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Dealing with Digital: Economic Organisation of Streamed Music

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Dealing with Digital. Economic Organisation of Streamed Music*

Ruth Towse

Abstract

The intervention of digital service providers (DSPs) or platforms such as Spotify, AppleMusic and Tidal supplying music streamed music has fundamentally altered the way that song-writers and recording artists are paid and the operation of copyright management organisations (CMOs). Platform economics has emerged from the economic analysis of two- and multi-sided markets, offering new insights into the way business is conducted in the digital sphere and is applied here to music streaming services. The business model for music streaming differs from previous arrangements by which the royalty paid to song-writers and performers was a percentage of sales. In the case of streamed music payment is based on revenues from both subscriptions and ad-based free services. The DSP agrees a rate per stream with the various rights holders that varies according to the deal made with each of the major record labels, with CMOs, with representatives of independent labels and with unsigned artists and songwriters with consequences for artists' earnings. The article discusses these various strands that contribute to understanding royalty payments for streamed music in terms of platform economics, with some data and information from the Norwegian music industry giving empirical support to the analysis.

Streamed music has challenged the established economic organisation of the music industry. For listeners it has made consuming music trivially simple but for those who supply music, the chain of production from its composition and performance through to the digital service provider (DSP) or platform from which listeners obtain their music, has become complex and has distorted payment to those who produce it. The production process starts with contracts between song-writers (and other composers) and music publishers and between performers and record labels that deal with the rights accorded them by copyright law and ends with platforms that stream music direct to the consumer for a subscription fee or for free financed by advertisers. This article traces the economic aspects of the various stages of production.

Digital distribution of sound recordings via platforms has broken the established royalty deals based on sales as streaming has become an increasingly dominant mode of access to music: it now constitutes over half of music industry revenues in major markets. Platforms (DSPs), which take little part (at least so far) in the business of writing, performing, recording and

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marketing music, some of which do not even specialise in music as part of their wider business interests, are hosting music streaming services with business models that differ fundamentally from the sales model of CDs and DVDs, with resulting consequences for the earnings of the creators and performers in the music industry and for rights management by copyright management organisations (CMOs). Moreover, the DSPs have different incentives from those of the music industry and adopt different business models –platform pricing – which have far-reaching implications for the streaming rates paid to song-writers and performers. This article analyses the supply side of streaming through the lens of platform economics and the attendant business models and considers those consequences for payments to artists, using the Norwegian music industry as a case study.

Economic organisation and the music industry

Contemporary industrial economics identifies the production and distribution of goods and services in terms of a stream of uses of inputs that lead eventually to the output: upstream activities in which the content is produced or created and downstream activities as those which prepare the product for the market and distribute it. Each stage in the process requires sequential contracts between the entrepreneurs involved and, in order to avoid hold-ups that could disrupt the production process and lead to losses downstream, they may buy up residual rights of upstream producers. Contract theory is now widely adopted in cultural economics to explain the structure of the creative industries in these terms along with the trade-off of transaction costs inherent in drafting and enforcing contracts (for example, Caves, 2000; Towse, 2019).

It is obvious from this description that the music industry fits comfortably within this framework – upstream musical composition leads on downstream to its performance (live or in recording) on to the consumer and then to other users in the secondary markets, such as

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those playing recorded music in public places. As an intangible information good, music has strong public goods characteristics of non-rivalry and non-exclusivity.¹ While the distribution of music embodied in physical goods (printed music and CDs) may be controlled by the seller, intangible goods require intervention in the market to control misappropriation by non-payers (piracy), the role which copyright plays in providing statutory protection and an economic incentive to content creation. Copyright law confers various rights to protect musical works by upstream creators (song writers) and further downstream, protects rights in performers' performances and in sound recordings.² In order for creators and performers to reach the market, contracts are made with downstream producers in the music industry for the right to use copyright works in production and distribution. The deal behind those contracts has implications for the party that controls usage, such as streaming. Which rights creators and performers trade or retain upstream have downstream consequences for their subsequent earnings from use of their works. It is these processes in relation to music streaming that are dealt with in this article.

The role of copyright

Songwriters may well be seen in economic terms as upstream entrepreneurs: they invest their time, talent and human capital in creating a work which, *if* successfully exploited and *if* successful on the market, would eventually lead to payment based on that success, depending on the contract with downstream users (often in the first place a publisher). Contracts are complex so as to cope with every potential use, though they are never complete (see Caves, 2000). The type of contract determines which party has decision rights over the use of their work, including streaming. Publishing contracts for music and lyrics take various forms

¹ The world of intangible production is characterised in terms of its ability to internalise synergies and spillovers, as well as scalability (increasing returns to scale). See Haskell and Westlake (2018).

² For full details of these rights in music, see Going for a Song, a short comic-format video which also provides carefully prepared information on musical rights and how they are managed

www.copyrightuser.org/create/creative-process/going-for-a-song/ Accessed 06/12/19.

ranging from an administration deal (in which the author retains the copyright while licensing reproduction and other such rights), a single song assignment (the publisher obtains the rights in exchange for an agreed royalty) or an exclusive publishing agreement, which may cover a specific number of songs over a period of time and require the assignment of all rights to each song (Harrison, 2011; Towse, 2017). Where there is an assignment of rights, the publisher would typically pay an advance to be recouped from future royalties (and which is not repayable by the author if royalties are insufficient). With rights assigned to the publisher, the song writer's royalties from streaming depend on the arrangement made by the publisher with the DSP (Digital Service Provider) via the CMOs (Copyright Management Organisations or collecting societies) that licence mechanical and performing rights.

For the last hundred years or so CMOs have acted on behalf of their members to collect and distribute copyright royalty and other statutory payments, making deals on rates with user organisations and enforcing them, including when necessary in court. The CMO negotiates rates for use of copyright material in secondary markets, for example, broadcasting. Revenues from streaming due to songwriters and are distributed by the appropriate CMO, which holds details of the mandated share to the revenue handed over to them by the streaming service in accordance with the agreement.

Music mostly requires performance to elicit payment and music publishers (and independent songwriters without a publishing contract) deal with record labels and producers of live performances to promote the work of their clients.³ Others, such as music managers and record producers, involved in the initial production and also have a share of revenues but they are ignored here for want of space – but see Riches (2017) for a detailed exposition. The publishing contract enables the publisher to negotiate the deal with a record label and to

³ Many song-writers are also performers performing their own songs; it is important, however, to distinguish the two activities and the rights differ and are managed by different CMOs.

arrange for the song to be registered with a CMO for administering the performing rights (usually shared 50:50 between publisher and song writer(s) and the mechanical rights. There may be several, even many, persons involved who may or may not have a formal contract allocating their share of royalties between them, leading to later disputes. Performers have rights in their performances: in the recording contract with the record label, they mostly sign away all rights in a royalty deal, often with an advance to cover costs of making the recording. The record label argues it is necessary in order to fully exploit the recording and thus is the party that deals with the DSP.

By the end of this process (which is only briefly sketched here), songwriters, performers, publishers and record labels have shares as agreed in their respective contracts of the value created by the various uses of the recording, including streaming. Pre-streaming contracts and reportedly many post-streaming contracts do not make formal provision for the division of streaming royalties, however.

Platform economics and streaming services

Platform economics is a term used in industrial economics to analyse activities of enterprises that distribute products online, such as streamed music. A platform coordinates distinct groups of participants in two or more markets by offering a virtual 'marketplace' on which they can trade. The term platform economics has become established for the analysis of the various types of enterprises, mostly online intermediaries, which act as distribution channels for goods and services produced by others (that is, production and distribution are split up, often a key feature in the digital economy). Online business models are enabled by the freedom from engagement in production on the one hand and, on the other hand, are empowered by the vast amounts of data that are harvested from consumers' online behaviour involved in all kinds of activities, not just those relating to the purchase of music – so-called datafication (Ezrachi and Stucke, 2016).

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Crucial to these business models are network effects. Network effects arise on platforms in two ways: direct effects within a group of users (producers or consumers) when users benefit from the number of users on their side of the market; and indirect cross-group effects when users benefit from the number on the other side of the market, for instance, advertisers benefit from the number of viewers. In fact, the analysis of platforms has caused economists to recognise some older enterprises - credit card companies, dating agencies and some kinds of department stores - as platforms, along with commercial broadcasters and newspapers which have long been regarded as operating two-sided markets. The aim of the platform is to set prices so as to maximise its profits over all its activities, causing the price on one side to depend on the price(s) on the other side(s).

Streaming services are platforms; they acquire rights from record labels to distribute recorded music online or to mobile devices, which they make available to consumers (listeners) either by selling a subscription (the price for time limited rental) or providing it for free to listeners via an ad-based service financed by the sale of time-based slots to advertisers on the other side of the market. A DSP for which streaming music is its sole activity, for instance, Spotify, is a two-sided market with prices on one side for listeners and those on the other side for advertisers. Other DSPs, such as Apple Music, are multi-sided platforms supplying several types of services, for each of which there is a price. A question addressed later is whether competition between music streaming services is affected by the structure of the DSP market - two-sided versus multi-sided platforms.

A platform also creates network effects by offering its own additional services, for example, ratings and recommendations systems to steer consumers towards complementary goods and hosting applications created by others.⁴ These activities generate data that are commercially

⁴ See Belleflamme and Peitz <u>www.ipdigit.eu/2018/10/reviews-ratings-and-recommendations-the-3-rs-that-</u> <u>make-digital-platforms-engine-roar/</u>, accessed 04/12/19. Bourreau and Gaudin (2018) have shown that the use

valuable to the platform; for example, Netflix has used data on audience preferences to predict the success of certain film and TV programme genres and applied the information in the production of its own products, a route that could be taken by music streaming services in the future. Data acquired on one platform is also valuable to other enterprises, to which platforms may sell their data.⁵

Platform pricing

DSPs offer consumers a choice between streamed music free at the point of use, financed by advertisements, or ad-free subscriptions for a specified period. Platforms set prices on the different sides of the market according to users' willingness to pay: with a monopolistic position, it can price discriminate, including supplying some services for free, taking advantage of consumers' differing valuations and responsiveness to price, while marginal costs of supplying any number of consumers are effectively zero. Platforms are able to estimate an individual's willingness to pay based on data it acquires from users' previous sales or the profile of their characteristics (gender, age, interests and the rest) obtained from their own or other data sources. Perfect (first degree) price discrimination, which elicits the maximum revenues from consumers, is possible as well as dynamic pricing sensitive to the interaction between supply and demand, using AI (Artificial Intelligence) settings, now widely used by platforms. As a degree of monopoly is needed for price discrimination to work, it attracts the attention of competition authorities, though dynamic pricing may be covert and evade scrutiny.⁶

Single and multi-homing

of a recommendation system that steers listeners towards lower-priced content enables the platform to reduce its royalty payments to copyright holders.

⁵ See Ezrachi and Stucke (2016) for many examples and the implications for competition (or rather lack of it).

⁶ See Ezrachi and Stucke (2016) for details of the use of AI (Artificial Intelligence) for dynamic pricing.

A 'natural' brake on the market power of a DSP is provided by consumers' choice to use more than one platform; opting for a single 'home' reduces search and other transaction costs but opens them up to potential exploitation from a monopoly, while 'multi-homing' incurs higher costs of time and attention but increases choice and may reduce the prices they pay (Belleflamme and Peitz, 2019). Platforms try to capture ('lock-in') consumers through subscriptions that last a fixed period of time but they also offer free trials to entice them away from competitors. The type of streaming agreements, for example, for families and free introductory offers influence the amounts paid to song-writers and performers.

Competition between streaming platforms

Platforms compete through pricing and non-price means. As the price on one side of the platform influences demand on both sides through cross-group network effects, the platform may run one side at a loss in order to compete with its rivals on a particular market (though that may be illegal in some jurisdictions). By attracting consumers to the loss-leading side through very low prices, the platform makes its service valuable for the other (profit-making) sides and ensures their participation (Bourreau and Bacache, 2020). This suggests that multi-sided platforms have a competitive edge over two-sided platforms as they can support greater losses on the loss-making side. Thus Apple Music (part of a multi-sided DSP) has caught up with Spotify (a two-sided DSP) in the USA.⁷

The analysis presented here provides the background for applying economics to music streaming with the emphasis on the generation and distribution of revenues to song-writers and performers. In the streaming market, the upstream price is negotiated by the DSP for the rights to stream the music and the downstream price is a subscription fee (or zero price for

⁷ www.digitaltrends.com/music/apple-music-vs-spotify/ Accessed 04/12/19.

ad-based users of the service) and for ad-based services, the price charged to the advertiser. It is an obvious application of platform economics.

DSPs, competition and pricing of streamed music services

Streamed music is supplied directly to end users by competing DSPs. They compete by the range of additional services they offer in addition to the catalogue (non-price competition) but do not compete in terms of price, that is, the subscription fee to consumers. Catalogue sizes and genre range vary between platforms but as the major record labels have made non-exclusive deals with streaming platforms, they each offer a very similar portfolio. (Tidal Premium is an exception here as it offers some exclusive catalogue). Differences arise particularly in relation to indie catalogues and other non-economic features: for instance, one would expect, for instance, Norway to have different catalogue preferences based in language and, of course, adverts would specifically target Norwegian consumers.

DSPs contract with the major record companies (Universal Music, Sony and Warner Music) and with bodies representing independent labels for licences to stream music. Payment is made to the record label which in turn distributes it to contracted performers, in principle in accordance with their contracts. The DSPs provide some (but reportedly inadequate) data on usage and there is controversy over the amount and manner of these distributions over and above the issue of the streaming rates paid.⁸

Subscription fees for consumers

⁸ See, for example, the Eminem case: <u>www.theverge.com/2019/8/21/20827358/eminem-eight-mile-style-suing-spotify-lawsut-copyright-infringement-lose-yourself</u>. Accessed 01/012/19.

Starting at the downstream end, Table 1 in the Appendix shows monthly subscription rates to individual users of leading DSPs and the number of subscribers to the leading music streaming services. There is almost no price competition for individual subscription rates.

User numbers have been growing for all except Tidal: Apple Music had just overtaken Spotify in the US in terms of the number of subscribers at the time of writing. While subscriptions may grow, though, their rate of growth is slowing down. Some countries, especially those in Scandinavia, have a very high percentage of paid subscriptions as a proportion of total revenue by international standards so there is a question of how much further growth is possible: is the paid subscription market saturated? If so, the only means of increasing upstream payments would be to raise subscription fees and/or advertising rates.⁹ Given the competition between streaming services, some two-sided and others multi-sided platforms, it not a simple equation. A DSP raising the subscription charge could cause consumers to switch to another service thus lowering revenue; that would then have to be made up by more revenue from advertisers, since advertising revenue 'cross subsidises' subscribers. If subscribers switch to an ad-funded streaming service, however, advertisers would switch too as they seek more listeners to their ads. It is becoming evident that twosided platforms that specialise in one product, as Spotify does in music, are in a relatively weaker competitive position in the streaming market in relation to multi-sided platforms which can cross-subsidise music streaming with revenues from other products and sources. These issues have implications for song-writers' and artists' earnings and are the manifestation of platform economics.

Streaming rates to record labels

⁹ According to Digital Music, subscription rates, in particular the family rate, was due to increase by 13 per cent www.digitalmusicnews.com/2019/08/15/spotify-price-hike. Accessed 01/012/19.

Moving upstream, Table 2 shows the considerable variation in the rates payable to the major record labels streaming service market in the USA in 2019, as reported by *Digital Music News*.¹⁰ The report also provides data on changes within each year, showing that this is not a stable market in terms of pricing. Indeed, several of the music streaming services reported losses: Spotify, for instance, has so far not made a profit. As argued above, those which are part of multi-sided platforms, such as Apple Music and Amazon, may have more secure 'internal' finance and accordingly be able to offer higher rates to record labels. They benefit from both direct and indirect network effects as well as from scalability and synergies and economies of scope. On the last point, at the time of writing, Apple was negotiating with the record labels with the aim of offering a combined Video and Music service.

Advertising rates

The other upstream element in a two-sided market is the rate paid by advertisers. On Spotify's Premium ad-based services advertisements last up to 30 seconds and are played every 15 minutes between songs; there are options for branded and sponsored playlists with logos and scrolling through to the advertiser's site. The minimum charge is \$25,000 per campaign, with cost per minute ranging from \$5–\$30, and a service for small businesses; for individual adverts using the Spotify Ad Studio, the minimum Spotify advertising budget is \$250.¹¹ Income from advertising forms part of the pot from which payment is made to artists.

Streaming rates and artists

Taking all this as a whole, the above data provide a basis from which to discuss the important question of how and how much song-writers and performers earn from streaming. Table 4 is based on an interesting calculation made by *Digital Music News* of the total plays needed to

¹⁰ www.digitalmusicnews.com/2018/12/25/streaming-music-services-pay-2019/. Accessed 01/012/19.

¹¹ <u>https://powerdigitalmarketing.com/blog/how-to-advertise-on-spotify/.</u> Accessed 04/12/19.

earn the US Minimum Monthly Wage in 2019. It cannot make encouraging reading for the majority of recording artists. By contrast, *Digital News* reported that in 2017 the 'big three' – Universal, Sony and Warner - made an estimated \$14.2 million a day from streaming services like Spotify and Apple Music with the Universal Music Group alone making \$4.5 million each day.¹²

Streaming revenue depends both sides of the market: whether the service was financed by subscription or by advertisers. It is also influenced by other factors such as variations in currency rates in the consumer's domicile and copyright law. How much is passed on to song-writers and recording artists, however, depends on the type of contract and the royalty rate they have agreed with the publisher and/or the record label and whether payment is managed by the CMOs or dealt with individually.

Streaming and copyright

Recent changes to copyright law have not been helpful, though the changes made to deal with online activity were supposed to favour performers. The so-called Internet Treaties established by the World Intellectual Property Organisation (WIPO) the WIPO Copyright Treaty (WCT) and the WIPO Performers and Phonograms Treaty (WPPT), which have been adopted throughout Europe and elsewhere, mandated the so-called 'making available' right for authors and performers respectively, which relates to any use for which the consumer can choose the time of access as with streamed music. Apart from the issue whether publishing and performers' contracts explicitly include this right, there is disquiet its efficacy. The right is an individual one and, though mostly contracted to a publisher or record label, it may be exercised independently, usually via a CMO or other monitoring agent. A bone of contention

¹² www.digitalmusicnews.com/2017/07/24/what-streaming-music-services-pay-updated-for-2017/. Some analogous data is provided by PRS for the UK for different outlets – see www.openmicuk.co.uk/advice/why-singers-should-join-the-prs-performing-rights-society/. Both accessed 04/12/19.

is whether or not it exempts labels from performer equitable remuneration for streamed music, potentially reducing performers' income from that source.

Implications for the regulation of CMOs in the music industry

CMOs act on behalf of rights holders to set royalty rates for usage and to collect and enforce payments by users. In most countries, they are regulated in one way or another by the state due to their monopoly power: in some (for example, in the USA and Canada), there are Copyright Courts or Boards that set rates for specific uses; other arrangements involve the Ministry of Justice or a Copyright Tribunal to which cases may be referred. Platform economics is making the operation of these regulators more complex as it is not simply the rate charged to the user or the administration charge that has to be taken into account but more complex pricing in two-and multi-sided markets.¹³

The rights relevant to streaming are the mechanical and performing rights of the song-writer and the making available right and the performance right of the performer. Music streaming services therefore require licences for two sets of rights mandated by copyright law: from the song-writer for the mechanical rights for reproduction and distribution of a recorded track of copyright music and the performing right for its public performance on the one hand, and from the performer for the right to use their performance on the other. For contracted songwriters, the publisher and the songwriter share the performing right royalty; otherwise the unsigned song-writer gets the whole payment (minus the administrative charge of the CMO).

¹³ One might ask whether the CMOs are themselves platforms. A CMO bundles together a specific right or group of rights to many works by many authors and sets prices with the many diverse users. It then distributes its net revenues to its members. As rights are assigned to the CMO, it obtains the exclusive mandate to act on behalf of the right owner and therefore may be seen as a reseller platform. Not all CMOs require assignment of rights or exclusivity, though, and moreover, streaming and adjustments to copyright law (such as the making available right) have disrupted established operations of CMOs. Thus, as has been argued in the economics literature, the assignation of 'platform' to CMOs has to depend on the institutional arrangements and attendant business model.

(In addition, a synchronisation licence is also needed for music in a video; synch rights payments are not considered here, however). Performers get the percentage agreed with record label and possibly also remuneration for public performance; that, however, is disputed in relation to the making available right.

The outcome is that there is competition for the 'digital dollar' between the various rights holders and their representatives, as noted in a recent US Copyright Board decision in relation to the appeal by Spotify.¹⁴

How the money reaches the artist

How does the money from streaming reach the artist? Few artists, if any, have individuallytailored deals with the streaming service – transaction costs would be too high. Instead there is a structure of deals and arrangements that eventually transfer the monies collected from plays on streaming services to the creators, which differs as between song-writers, signed and unsigned performers and backing performers.

Song-writers

Song-writers initially own all rights in the copyright of their works: not all songs are published but for those that are, the song-writer may opt for one of several types of publishing contracts, ranging from full assignment of all rights of a bundle of works for a period of time (often the full copyright term) to a non-exclusive administration contract for one or more songs. Of course, many songs are written by those who perform them and that could mean that the copyright in them is handled by the record label in a so-called 360 degree

¹⁴ See <u>www.publicknowledge.org/news-blog/blogs/spotifys-copyright-royalty-board-appeal-decoded</u>. In the USA, the Copyright Royalty Board sets the rates for mechanical licences. Accessed 05/12/19.

contract (that also includes live performance fees, sales of any memorabilia, branded goods and so on). There are specific organisations dealing with digital publishing rights, for example, IMPEL (Independent Music Publishers' E-Licensing) Collective Management Ltd is the collective licensing agency representing digital publishing rights; it is owned and controlled by its independent publisher members.

Whichever contractual arrangement is made, when a song is recorded the record label contracts with the publisher or with the song-writer for permission to record and distribute it. The publisher or song-writer joins the performing rights CMO for the public performance of the song (live or recorded) and the mechanical rights CMO for the relevant jurisdiction (for instance, location of residence). Evidence on songwriters' earnings from streaming, are hard to come by, however. Some performing rights CMOs make data available on the distribution of their revenues according to various income brackets; those data in the past have shown that more than half the membership fails to earn the minimum amount eligible for distribution (seeTowse, 2017: 2019).

Signed recording artists

For 'signed' performers, the contract is likely to transfer all rights to the label in exchange for a percentage royalty payment. The record label therefore holds the rights and makes the deal with the streaming service. The artist is then paid according to the contract that is made with the label. That contract may or may not specify the share (if any) of the streaming revenue due to the artist(s). This is one of the 'transparency' issues the EU has emphasized in this context.¹⁵

¹⁵ See the article by Richard Osborne on

www.academia.edu/39795776/One Directive Equitable Remuneration and the Making Available Right. Accessed on 06/12/19.

Deals between DSPs and the majors are made individually and with Merlin, the global digital rights collection agency for the independent label sector. In 2019, Merlin paid over \$2bn to its members, who represent thousands of independent labels and distributors; it licensed more than 25 DSPs on a global basis. In 2019, 54 per cent of Merlin members reported that digital income accounted for more than 75 per cent of their overall business revenues.¹⁶

Unsigned artists

Independent artists offer their recordings on their own websites and via YouTube, Spotify for Artists, Apple Music of Artists, Google Play or a range of other hosts: some pay directly and some don't pay at all. Spotify for Artists has an artist verification scheme, which operates via their preferred artist distributors.¹⁷ Spotify for Artists takes 30 per cent of revenue and distributes the remaining 70 per cent as royalties to the publishers, who then pay artists according to their agreements.¹⁸

Backing performers

Little has changed with streaming for backing artists (sessions musicians) as they typically work for a flat fee that buys out the rights in their performances. In the EU, they now have the right to further payment fifty years after the publication of a sound recording: session musicians are entitled to an equal share of 20 per cent of gross revenues from physical and

¹⁶ www.merlinnetwork.org/news/post/merlin-reveals-record-revenue-distributions-in-new-2019-membershipreport. Accessed 06/12/19.

¹⁷ https://artists.spotify.com/faq/popular#how-do-i-submit-music-to-your-editorial-team. Accessed 06/12/19.

¹⁸ www.openmicuk.co.uk/advice/how-to-make-money-in-the-music-industry/. Accessed 06/12/19.

online sales of the recording via the performers' rights CMO. The legislation states that a musician cannot waive the right to this income.¹⁹

Overall, the growth of streaming has raised the question whether it has increased revenues for song-writers, music publishers, performers and record labels or simply replaced one source of revenue with another, so-called 'cannibalisation'. A paper by Waldfogel and Aguiar (2015) using Spotify data for 2013-15 found that Spotify use had displaced downloads and sales but, on the other hand, it had to an extent stemmed piracy, such that overall losses of revenue from sales were roughly outweighed by new income from streaming (see also Waldfogel, 2018).

Streaming and the CMOs

In the music industry with its complex web of copyright provisions, several CMOs operate in national territories, one for composers and song-writers, one for record producers (labels) and, more recently, also for musical performers. One of the traditional roles for the CMO is to negotiate rates for use of copyright material in the secondary market and collect revenues from usage. Revenues from streaming due to songwriters and signed artists are distributed by the CMO, which holds details of the mandated share to the revenue handed over to them by the streaming service in accordance with the agreement, as indeed, it does for equitable remuneration payments.

Streaming does not easily fit with the traditional blanket licence business model of the CMOs in music, whereby the CMO negotiates fees and arranges licensing with a host of varied users from broadcasters to hairdressers and distributes the revenues to members at the same rate

¹⁹ See www.musiciansunion.org.uk/Home/Advice/Recording-Broadcasting/Copyright-and-Performers-Rights-FAQs. Accessed 06/12/19.

according to the quantitative use made of their work. For uses such as TV and radio, for example, CMOs have blanket licence contracts and standardized rates with TV and radio stations; in the UK, in fact, the BBC continues to work that way with the PRS (Performing Right Society) and PPL (Phonographic Performance Ltd) for digital usage.

One of the main challenges of collecting income from myriad uses of streamed music is the huge numbers of transactions that have to be dealt with. Streamed music requires different administration (for example, for individual and direct licensing) within a territory and also for multi-territorial cross-border licensing, and business models of advertiser-financed services pose further challenges. CMOs have had to invest in new data management systems to cope with these changes and be able to collect and distribute revenues more quickly and accurately. Moreover, national CMOs in the EU have been directed by its 'Collecting Society Directive' to offer digital management services of equal standard throughout the EU, requiring those that cannot do so to make arrangements with a CMO that can; this has introduced a measure of competition into an arena in which non-profit membership organisations operated collectively and in which there was previously collaboration rather than competition.²⁰

One has argued that the requirements of the Collecting Society Directive necessarily favour the larger CMOs, that is, those that can invest most in data systems are able to produce the highest standard of service and, as CMOs are in economic terms natural monopolies, there is an underlying tendency for the bigger ones to dominate the 'market' for digital musical rights management services (Towse, 2012, 2013). The reason is that the greater the number of titles and the more members there are over which the fixed (sunk) costs of a very large investment

²⁰ Directive 2014/26 EU on Collective Management of Copyright and Related Rights and Multi-Territorial Licensing of Rights in Musical Works for Online Use in the Internal Market. For a commentary on the Directive see <u>http://eprints.bournemouth.ac.uk/30489/1/Lodder%2C%20Murray-Regulation_of_E-commerce_15_Chapter10%20Mendis.pdf</u> accessed 04/12/19. There are other challenges, such as the trade-off between efficiency of distribution versus equity within the CMO, dealt with in detail by Page and Safir (2018).

in computer capability can be spread (scalability), the lower are the administrative costs charged to right holders and therefore the more competitive is the larger CMO (or combinations of national CMOs). As a result, those wealthy enough to make the investment are likely to attract more members and mandates and, as a consequence, spread fixed costs even further. As members upload their own data, more members may be added at almost no extra (marginal) cost. The bigger the CMO, the bigger it will become – the logic of the intangible world (Haskel and Westlake, 2016; Ezrachi and Stucke (2016). The UK's PRS for Music is one of the larger music CMOs in Europe and is part of the ICE formed with the Swedish and German performing rights CMOs, STIM and GEMA.²¹ In the digital world in which scale and scope matters it is difficult for smaller national CMOs to compete. Overall, the question that concerns the music industry is whether subscription services are able to grow replacing 'free' or freemium services. That is a significant matter for the Norwegian music industry in which streaming takes a significant role (see below).

Another source of concern about streaming is that user upload content (UUC) services such as YouTube, which have large advertising revenues, pay only a tiny fraction to creators and significantly less than other streaming services as Spotify and Apple Music (see Tables 2 and 3). The differential (often referred to as the 'value gap') impedes competition, putting Spotify and Apple Music at a disadvantage in the market as they have to charge more (Liebowitz, 2018). Usage figures bear out this point for Norway (Polaris, 2018).

Does streaming need CMOs?

²¹See <u>www.prsformusic.com/what-we-do/who-we-work-with/ice</u>, accessed 04/12/19. PRS for Music processed 6.6 trillion uses in 2017; in 2019 it licensed 25 million works on behalf of its 140,000 UK members who assign their rights to it with an administrative charge of 12.5 per cent. Its revenue was £1 billion in 2019, with International representing 36%, Public Performance 28%, Broadcast 19% and Online, 17%. Online had grown by 53 percent since 2016. The CISAC *2018 Global Collections Report* showed that in 2017 digital collections accounted for a mere 2.4 per cent worldwide, which, however, had more than doubled over the previous year - see <u>www.cisac.org</u>, all accessed 04/12/19.

CMOs are typically monopolies for the specific rights they administer; in economic terms they are natural monopolies (as are most network industries, in which competition is less efficient due to higher unit costs) and as such are subject to regulation by the state (Tirole, 2016). As noted earlier, they traditionally required assignment of rights. Enabled by digital collection of data and the use of artificial intelligence (AI) to analyse it (Big Data and Big Analytics), other agents have entered this market, notably Kobalt, which acts on behalf of the songwriter to monitor the use of their music and distribute the payment without requiring any assignment of rights. They offer only digital services and so do not have to have the wider administrative apparatus of the long established CMOs which includes some uses (for example, live concerts) that have much higher administration costs. Established CMOs therefore face cream-skimming from new entrants dealing only with streamed music, a topic that merits further research.

Data profile of streaming the Norwegian music industry

The Norwegian music industry offers an interesting case study of the economics of streaming. Norway (population 5.4 million) is one of the wealthiest countries worldwide, which is reflected in the prices for goods and services. It has very high internet coverage with very high levels of daily usage (91per cent of individuals in 2018 ²²). It has a vibrant domestic market for music, which is supported by state subsidies in various ways, including grants to early career artists. It has a growing international market which is also supported by state funding and institutional arrangements. These economic aspects have to be taken into account in understanding its music industry.

According to Arts Council Norway, music industry revenue was 4,889 m. NOK (roughly 500 million euros) in 2017, of which domestic revenue represented 93 percent; copyright revenue constituted 22 percent of domestic revenues. In terms of consumption patterns, a 2019 Polaris Norway survey on music consumption patterns showed that:

²² www.statista.com/topics/4258/media-usage-in-norway/

- 21per cent downloaded music and 15 per cent purchased CDs.
- 88 per cent streamed music: 50 per cent with a paid subscription; 38 per cent on a free service
- 69 per cent listened on YouTube; 58 per cent on Spotify; 25 per cent on Facebook;
 15per cent on iTunes; 11per cent on Instagram.

The 2019 BI report *What Now (Hva Nå)* (BI, 2019) provides data on the changing pattern of the Norwegian music industry from 2011-2017; Figure 3.8 (p.45) shows that the turnover of streamed music services grew from 5 to14 per cent of the total over the period, while physical sales fell from 10 to 9 percent. At the same time, the share of composers and performers fell from 29 to 24 per cent. Concert turnover rose from 29 to 33 percent, representing the largest single item of total turnover, which in turn grew by approximately 50 per cent. Indexed growth of streaming services was 367 percent between 2011 and 2017; it was also projected to rise with Spotify, the dominant DSP, increasing its turnover, though at a lower rate of growth than before. Turnover data run the danger of double-counting and do not take inflation into account, which varied from 0.7 to 3.6 percent over the period.²³ Even taking that into account, it is clear that revenue from streamed music had grown.

Two CMOs are involved in licensing music and distributing revenues: TONO manages performing rights and also mechanical rights for Norwegian songwriters on behalf of the Nordic Copyright Bureau, which deals with mechanical rights (including synchronisation) for melody and lyrics in sound recordings in various media (including streaming) for all the Nordic; Gramo administers the economic rights of performing artists and record companies. In 2017, TONO distributed NOK 565 m. (around 57 million euros); online contributed 23 per

²³ www.statista.com/statistics/327359/inflation-rate-in-norway/

cent to the turnover while GRAMO distributed NOK 58.7 million (around 6 million euros) to performers (of which 27 percent was to foreign performers).

Putting these figures in context of the international music industry using the CISAC 2018 Global Collections Report, which presents internationally comparative data per capita (in euros): CMO revenue from music licensing in Norway (collected by TONO) was 12.5 euros per head of population (compared to 10.2 euros in the UK, which has a much bigger market). There are limitations to making such comparisons, though: they may be biased by the way that exchange rates are calculated and also fail to reflect the underlying differences in cultural consumption and institutional arrangements.

Conclusion

This article has dealt with the supply side of streamed music: other insights may come from analysis of the demand side, represented here by data showing that the market produces uniform prices and more or less the same service for users in terms of catalogue. Economics of contracting provides insight into the organisation of the production of recorded music and economics of platforms does the same for music streaming. Platform economics goes a long way to unravel the structure of incentives and payments to both sides of these two- or multisided markets. Taken together, the analysis goes some way to understanding the processes leading to the distribution of incomes to song-writers and performers from streamed music.

From being regarded initially as the cuckoo on the nest of the recording industry, streaming is hailed as the solution to revenue losses from piracy and the majors are now benefitting from significant payments from DSPs. The multiplicity of deals for streamed music - the mixture of individual and collective arrangements – is confusing and has led to considerable dissatisfaction on the part of song-writers and performers as well as of legal scholars and policy-makers, however.

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Streaming has disrupted the process of payments to creators and performers. Due to the underlying contractual arrangements, signed artists have less control over the earnings from their performances than song writers, whose CMOs make the deals. The creation of the making available right as an individual right (rather than a collective right entitling performers to equitable remuneration) has if anything reduced payments to performers (as predicted by this author). Evidence has long shown the relatively low earnings from copyright for the typical song-writer and performer: there is a middle rank of those who can sustain a modest living from recording along with other paying activities but only the superstars truly benefit. Streaming rates are too low to fully sustain a full-time career as a recording artist for the majority. Meanwhile, top stars are already working directly in product promotion and advertising.

The situation in Norway, where subscription levels and fees for streamed music are already high, raises the question whether a one hundred per cent subscription market with no advertising could sustain the current level of activity and the output of new work. The record industry there faces effective competition from concerts and festivals, though royalties from live performance are only around 20 per cent of total copyright income. In order to increase income from concerts, fees to artists would have to rise, pushing up the price of concert tickets (or be financed by advertisers?).

The analysis in this article raises the fundamental question: how sustainable *is* streaming as a long term business model for the music industry? The Spotify two-sided model faces competition from multi-sided platforms, notably Apple, which can cross-subsidize from their other activities. In addition to 'traditional' economies of scale and scope, they are able to internalise benefits from network effects, spill-overs and synergies that can be captured within the corporate enterprise. It is hard to see how Spotify, for example, which has yet to turn in a profit, can compete in the long run. The music industry therefore could be

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swallowed up in a multi-product corporation, presumably losing its identity and maybe any vestigial claim to creativity. True to its image as the dismal science, the economics of streaming does not suggest a rosy future for the music industry.

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Appendix

Table 1 Streaming services monthly subscription rates (£), library size and users: 2019

DSP	subscription*	library	users**
Spotify	9.99	35m.	100m.
Apple Music	9.99	45m.	50m.
Tidal Premium***	9.99	50m.	3m.
Tidal HiFi	19.99	50m.	?
YouTube Music	9.99	50k.	15m.
Amazon: Unlimited and Prime Music	9.99 7.99 for		35m.
	Prime members		

* per individual** not all subscribers

*** includes exclusives by JayZ, Beyonce, Kanye West et al.

Sources: <u>www.telegraph.co.uk/technology/0/best-music-streaming-services-apple-music-spotify-amazon-music/Accessed 01/12-19</u>.

Notes: Spotify and Deezer offer a freemium ad-supported service (for which the number of users is not included here). The rate is quoted in UK pounds sterling (rates are the same in US dollars and in Euros, however).

Table 2 Rates per Stream to Major Labels, 2019: USD

DSP	
Spotify	0.00437
Apple iTunes/Apple	
Music	0.00735
Google	0.00676
Amazon	0.00402
Deezer	0.0064
Tidal	0.0125
YouTube	0.00069

Source:<u>www.digitalmusicnews.com/2018/12/25/streaming-</u> music-services-pay-2019/

Table 3 Streaming rates to unsigned artists in 2017

Spotify	\$0.0038
Apple Music	\$0.0064
Tidal	\$0.0110
Deezer	\$0.0056
YouTube	\$0.0006

Source: https://www.digitalmusicnews.com/2018/01/16/streaming-music-services-pay-2018/

Table 4. Total Plays Needed to Earn US Minimum Monthly Wage: 2019

DSP	Stream rate	No. of plays needed
TIDAL	0.0125	177,604
Apple Music	0.00735	200,272
Spotify	0.00437	336,842
Amazon	0.00402	366,169
YouTube	0.00069	2,133,333

Source: www.digitalmusicnews.com/2018/12/25/streaming-music-services-pay-2019/