intangible assets		(263)	(292)		
Right of use asset		(89)	(106)		
Other		(5)	(5)		
Total deferred tax liabilities		(1,165)	(1,161)		
Net deferred tax assets before valuation allowance		(195)	(101)		
Valuation allowance		(83)	(54)		
Total net deferred tax (liability) asset	\$	(278) \$	(155)		

Net operating loss carryforwards and tax credits decreased as a result of the utilization of net operating losses related to current year taxable income. For the years ended December 31, 2021 and 2020, we recorded \$71 and \$44 for state and federal tax credits, respectively. As of December 31, 2021, our gross federal net operating loss carryforwards were approximately \$643. We expect to utilize a majority of our federal income tax credits, which consist of research and development tax credits, other tax credits and foreign tax credits, by December 31, 2022.

As of December 31, 2021 and 2020, we had a valuation allowance related to deferred tax assets of \$3 and \$54, respectively, which were not likely to be realized due to the timing of certain state net operating loss limitations. During the year ended December 31, 2021, our valuation allowance increased primarily as a result of the increase in net deferred tax asset related to prior net operating loss carryforwards as a result of settlements with various states. As a portion of these net operating losses are not anticipated to be realizable, we increased our valuation allowance for those expected to expire un-utilized based on taxable income projections.

ASC 740, *Income Taxes*, requires a company to first determine whether it is more likely than not that a tax position will be sustained based on its technical merits as of the reporting date, assuming that taxing authorities will examine the position and have full knowledge of all relevant information. A tax position that meets this more likely than not threshold is then measured and recognized at the largest amount of benefit that is greater than fifty percent likely to be realized upon effective settlement with a taxing authority. If the tax position is not more likely than not to be sustained, the gross amount of the unrecognized tax position will not be recorded in the financial statements but will be shown in tabular format within the uncertain income tax positions. Changes in recognition or measurement are reflected in the period in which the change in judgment occurs due to the following conditions: (1) the tax position is "more likely than not" to be sustained, (2) the tax position, amount, and/or timing is ultimately settled through negotiation or litigation, or (3) the statute of limitations for the tax position has expired. A number of years may elapse before an uncertain tax position is effectively settled or until there is a lapse in the applicable statute of limitations. We record interest and penalties related to uncertain tax positions in Income tax expense in our consolidated statements of comprehensive income.

As of December 31, 2021 and 2020, we had unrecognized tax benefits and uncertain tax positions of \$179 and \$433, respectively. If recognized, \$179 of unrecognized tax benefits would affect our effective tax rate. Uncertain tax positions are recognized in Other long-term liabilities which, as of December 31, 2021 and 2020, were \$35 and \$30, respectively, including accrued interest.

We have state income tax audits pending. We do not expect the ultimate outcome of these audits to have a material adverse effect on our financial position or results of operations. We also do not currently anticipate that our existing reserves related to uncertain tax positions as of December 31, 2021 will significantly increase or decrease during the year ending December 31, 2022. Various events could cause our current expectations to change. Should our position with respect to the majority of these uncertain tax positions be upheld, the effect would be recorded in our consolidated statements of comprehensive income as part of the income tax provision. We recorded interest expense of \$1 and \$6 for the years ended December 31, 2021 and 2020, respectively, related to unrecognized tax benefits.

Changes in our unrecognized tax benefits and uncertain tax positions from January 1 through December 31 are set forth below:

	2021	 2020
Balance, beginning of year	\$ 433	\$ 406
Increases in tax positions for prior years	9	14
Increases in tax positions for current year	13	20
Decreases in tax positions for prior years	(24)	(7)
Decreases related to settlement with taxing authorities	(252)	_
Balance, end of year	\$ 179	\$ 433

#### (18) Segments and Geographic Information

In accordance with FASB ASC Topic 280, Segment Reporting, we disaggregate our operations into two reportable segments: Sirius XM and Pandora. The financial results of these segments are utilized by the chief operating decision maker, who is our Chief Executive Officer, for evaluating segment performance and allocating resources. We report our segment information based on the "management" approach. The management approach designates the internal reporting used by management for making decisions and assessing performance as the source of our reportable segments. For additional information on our segments refer to Note 1.

Segment results include the revenues and cost of services which are directly attributable to each segment. There are no indirect revenues or costs incurred that are allocated to the segments. There are planned intersegment advertising campaigns which will be eliminated. We had less than \$1 of intersegment advertising revenue during the years ended December 31, 2021 and 2020.

Segment revenue and gross profit were as follows during the periods presented:

	For the Year Ended December 31, 2021							
		Sirius XM		Pandora		Total		
Revenue								
Subscriber revenue	\$	6,084	\$	530	\$	6,614		
Advertising revenue		188		1,542		1,730		
Equipment revenue		201		_		201		
Other revenue		151		_		151		
Total revenue		6,624		2,072		8,696		
Cost of services (a)		(2,594)		(1,329)		(3,923)		
Segment gross profit	\$	4,030	\$	743	\$	4,773		

The reconciliation between reportable segment gross profit to consolidated income before income tax is as follows:

	ne Year Ended nber 31, 2021
Segment Gross Profit	\$ 4,773
Subscriber acquisition costs	(325)
Sales and marketing (a)	(998)
Engineering, design and development (a)	(229)
General and administrative (a)	(451)
Depreciation and amortization	(533)
Share-based payment expense	(202)
Impairment, restructuring and acquisition costs	(20)
Total other (expense) income	 (489)
Consolidated income before income taxes	\$ 1,526

(a) Share-based payment expense of \$45 related to cost of services, \$58 related to sales and marketing, \$36 related to engineering, design and development and \$63 related to general and administrative has been excluded for the year ended December 31, 2021.

	For the Year Ended December 31, 2020							
		Sirius XM	Pandora		Total			
Revenue	<u></u>							
Subscriber revenue	\$	5,857	\$ 515	\$	6,372			
Advertising revenue		157	1,183		1,340			
Equipment revenue		173	_		173			
Other revenue		155	_		155			
Total revenue		6,342	1,698		8,040			
Cost of services (b)		(2,430)	(1,105)		(3,535)			
Segment gross profit	\$	3,912	\$ 593	\$	4,505			

The reconciliation between reportable segment gross profit to consolidated income before income tax is as follows:

	_	For the Year Ended December 31, 2020
Segment Gross Profit	\$	4,505
Subscriber acquisition costs		(362)
Sales and marketing (b)		(889)
Engineering, design and development (b)		(220)
General and administrative (b)		(443)
Depreciation and amortization		(506)
Share-based payment expense		(223)
Impairment, restructuring and acquisition costs		(1,004)
Total other (expense) income		(428)
Consolidated income before income taxes	\$	430

b) Share-based payment expense of \$44 related to cost of services, \$68 related to sales and marketing, \$43 related to engineering, design and development and \$68 related to general and administrative has been excluded for the year ended December 31, 2020.

For the Year Ended December 31, 2019 Sirius XM Total Pandora Revenue Subscriber revenue \$ 5,644 \$ 476 \$ 6,120 1,336 Advertising revenue 205 1,131 Equipment revenue 173 173 Other revenue 165 165 Total revenue 6,187 1,607 7,794 Cost of services (c) (2,378)(1,005)(3,383)3,809 4,411 602 Segment gross profit

The reconciliation between reportable segment gross profit to consolidated income before income tax is as follows:

	he Year Ended ember 31, 2019
Segment Gross Profit	\$ 4,411
Subscriber acquisition costs	(427)
Sales and marketing (c)	(859)
Engineering, design and development (c)	(231)
General and administrative (c)	(466)
Depreciation and amortization	(468)
Share-based payment expense	(229)
Impairment, restructuring and acquisition costs	(84)
Total other (expense) income	 (450)
Consolidated income before income taxes	\$ 1,197

(c) Share-based payment expense of \$44 related to cost of services, \$78 related to sales and marketing, \$49 related to engineering, design and development and \$58 related to general and administrative has been excluded for the year ended December 31, 2019.

A measure of segment assets is not currently provided to the Chief Executive Officer and has therefore not been provided.

As of December 31, 2021, long-lived assets were predominantly located in the United States. No individual foreign country represented a material portion of our consolidated revenue during the year ended December 31, 2021.

#### (19) Subsequent Events

Capital Return Program

For the period from January 1, 2022 to January 28, 2022, we repurchased 19 shares of our common stock on the open market for an aggregate purchase price of \$16, including fees and commissions.

On January 26, 2022, our board of directors declared a quarterly dividend on our common stock in the amount of \$0.0219615 per share of common stock payable on February 25, 2022 to stockholders of record as of the close of business on February 11, 2022.

On January 31, 2022, our board of directors declared a special cash dividend on our common stock in the amount of **6**.25 per share of common stock payable on February 25, 2022 to stockholders of record as of the close of business on February 11, 2022.

### SIRIUS XM HOLDINGS INC. AND SUBSIDIARIES Schedule II - Schedule of Valuation and Qualifying Accounts

(in millions)

(in militaria)						
<u>Description</u>			Charged to Expenses	Write-offs/ Payments/ Other	1	Balance December 31,
2021						
Allowance for doubtful accounts	\$	15	53	(58)	\$	10
Deferred tax assets—valuation allowance	\$	54	29	_	\$	83
2020						
Allowance for doubtful accounts	\$	14	60	(59)	\$	15
Deferred tax assets—valuation allowance	\$	70	3	(19)	\$	54
2019						
Allowance for doubtful accounts	\$	7	53	(46)	\$	14
Deferred tax assets—valuation allowance	\$	66	4	_	\$	70

#### SIRIUS XM HOLDINGS INC. SUBSIDIARIES

Sirius XM Radio Inc.

Automatic Labs Inc.
Satellite CD Radio LLC
Sirius XM Connected Vehicle Services Inc.
Sirius XM Connected Vehicle Services Holdings Inc.
SXM CVS Canada Inc.
XM 1500 Eckington LLC
XM Emall Inc.
XM Investment LLC
XM Radio LLC
Pandora Media, LLC
AdsWizz Inc.
Stitcher Media LLC

Audios Ventures Inc. (dba Simplecast)

#### Consent of Independent Registered Public Accounting Firm

We consent to the incorporation by reference in the registration statements (No. 333-229468, 333-228088, 333-152574, 333-159206, 333-160386, 333-179600, 333-204302, and 333-205409) on Form S-8 of our reports dated February 1, 2022, with respect to the consolidated financial statements and financial statement schedule II of Sirius XM Holdings Inc. and subsidiaries and the effectiveness of internal control over financial reporting.

/s/ KPMG LLP

New York, New York February 1, 2022

#### CERTIFICATION OF CHIEF EXECUTIVE OFFICER

#### I, Jennifer C. Witz, certify that:

- 1. I have reviewed this Annual Report on Form 10-K for the fiscal year ended December 31, 2021 of Sirius XM Holdings Inc.;
- 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
  - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
  - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
  - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- 5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
  - (a) all significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
  - (b) any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

By: /s/ JENNIFER C. WITZ

Jennifer C. Witz Chief Executive Officer and Director (Principal Executive Officer)

#### CERTIFICATION OF CHIEF FINANCIAL OFFICER

#### I, Sean S. Sullivan, certify that:

- 1. I have reviewed this Annual Report on Form 10-K for the fiscal year ended December 31, 2021 of Sirius XM Holdings Inc.;
- 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
  - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
  - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
  - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- 5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
  - (a) all significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
  - (b) any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

By: /s/ SEAN S. SULLIVAN

Sean S. Sullivan Executive Vice President and Chief Financial Officer (Principal Financial Officer)

# CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

In connection with the Annual Report of Sirius XM Holdings Inc. (the "Company") on Form 10-K for the fiscal year ended December 31, 2021 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, Jennifer C. Witz, Chief Executive Officer of the Company, certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that:

- (1) The Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

By: /s/ JENNIFER C. WITZ

Jennifer C. Witz Chief Executive Officer and Director (Principal Executive Officer)

February 1, 2022

A signed original of this written statement required by Section 906, or other document authenticating, acknowledging, or otherwise adopting the signature that appears in typed form within the electronic version of this written statement required by Section 906, has been provided to the Company and will be retained by the Company and furnished to the Securities and Exchange Commission or its staff upon request.

# CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

In connection with the Annual Report of Sirius XM Holdings Inc. (the "Company") on Form 10-K for the fiscal year ended December 31, 2021 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, Sean S. Sullivan, Executive Vice President and Chief Financial Officer of the Company, certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that:

- (1) The Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

By: /s/ SEAN S. SULLIVAN

Sean S. Sullivan Executive Vice President and Chief Financial Officer (Principal Financial Officer)

February 1, 2022

A signed original of this written statement required by Section 906, or other document authenticating, acknowledging, or otherwise adopting the signature that appears in typed form within the electronic version of this written statement required by Section 906, has been provided to the Company and will be retained by the Company and furnished to the Securities and Exchange Commission or its staff upon request.