Economy of music in Europe: Novel data collection methods and indicators

Daniel Antal

Mária Kmety Barteková

Joost Poort

Katarína Remeňová

2023-07-28

Table of contents

# Glossary

* Artisjus: ARTISJUS Magyar Szerzői Jogvédő Iroda Egyesület is the Hungarian collective management society for authors.
* CEEMID: CEEMID was multi-country project that was a predecessor of Reprex’s Digital Music Observatory. It transferred thousands of indicators to the Digital Music Observatory and offered it to the future European Music Observatory.
* ILO: the [International Labour Organization](https://www.ilo.org/global/lang--en/index.htm) is the only tripartite U.N. agency. Since 1919 the ILO brings together governments, employers and workers of 187 Member States , to set labour standards, develop policies and devise programmes promoting decent work for all women and men.
* ISIC: The *International Standard Industrial Classification* of all economic activities, abbreviated as ISIC, is a standard *United Nations Statistics Division* (UNSD) classification of economic activities; its European version, NACE, is highly harmonised with ISIC.
* ISCO: the *International Standard Classification of Occupations* (ISCO) is an International Labour Organization (ILO) classification structure for organizing information on labour and jobs.
* Musicautor: [Musicautor](https://www.musicautor.org/en/p/musicautor) is an organization of composers, authors and music publishers for collective management of copyright in Bulgaria. As a consortium member they will create use cases for some of our deliverables.
* NACE: *Nomenclature of Economic Activities* is the European statistical classification of economic activities. Statistics produced on the basis of NACE are comparable at European and, in general, at world level.
* OPA Guidelines: the Open Policy Analysis Guidelines.
* shadow price: In economics, Shadow prices are assigned on the basis of assumptions and estimations from economic facts when explicit prices are not observable.
* SOZA: *Slovenský ochranný zväz autorský pre práva k hudobným dielam*, the *Slovak Performing and Mechanical Rights Society* ([SOZA](https://moja.soza.sk/aboutus)) executes international standards on copyright protection in the territory of the Slovak Republic. As a consortium member they will create use cases for some of our deliverables.
* VAT: Value-added Tax.

# Introduction

In Open Music Europe, we focus our data-driven research on two significant music industry policy problems: how can the European music sector provide more and better employment for music professionals, and how can it create more value-added for the European economy? Our research aims to help design and monitor policies towards these goals and to support the “triple transition” of the music industry: to perform better on digital platforms and be more sustainable environmentally and socially with improved business conduct. In WP2 and WP3, we deal with social and environmental sustainability, and in WP4, we talk about the digital transition. In WP1, we focus on ensuring that music professional careers and businesses are financially sustainable.

|  |
| --- |
| Note |
| We are committed to the Open Policy Analysis Guidelines. All documents supporting this report from the proposal and hypothesis-forming part are stored and versioned on this repository with standardised file structure: [Report on the European Music Economy](https://github.com/dataobservatory-eu/report-european-music-economy). Website: [Open Music Europe Consortium project website](https://www.openmuse.eu/)—[Digital Music Observatory data platform](https://music.dataobservatory.eu/post/2023-03-06_music-observatory-in-slovakia/).  Background documents and earlier versions: proposal stage—[10.5281/zenodo.6464782](https://zenodo.org/record/6464782), comparator model—[repository](https://github.com/dataobservatory-eu/music-market-comparators).  Funded by the European Union under [Grant No. 101095295](https://cordis.europa.eu/project/id/101095295). Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the European Commission’s Citizens, Equality, Rights and Values Programme. Neither the European Union nor the granting authority can be held responsible for them. |

Music is a very-labour intensive sector; capital investments in tangible assets are lower than in most economic sectors. Investments in music, like in all copyright-based industries, are mainly made on a personal level and compensated for natural persons. From a macroeconomic point of view, corporate income is relatively low in the European music industries, and most of the value added to the national economy is earned as personal income. Such work is either paid directly as personal income or after accruing intellectual property rights (related to the composition of musical works and the fixation of their performance in sound recordings) in the form of royalty income. Securing economic policies that improve the economic position of music professionals to improve the level of security of their pay or the way they can exploit copyrights and neighbouring rights are the most critical factors that can increase the economic value added by the sector to the national or EU economy.

Economic value added is about personal and corporate income; in a sector that is mainly organised around atypical work arrangements, increasing the level and predictability of the currently highly precarious work income is perhaps the most important tool to increase employment quality and quantity. It is also in line with the relevant European Parliament resolution that has been followed by several policy and legislative initiatives, to reduce the risk of precarious work in the European Union (European Parliament 2017).

Open Music Europe mainly aims to help better public and business policy design with data as evidence. The problems of measuring and improving the two key components of the sector’s added value, the compensation for the work of the music professionals and the way they can exploit their rights, are connected to a more theoretical problem and to a more practical one: the heavy decentralisation of the industry, combined with a high level of informality makes measuring (and improving) economic activities difficult; the informality also poses challenges for the production of statistics. Many music professionals disappear from the official measurement of income and employment, including the monitoring of copyright and neighbouring rights exploitation-related income.

Our grant agreement and task list specifically mentions that we will build a market comparator model, i.e., in T1.1 we are focusing on methodologies and data collection modes that support this task. If we use the *market approach* for valuations, we must consider the differences in the way music is licenced and royalties are paid for.

Valuation aims to establish a calculated value of copyright-protected assets consistent with the expected, legally acceptable future income streams of the assets; taking a future income stream as given, we arrive at the asset value; and the taking the asset value, we can exclude future revenue streams that are incompatible with this value. From an economic point of view, these questions are the two sides of the same coin, but different stakeholders in the music economy are facing different sides depending on their ability to set prices or they only take prices.

Collective rights management organisations are usually concerned with price setting on the income stream, and individual rights management organisations with implied (transfer) asset value given currently foreseeable, projected income.

For collective rights management organisations establishing a fair price for a defined quantity of music use is one of their core business tasks, and proper pricing can be seen as part of their fiduciary duty towards the rightsholders that they represent. On the other hand, individual rights management entities, i.e. record labels, music publishers and their distributors, mainly use valuation with an asset value view if they cannot negotiate prices. Labels and publishers, perhaps with the exception of global “major”players, in most cases, are price accepting; they do not have the market power to set their terms. Their concern is usually the transfer of assets: they want to acquire royalty-earning assets (musical works or recordings) that are undervalued or dispose of those that are overvalued compared to their earnings outlooks.

For labels or even self-releasing musicians, a simpler, but equally important decisions is based on similar information: which elements of the repertoire should be actively promoted, against marketing expenses, and which should be passively managed without dedicated marketing expenditures? In a public policy context, this is the decision facing a music export office, too, which must set priorities on the use oflimited promotion funds available for an almost infinitely large protected repertoire.

In WP1, we aim to address the following **key research questions**:

1. How do music-related work income and copyright income develop compared to the average of the European economy? What is the process of music income real convergence between the richer and poorer countries of the EU? See [Adding value](#lit-value-added).
2. What kind of policies can help to increase the value added to the sector? What kind of copyright policies can improve the royalty income, particularly in EU countries where such income is below average?
3. What does the informality of the music sector mean? How can the informality of the music business be conceptualised, and how can the informal music economy be correctly measured for its value-added and employment? How can we conceptualise and measure the precarity of work in the music industry? See in [literature review](#lit-informal-economy). See [employment](#lit-employment).
4. How can we support a consistent price setting or asset valuation for business policies (such as price setting by collective management organisation or repertoire acquisitions of labels and publishers) and for public policies (policies aimed at a better protection and administration of copyrights and neighbouring rights, or music export priorities.) What are the special tasks related to zero-price-transactions and shadow pricing?
5. How can we improve statistical practices to measure and monitor to support research and innovation that supports evidence-gathering and smooth business administration related to the above questions?

# Literature review

We follow a definition of the music industry developed by the EU Joint Research Centre (JRC); this definition puts the standard American music business/music industry definition into an EU context. The difference in presentation is that in the American policy context, the music industry is characterised as part of the entertainment industry (“the monetised function of leisure time”); in Europe, it is part of the cultural and creative industries, and recently cultural and creative sectors and industries (CCSI); the European definition is more inclusive to non-monetised forms of music practice and non-profit or social enterprises; Recent debate in the European policy context is about the inclusion of the cultural heritage sector in the CCSI, which can hardly be described as an “industry”[[1]](#footnote-34).

In the American definition, the “music business is a system of delivering music to consumers. Like any system, it creates and delivers things that have value to consumers (songs, recordings, and performances) but must do so within a dynamic external environment. The music business revolves almost entirely around three creative events: the writing of a song, the live performance of a song, and the making of a recording of a song. Three separate, but interrelated, revenue streams exist for the song, the live performance, and the recording.” (Hull et al. 2011, 51.)

In the European definitions, various aspects of these activities had been present. The EU JRC settled for the adoption of the American “music trade” or “music business” or “music industry” (synonyms) definition as described above (Andra Leurdijk and Ottilie 2012, 15–18).

In the late 20th century, the music industry was often used as a synonym for the sound recording industry (see, for example, (Burke 2011)), which in statistical terms is in the UN (ISIC) and European economic classification system (NACE) is part of one economic activity group with music publishing, i.e., J59.2. In the 21st century, the live performance of music is a bigger business than the sale of recorded performances. The live music industry in the standard classification is part of the R90 division of economic activities, which consists of all forms of performing arts.

There are several reasons why there is no standardised statistical measurement of the music industry in 2023. The system of national accounts does not cover the music industry. The statistical data classification nomenclature behind the national accounts at the first worldwide adoption did not regard music—and the creative industries—as “industries”. The first global classification nomenclature of economic activities ISIC, and its European adoption, NACE, even after its significant revision in 2006, does not define a “music” or “film” industry, a problem that we will connect to the high level of informality in the sector (see (**lit-informal-economy?**)), which poses both theoretical and practical problems to measuring the economic performance of music consistently.

In the previous decade, the former CEEMID project has provided significant insight and introduced new methodologies into valuing the (value-added) income and the value of rights in the sector in Hungary, Slovakia, and Croatia first, then in the wider and less data-rich Central and Eastern European region. The CEEMID project was motivated by the realisation of the lack of reliable data on how the Hungarian, Slovak and Croatian music sector add value to their respective national economies (Antal 2015, 2017, 2019b, 2019a). While the three country studies had slightly different policy focuses, they had to cope with a common problem: the low level of formalisation of the music sectors of these countries. CEEMID introduced measurement methodologies from the economics and statistics of the informal economy. These problems are prevalent all over Europe, even in the far more developed UK music sector.

## Value creation *within* the music industry

Although the European music sector is mainly made of small players, the the global music economy has some very large enterprises that are well-known in many countries of Europe and beyond, such as the Universal Music Group, Sony Music, Warner Music Group, or Live Nation. And because of the high globalisation of music, it also has global industry bodies such as IFPI or CISAC that use definitions which become quasi-standards when used used in different countries. There is also a common analytical understanding in Europe and the U.S. what is the “music business” even it these concepts are not harmonised with international statistical classifications.

|  |
| --- |
|  |

For the mapping of the music industry, we use the standard “three income stream model” that is widely accepted in the United States as well as in the European Union (Hull et al. 2011) or in Europe (Andra Leurdijk et al. 2013; Adnra Leurdijk and Ottilie 2012).

The concept of the *value chain* shows what processes add value to the services of the music business to the end-user. It should not be confused with the concept of *value added*. The value chain shows why music businesses can sell music at a higher value than its production cost; the value added is the new income of the music businesses and music professionals they can keep after all their costs are paid. A well-functioning value chain can increase the value added of the industry and the national economy. For our measurement purposes, we used the value chain to pinpoint those units where the new income (and the jobs that the income supports) are generated, and where this income and jobs can be empirically observed.

The fact that music is not present in the ISIC or NACE classifications does not mean that music is excluded from the statistical processes that generate national and EU-level statistics. The businesses in the value chain are asked as part of the “Creative, arts and entertainment activities” division or the “Motion picture, video and television programme production, sound recording and music publishing activities”. In 2012, the ad-hoc ESSNet Culture working group of the European Statistical System made several recommendations on changing data collection (Bína, Vladimir et al. 2012), enabling the identification of various creative industry performances in official statistics. These recommendations were not consistently and widely adopted in Europe. We will later evaluate in our research to what extent our pilot countries, Slovakia, Hungary, and Bulgaria enacted them.

## The concept of Total Economic Value: welfare creation by the music industry

At a societal level, the starting point for music policy is rooted in welfare economics. Social welfare is the sum of all values that governments may seek to maximise (Figure 1). Total Economic Value includes use and non-use value and comprises market and non-market value. A typical structure for Total Economic Value is presented below. As illustrated, non-market values can be both use and non-use values.

|  |
| --- |
| Social welfare created by the music sector |

Direct use values are more likely than other types of value to have a corresponding market activity, giving rise to a measure of value through a market price or return, e.g., the total income of a creative or cultural enterprise. Direct use values can be categorised as either: - Consumptive: there is active use of the non- market good or service by the valuer. An example of a consumptive direct use value is attendance at a performance. - Non-Consumptive: the non-market good or service is not diminished or used up—there is vicarious use by the valuer. An example of a non-consumptive direct use value is watching a television programme about a cultural event—vicarious use of the event.

Indirect use values come from using a good or service but not through one’s engagement with it. An example of indirect use value is living near cultural facilities that one does not attend. Indirect use values tend to be overlooked in a market setting. However, they are sometimes reflected in market prices in other parts of the economy, such as property prices. A family’s home can increase in monetary value if a derelict neighbourhood warehouse is converted into a concert hall, even if the family never visits it.

### Non-use value

Total Economic Value goes beyond direct and indirect use of goods and services to ‘non-use’ values. Non-use value is the value that people assign to goods and services even if they never have and never will use them. Non-use values have been categorised as follows (Kmety Bartekova 2021):

* Option value: the value placed on individual willingness to pay for maintaining an asset or resource even if there is little or no likelihood of the individual ever using it,[JP2: is this not indirect value, DA: the value of ‘potential use’ is inconsisently used in the copyright literature, and it often refers to uses that do not happen, have not happened, and perhaps will never happen, so this chategorisation should be perhaps refined.]
* Bequest value: values placed on individual willingness to pay for maintaining or preserving an asset or resource that has no use now so that it is available for future generations,
* Existence value: reflecting the benefits people receive from knowing that say, an environmental resource, such as Antarctica, exists, and
* Altruistic value: the value placed on an individual willingness to pay for maintaining an asset or resource that is not used by the individual so that others may use it.

Altruism/bequest values arise from others’ current or future use of a good or service. Pure existence values arise from merely knowing that a valuable good or service exists. In many European countries, an important role of music education within the general education system is the introduction of national folk/classical or even popular music heritage to new generations; local and national governments value and spend on music in this way.

### Market and non-market value

Market values for creative goods and services are usually reflected in the prices paid. For the industry or an industry sector, the Output value (see Direct use value above) would represent the total market value of that industry or sector; although the music industry is well-known to offer many zero-priced services. In this case, it is not the final user, but an intermediary, for example, a radio station, that is paying for the music.

Non-market values are values held by individuals or the community at large for goods and services that are not expressed in a market and hence do not have an accurate price from which to derive a value (i.e., the price differs strongly from the total value society is willing to pay for the good or service).

Public goods and externalities are the most common sources of non-market values. Public goods cannot be restricted or rationed, so a price cannot be charged for their consumption, and the market price does not consider the total social benefits or costs of the good or service, known as externalities.

Total Economic Value provides a conceptual framework to consistently identify non-market values so they can be included in an economic assessment. Non-market values are primarily non-use values (option value, bequest value and existence value). However, they may also include indirect use values (vicarious use of a good or service) and direct use values (actual use of a good or service).

In most of our work, we will focus our attention on the use value of music.

## Increasing the value created by the music sector: value added

Gross value added (GVA) is an economic productivity metric that measures the contribution of a company, sector, region or company. GVA provides the monetary value of the goods and services (total output) that this company, sector or country has produced minus the cost of all inputs and raw materials directly attributable to that production (intermediate consumption.) GVA is closely related to the most quoted macro-level economic indicator, gross domestic product (GDP.) GVA shows gross domestic product without the impact of subsidies and taxes (tariffs) on products. In other words, GVA shows GDP before the effect of government fiscal interaction with the industry.

On a macroeconomic level, Gross Value Added (GVA) is closely related to the Gross Domestic Product (GDP) — the difference is the net value of subsidies received for the music industry and taxes paid. As we have shown in Hungary and Slovakia, contrary to common belief, the developing music sectors of these countries contributed with far more taxes than subsidies received; in Slovakia, we have shown that the music industry was one of the highest net payers of the national treasury.

On the level of music businesses, the value added is the sale value of music services and products minus their cost of production; this is the revenue generated by the capital and labour factors of the business. As we explain later, the music sector is highly informal, and the two factors production (capital and labour) are undivided. For example, the value-added of a self-publishing and self-releasing individual musician is the personal income of this person, who partly offers work, but also makes investments (into tangible and intangible or intellectual assets) to create the music.

If we have a sufficiently formalised music business—for example, a limited liability company centred around a commercially successful artist—, the profit and loss statement and the balance sheets of this enterprise allow us to observe the value added, i.e., the economic or accounting income above the cost of production. The problem with the informal music economy is that much of the costs are not accounted for, only the gross income. The reconciliation of the value-added data from an enterprise survey or an administrative record like a financial report and from a personal survey is not straightforward. This is a problem that we will try to address with various methods.

In the music industry, increasing value added mainly needs the increase of mixed income (see (**lit-informal-economy?**)) and the value of copyright protected assets, which in turn increases the royalty income from the licensing of such assets. We turn to the methodological issues of this important business and public policy goal now.

## Valuing copyright and neighbouring rights: legal constraints

Policymakers and primarily business entities would like to see a music valuation and pricing model that is economically and legally sound. From a technical point of view, such a model would define statistical and accounting processes that will yield correct values and prices from available accounting- or survey-based evidence. When developing our market comparator model in T1.1 (and filling it up with data in T1.2 and making it reproducible with 1-2 country examples), we aim to create such a tool.

In a nutshell, we need a model that will relate “to the actual or potential economic value of the licensed or transferred rights, taking into account the author’s or performer’s contribution to the overall work or other subject matter and all other circumstances of the case, such as market practices or the actual exploitation of the work.” (Copyright and related rights in the Digital Single Market Directive (CDSM) *Copyright and related rights in the Digital Single Market Directive* (CDSM) (European Parliament and the Council 2019a, recital 73).

This copyright policy aim has two aspects: - The adequate income “is taking into account the author’s or performer’s contribution to the overall work”—this is related to our research topic on decent pay for decent work (see (**lit-employment?**)). - The “market practices or the actual exploitation of the work” is directly related to market monitoring, and establishing quantities of exploitation, and the most important market practice information, the price level, which is []xxx

The European policy aim above wants to create an appropriate income (remuneration) for rightsholders, which, in market transactions, will be translated into licensing agreements that add a price to the licence transactions. The price in these licensing agreements is the unit price which increases the royalty income proportionally with music use (for example, with the number of songs listened to, or the number of days when public performance took place in a public restaurant.) Setting this price is perhaps the most important business policy issue in the music economy, and the monitoring price movements is one of the most important public policy issues.

While copyright law creates the intellectual property right with the economic value, in practice, the challenges of calculating an acceptable price for music are mainly *not* related to copyright law. “From all branches of the legal system, it is for tax law and for competition law to have the highest impact on price through their monitoring over fairness of prices charged by enterprises active in the market.” (Garzaro and Garzaro 2019). Whilst in the music economy, copyright policy plays a central role in remunerating authors, performers and publishers, in practice, stakeholder disputes in daily management practice are far more likely to be fought in this area.

In WP1, we aim to create a model that helps to set remuneration at an adequate level for copyrights and neighbouring rights, we must respect these other branches of law.

Competition law applies directly and in the same way across Europe, but it diverges from U.S. law: in Europe, too low (predatory) and too high (excessive) prices are illegal, whereas in the U.S., only too high prices are illegal. Tax law, on the other hand, is mainly concerned with international transactions and transfer prices that would enable international company groups to hide the tax base from authorities abroad.

The administration of prices is strongly related to accounting, financial reporting and audit laws. Bookkeeping records the number of transactions and the price charged. Financial analysis establishes the fair value of economic assets—including intellectual properties, such as copyrights or neighbouring rights—based on the expected future income of the asset. Fair valuation in accounting terms, in general, is intended to avoid misrepresentations of the future expected incomes to mislead important business stakeholders like licensing partners, owners, or the tax authorities. Fair valuation models are useful tools to set the fair copyright remuneration, because they show the fair (lawful) future exploitation possibilities of the asset on the basis of recorded facts (quantities and prices in the royalty accounts of the entity in light of market prices, quantities used for the analysis.)

To sum up, we are looking for a model that will not translate to excessively high or low prices in Europe for music users, and keeps the arm’s length standard to prevent the illegal transfer of profits with applying unfair prices. At the same time, it will decently remunerate the rightsholders.

### Zero price transactions

What makes understanding music markets so difficult is that they are seemingly in plain sight of the public and policymakers, but most market transactions are invisible. In many advanced music markets, more than half of the music users are not paid for by the consumer. Radio stations and popular UUC platforms like YouTube, TikTok or SoundCloud, but even licensed music streaming platforms like Spotify offer zero-price services for users[[2]](#footnote-47).

In the past years, there has been an increased interest in analysing online platforms where consumers do not pay a price. Watching a music video on YouTube, or reading amusing content on Facebook does not cost a consumer anything. Instead, companies receive payment from advertising or commission. As a recent competition study pointed out, such practices probably originated from using music and audiovisual content on radio and television (Competition & Markets Authority 2020). While there is a growing consensus and practice on incorporating zero-price transactions into competition practice, in our experience, the empirical observation of these markets is very challenging. When consumers pay a price, both the quantity of the sales and the price is recorded on the invoice, and this information is translated into tax returns and financial statements. Zero-price transactions have no invoices and no accounting trail.

Just because a transaction has no direct price, it is not valueless. The practice of assigning a monetary value to an item, commodity, or service that is not ordinarily bought and sold in any marketplace is called shadow pricing in economics. **Shadow prices** are assigned on the basis of assumptions and estimations from economic facts. Shadow pricing is mainly used in the valuation of intangible assets. The widespread use of zero-price transactions in music makes it particularly important that we develop a data-to-policy pipeline that collects information necessary for the computation of shadow prices for copyright/neighbouring right protected assets.

The CEEMID full market comparator model we introduce in the following sections used a methodology that established normalised shadow prices comparable to observable licensing fees. In Open Music Europe we want to improve, and harmonise the data inputs of this model and improve its sh

### Valuation

An important technique when setting the price for transferring copyright-protected work or setting a price on its licensing to a user is called valuation. One of the prerequisites of intellectual property valuation is that the assets have an income stream. Typical motivations behind a valuation are transaction strategy (i.e., setting future conditions to exploit the asset) or litigation concerning the adequacy of the existing conditions set (Flignor and Orozco 2006).

The valuation principles are enshrined in the fair valuation principles of the WIPO and the fair value principles of the *International Financial Reporting Board*—their use is not a recommendation but a statutory obligation in IFRS countries, which includes the European Union’s member states. The Fair Value standard (IFRS 2011) of IFRS has been incorporated into national European laws via EU law (and it remained UK law after Brexit, too.)

In 2008, the global recording industry body, IFPI, published *Valuing the use of recorded music*, created by PriceWaterhouseCooper (PwC 2008). So far, this is the only methodological guide that we are aware of about the application of the WIPO and IFRS standards (Flignor and Orozco 2006; Puca and Zyla 2019) with the help of econometric models.

The recognised fair valuation principles stipulated that the “most applicable method” must be used in valuations out of the three allowed approaches, i.e., the cost approach, the income approach and the market approach. As explained below, the market approach is the only viable approach for music, which is why we will build a “market comparator model” in this project.

Because most music is created by natural persons (and in the informal economy, see [Informal economy and mixed surveys](#lit-informal-economy)), the (historical) *cost approach* is rarely a good option; the natural person in a sole proprietorship or a more informal economic form is not recording his or her costs. As we mentioned above, the lack of appropriate business records of most creative activities related to the composition and performance of music is partly related to the fact that rights holders are natural persons who do not account for their working time, i.e., the time when they are composing music or practise for a live or recorded performance. If their enterprise is informal or has a low level of formalisation, they may not be able to keep records of their material costs in a way that would satisfy tax authorities or meet the demands of a copyright litigation, either. This key policy insight relates to our other data collection efforts and other items on the policy agenda. (See [Towards evidence-based music industry policies](#towards-music-policy) where we explain how our methodology and collection efforts will result in policy-actionable data in T1.3.).

The *income approach* compares the royalty flows from the recording of a work by using an appropriate “discount rate.” When a user buys in a music store an mp3 file on 1 July 2015, it triggers a single royalty payment after the deductions of the cost of sale on the marketplace. In a streaming platform, the same user’s royalty payments appear monthly when she listens to the song and on the radio, usually every year. The discount rate provides a proper comparison between remuneration received in July 2015 and April 2021. The *income approach* is often impractical when we have irregular or annual payments. With annual payments, the valuation’s time frame would be too long. Calculating an appropriate discount rate would also be practically impossible for many uses. And finally, in the case of a high degree of informality or the presence of sole proprietors, freelancers, and natural persons, the adequate business administration that meets the burden of proof for tax or copyright litigation purposes is also lacking.

The **market approach** tries to identify a payment rate based on sufficiently similar uses. Many ideas were tried internationally to identify the sufficiently similar use of music streaming; for example, relating ad-supported and automatically selected songs to radio streams and relating cases where the user controls the selection of songs and may even download them to music downloads. We will use the market approach for practical uses, which will need many small data transformations because “sufficiently similar uses” may pay their licensing fees in a different payment scheme (lump-sum, monthly, annual, etc.)

The market approach is built on a somewhat circuitous reasoning: On an economic level, the price system and the market as an institution is assumed to function well so that price information can be carried over from correctly priced transactions to misprised ones. However, the model itself cannot determine the correctly priced transactions. On a legal level, the market comparisons presuppose no severe collusion of how copyright, competition and fiscal law are set or applied in the market. This second assumption is necessary to determine valuations that only compare legal market transactions.

The market approach is still a fundamental valuation method, and the other two methods, i.e., the income and the cost method, also rely on market information that is not challenged. As mentioned, the income model needs a discount rate computation from market data, and the cost approach needs a market-based deflator. All three valuation methods are market-based, and they suppose that the market functions correctly.

The different branches of law that the economist must consider are harmonised among EU member states on a different level: competition law is directly applicable, and accounting law applies the same IFRS standards in all member states but differs in other aspects. Copyright law is harmonised to some extent by international and EU law but differs more significantly among member states. Regardless of whether we want to present fair values of assets for (potential) asset transfer or fair prices for licensing the asset, an actual licensing policy or broader copyright policy can also be challenged on non-valuation grounds. While we hope to achieve a scientific peer review of our methodology, our models will be tested in a court of law for practical applicability. This also affects the methods of how we are incorporating previous work predating Open Music Europe.

CEEMID, with the current consortium partners, started to develop a consistent, full market comparator model based on the market comparator model, following closely two pieces of jurisprudence: *OSA vs Léčebné lázně Mariánské Lázně a.s* (ECJ 2014) and *AKKA-LA v Konkurences padome* cases (ECJ 2017). Both cases were primarily argued based on competition law and used the price comparison method of competition authorities; in both cases, the Court of the European Union still had to reconcile concepts of copyright and competition law. We took these cases and the WIPO’s valuation methods and tried to align them with accounting practices in Hungary, Slovakia, and Croatia. Our approach, in different uses and different aspects, had been challenged in litigation in Hungary and Slovakia. In Open Music Europe, we treat the last CEEMID models used in Slovakia in 2021 and in Hungary in 2019 as a basis and take various challenges either from these countries during the now open scientific peer review process or in the difficulties while reproducing the model in a different setting, first in Bulgaria, and improve it in several ways, e.g.: - Improve consistency with concepts of copyright, competition, fiscal law, economics, finance, and accounting, which is a subtask in T1.1. Generally, improve the scientific underpinning of a model that grew out of practice. Consider newer jurisprudence. - Improve how the market comparator data are collected and processed from surveys or administrative records, which are subsequent sub-tasks in T1.2, T2.2, and T3.2 (we will incorporate data from other WPs, too.) - Improve the way shadow prices are calculated because of the prevalence of zero-price market transactions.

The application of *fair valuation principles* is particularly challenging in the case of private copying, where the transactions are not recorded (as they are not market transactions) and in streaming, which is a relatively new technology that is seen in licensing as a mixture of earlier mechanical copy-based and public performance-based licensing, and has so many transactions that most rights holders (and even their national organisations) lack the data processing capacity to administer the rights or challenge incorrect payments.

#### Transactions data

The economy pillar of a future European Music Observatory must provide methodologies to create indicators and, when possible, actual, observed indicators that help valuation either for a transaction (price) setting or an asset value appraisal perspective. The same set of transaction data is required for both perspectives.

* The **public performance model** has various pricing standards for *live music*, *publishing* and the *recording* side. For radio broadcasting, transmission, and background music, it uses annual blanket licensing. When analysing public performance uses and payments, we must be careful with the timeframe of the analysis. Public performance revenues are usually accrued throughout the year and paid once, but there may be different accrual and payment periods present in a market.
* The **mechanical licensing model** is used for physical products, legalised digital downloads, and home copying. In most cases it has lump sum values, paid upfront and for perpetuity. In the case of home copying levies/compensation, the sum is not expressed per unit but in annual lump sums, which are in some countries historically connected to the mechanical pricing model. In *Private Copying in Croatia* the analogy is explained in detail (Antal 2019a). The mechanical licensing model is well harmonised globally via BIEM, the international organisation representing mechanical rights societies.
* The **streaming model** is *de facto* harmonised by the fact that the major players in the world are the same, and they are using similar model contracts. Legally speaking, the solutions differ among the UK, U.S., and EU solutions, but the streaming model is always a hybrid of the mechanical licensing and the public performance models. A streaming provider needs to have a licence from both the publishing side (that is present in mechanical licensing) and all interested parties that are present in public performance licensing. In streaming, the default accrual and payment period is the month.
* The UCC/UGC/UUC model (mainly applied by YouTube) (user-created content, user-generated content or user-uploaded content) has a different remuneration stream that is changing, at least in Europe, with new copyright provisions. It has similarities with the streaming model in how the royalties are paid out, but the legal basis and the economic base of the payments is different. We will go into details about this type of streaming in our separate paper on the music market comparator model.

These licensing models are very well harmonised internationally. Our model could be easily transposed to any EU member state or the United Kingdom and even to the U.S. if we consider the problem of radio transmission licensing in that jurisdiction. It is important to notice that while the same principles can be applied in many jurisdictions, the actual value of the rights will differ in each country because of different market and regulatory conditions.

The earlier CEEMID models were focusing on a common price/shadow price harmonisation methodology that translates observed revenues from the three income streams—excluding the background music sold to business-to-business uses in the hotel, restaurant, and catering sectors— into notional hourly royalty figures. This model has not been published earlier, only used in business confidential work (Antal 2019d). The public grant of Open Music Europe allows the publication and improvement of this model as outlined in the previous subsection. We aim to improve the statistical processes that observe the revenues and the economic calculations that determine the prices or shadow prices.

|  |
| --- |
| A visual plot from the CEEMID market comparators model. The unpublished model, which we are preparing for a publication in T1.1., uses observed revenues and observed listening quantities in ours to normalize royalty payments/revenues into a single unit price or shadow price. |

The documentation of the market comparator model—which is a subtask of T1.1, and which will be published separately from this deliverable—can be found in the open repository xxxx . It is in an early draft and not meant to be reviewed yet.

#### The ICET model

The ESSNet-Culture working group recommends the measurement of cultural access and participation (including market- and non-market forms) on the basis of the ICET model (Bína, Vladimir et al. 2012, pp 237-239).

* **I**nformation: to seek, collect and spread information on culture;
* **C**ommunication and community: to interact with others on cultural issues and to participate in cultural networks;
* **Enjoyment and expression**: to enjoy exhibitions, art performances and other forms of cultural expression, to practise the arts for leisure, and to create online content;
* **T**ransaction: to buy art and to buy or reserve tickets for shows.

The ICET model is based on a long history of quantitative sociology and media research which has almost 50 years of research history. It is a well-established methodology endorsed by important statistical standard-setters, and therefore surveys based on these methods are difficult to challenge in court. For more details on the ICET model and conducted cultural access and participation surveys with it see (Haan and Adolfsen 2008; Haan and Broek 2012).

#### Equitable remuneration

Because in the past years the term *equitable remuneration* was often part of music policy debates, we want to clarify that this technical term is often not covering what people would instinctively consider ‘equitable’ or ‘just’. *Equitable remuneration* is a legal concept which has an economic aspect.

In international law, it was first enshrined as *Convention C100* of the International Labour Organisation (ILO), stipulating that men and women should receive equal pay for equal work (International Labour Organization (ILO) 1951).

Within the context of international copyright law, it was introduced as a modification of the *Berne Convention* by the *Rome Convention* for the remuneration of the broadcasting of recorded fixation of music works (recordings) since 1971[[3]](#footnote-55). Equitable remuneration is originally connected to a compulsory licence that must be paid when recorded music is played in a publicly accessible location to the performing artists and music producers. In a compulsory licensing regime, the rightsholders are not in a position to negotiate the royalty rates or deny use to any business entity[[4]](#footnote-56), because it is not a negotiated market rate. The payable rate is called *equitable* (and, in some jurisdictions, *fair*) . The law stipulates in these cases the rate must be set *as if* they have negotiated in a market transaction of two willing parties without monopoly (supplier power) or monopsony (buyer power).

The equitable remuneration standards in international treaties do not set a standard for *calculating* the monetary value of the equitable remuneration that is payable to the rightsholders. In an international context, a study of Europe Economics and IVIR has shown that there are notable differences in how *equitable remuneration* is understood—and it is often used as a synonym for *fair* remuneration (Europe Economics & IVIR 2015).

## Employment

The work in the music industry, regardless if it is artistic or technical, managerial work, is often described in the music literature as “precarious”. CEEMID has used this framework in the last decade to understand how music professionals earn their living. Precarious work is a term originating in work sociology—see for example: (Haynes and Marshall 2018)—, and it refers to working conditions with a high risk of being underpaid, insecure in terms of employment and low working safety, for example, a high risk of sexual harassment. Precarious work is related to the labour economics term “informal work”^[See many publications within the *Music as Labour* collection, particularly by the introdcution chapter by the editors Rosa Reitsamer and Dagmar Abfalter (Abfalter and Reitsamer 2022).].

Because music precarity is often researched with qualitative sociological and anthropological methods^[See for example *Living the Dream: Precarious Labour in the Live Music Industry* (Zendel 2014).], it is often ill-designed to be measured with surveys or administrative data. In the Netherlands, Martin Olsthoorn offered two formalised indicator definitions that are compatible with the Dutch OSA survey [Olsthoorn (2014)][[5]](#footnote-60). The *Central European Music Industry Report* and the previous national reports have developed a similar survey but less formally defined as Olsthoorn’s first indicator, which focuses on the risk of low total income.

In the *Central European Music Industry Report*, and particularly in work conducted for the Czech music export office, we built CART models based on the CEEMID survey data to quantify the achievements required by Austrian and Czech musicians to reach full-time equivalent income from a large number of sources.

|  |
| --- |
| Achievement required for full-time equivalent musician employment in Austria and Czechia (CEEMID) |

This chart shows that in 2019, Austrian musicians with 6-7 years of composition and recording history had a chance to stay in the music business and earn a full-time living; in Czechia, about 12-13 years of composing history were needed. As the Central European Music Industry Report and national reports showed, the difference could be hypothetically explained by a lower level of copyright protection in Czechia (or Slovakia) and generally an underdeveloped recording industry. In the CEE region, we see particularly strong reliance on the author’s revenues compared to the UK or Austria in the absence of viable commercial record sales.

## Informal economy and mixed surveys

The concept of the “informal economy” has changed significantly. in the last three decades; unfortunately, especially in an Eastern European context, it is still associated with illegality and invisibility for the tax authorities, whereas the International Labour Organization (ILO) definition of the informal economy explicitly excludes illicit activities. The modern definition of the informal economy used by the OECD, ILO or the IMF recognises the importance of the informal economy and does not focus on anomalies but regards the informal economy as a core component of economies at every level of development. “The informal economy refers to all economic activities, excluding illicit activities, by workers and economic units that are, in law or in practice, not covered or insufficiently covered by formal arrangements”[[6]](#footnote-65). Employees are considered informally employed if their employer does not contribute to social security on their behalf or, in the case of a missing answer, if they do not benefit from paid annual leave or sick leave.

“While the informal economy exists everywhere, it is more prevalent in low-income countries, where it represents 89 per cent of total employment, compared to 82 per cent and 50 per cent, respectively, in lower-middle and upper-middle-income countries and 16 per cent in high-income countries”. Informality in the creative industries is not specific for Slovakia or the European Union: according the ILO, the 40.2% of the global workforce and 13.9% of the European workforce in the *Arts, entertainment and recreation* works in informal arrangements (International Labour Office (ILO) 2023, 11, pp. 60-61.). It is not straighforward to translate these numbers to the music industry, because the ILO statistics are based on the occupational coding of the respondants, and the lower 13.9% mainly refers to artistic occupations (in music, this usually applies to a minority of the creators who have a formal music education and work with classicla music or jazz.)

While globally the insecurity of informal work puts mainly women at risk, this is not the case in this sector; the reason behind this is that the music economy, like many creative sectors, employs more men than women in general.

A pan-European survey in the context of the creation of a European music export strategy (European Commission, Directorate-General for Education, Youth, Sport and Culture, Smidt, et al. 2020, 19–20) found that that 12 EU members states and the United Kingdom[[7]](#footnote-66) had created a specific legal status for artists often linked to either 1) a minimum level of remuneration for artists, or; 2) special conditions for social security rights. In other countries, artists and music businesses use a mix of freelancing, sole traders and micro-companies’ statutes

The strategy document interprets that in the majority of the EU countries “[t]he lack of specific employment status weakens the artists’ level of social protection especially in the context of music export, where touring and showcasing (that became crucial to compensate revenue loss due to the digital shift and the resulting evolution of the music sector’s value chain) lead to an intensification of short-term international mobility, often in different countries.”

In the EU countries, including Slovakia, Hungary and Bulgaria, the informal economy is measured by the European Union Statistics on Income and Living Conditions (EU-SILC) survey. While the earlier CEEMID/Digital Music Observatory surveys did not strictly follow the EU-SILC and ILO surveying guidelines, with a similar methodology they put the Central and Eastern European music industry employment’s informal component around or above the global average. We do not think that this is a contradiction: the informality may be lower in the Western and Nordic part of the EU, and it is also likely that many informal arrangements were not properly attributed to the creative sectors. The Digital Music Observatory surveys have connected formal and informal technical and managerial employment to the sector, which is not possible from the EU-SILC survey alone. It is likely that with a proper mapping the EU-SILC survey methodology would also show a much higher level of informality in the music sector.

While the earlier CEEMID/Digital Music Observatory surveys did not strictly follow the EU-SILC and ILO surveying guidelines, with a similar methodology they put the Central and Eastern European music industry employment’s informal component around or above the global average. We do not think that this is a contradiction: the informality may be lower in the Western and Nordic part of the EU, and it is also likely that many informal arrangements were not properly attributed to the creative sectors. The Digital Music Observatory surveys have connected formal and informal technical and managerial employment to the sector, which is not possible from the EU-SILC survey alone. It is likely that with a proper mapping the EU-SILC survey methodology would also show a much higher level of informality in the music sector.

The last 30 years of economic research have shown that for certain occupational groups and sectors, the informal economy is not only invisible to the taxman—in Hungary and Slovakia, we believe that most of the industry income became visible to the tax authorities over these decades—, but it is mainly invisible for the statistical system that provides evidence for economic policies.

While in 2018 the *International Labour Organization* (ILO) definition was slightly changed, the 1993 definition already gave us a very useful characterization that fits very well the European music industries: “The informal sector may be broadly characterized as consisting of units engaged in the production of goods or services with the primary objective of generating employment and incomes for the persons concerned. These units typically operate at a low level of organisation, with little or no division between labour and capital as factors of production and on a small scale” (International Labour Organization (ILO) 1993). In addition, they share the characteristics of household enterprises. The resolution defines the concept of the informal economy as “all economic activities by workers and economic units that are—in law or in practice—not covered or insufficiently covered by formal arrangements”.

The creation of the Hungarian and Slovak national music industry reports in the CEEMID project focused on these key aspects, particularly the lack of typical or formal labour arrangements and the lacking division of labour and capital as factors of production. We have shown that **in Hungary, Slovakia or Croatia, the typical stakeholder of the music economy is centred around a self-publishing, self-releasing (group of) artist(s), who exploit their labour, own invested assets and copyrights or neighbouring rights.** We have shown that a typical music professional receives income from 20-60 “gigs” within a year; in many cases, the closest resemblance to an employer is their relationship with a collective management organisation. Later, the [Central European Music Industry Report](https://ceereport2020.ceemid.eu/) showed that from Austria to Armenia, the situation is similar regardless of the level of economic development and industry income.

The ILO and the OECD (following the IMF) suggested using mixed enterprise- and household or personal surveys to capture the employment and income created in the informal economy. This approach is widely used in the European Union -- in our first pilot country, Slovakia, the Statistical Office of the Slovak Republic (SOSR) uses mixed surveys since 2010. CEEMID introduced a similar surveying framework in 2014 in Hungary and refined it in the 2015 Croatian, 2017 Slovak, 2017-2019 Hungarian and 2019 Central European music professional surveys.

The OECD Manual on *Measuring the Non Observed Economy* endorses a combination of LFS surveys with in-depth more specific surveys, such as the Digital Music Observatory/CEEMID music professional survey that we want to develop further: “Monitoring the number and characteristics of the persons in the informal sector and the conditions of their employment and work can be achieved by periodically including a few additional questions pertaining to the informal sector definition in an existing labour force or similar household survey […] Labour force or similar household surveys are often conducted at a higher frequency than specialised, in-depth informal sector surveys. Thus, the data obtained from the former concerning the evolution of labour inputs in the informal sector can be used to extrapolate data from the latter […]” (International Monetary Fund (IMF) 2002, 170).

Similarly, the manual on the same topic of the *International Labour Organization* suggests taking the LFS as a starting point: “There are many advantages to including the measurement of both informal employment and employment in the informal sector in a labour force survey or a household survey that includes the labour force as a topic These include the relative ease with which the topics can be added to an existing survey, cost-effectiveness, conceptual coherence with other labour force statistics, and the analytical possibilities offered by the collected information.” (International Labour Organization (ILO) 2013)

The application of mixed surveys is not only challenging on the production side of statistics, for example, in surveying. The analysis of industry value added is usually based on the system of national accounts. The main source of the national accounts is administrative (tax) records from enterprises and enterprise surveys which focus on corporate income and income paid mainly in formal and typical labour arrangements to workers. In music, we turn to mixed surveying because the (large) informal part of the music economy is not represented in these administrative data sources and surveys, partly because it is not organised around formal enterprises. With the combined use of LFS or a similar survey, we target to measure personal income in the informal economy. The reconciliation of personal income with the value-added concepts and employment in the informal economy with the full-time equivalent concept of the national accounts is an important task for labour economists.

We first turn to the the problem of value added and employment, and then we return to the more practical surveying questions.

## Mapping the music industry in the national accounts, satellite accounts

A satellite account is a framework of presentation for the economic data of a particular area in relation to the overall economic analysis of the central framework of the national accounts. The use of satellite accounts for education, health, tourism, environmental issues is commonplace. The primary aim of satellite accounts is to address particular needs, like monitoring community health or environmental conditions. Additionally, they provide an avenue for experimenting with novel methodologies and accounting practices.

# Data gaps

Music is a very much data-driven industry, and it was one of the first global industries that moved much of its sales to a few global digital platforms that record incredible details of information. Many data gaps in the music industry are illusory from the point of view that the data is recorded somewhere; it is “only” not processed and aggregated into formats that would be required for public policy analysis. And then we have a large informal part of the music economy where many important data, for example, costs or investments, are not recorded systematically.

The *Feasibility study* enumerates most data gaps in the Music Economy Pillar. Most European countries do not have a consistent top-line indicator like the share in GDP, gross value added, or total employment in the sector. This is the result of lacking national accounts for the music industry, which then translates into the lack of further indicators that are usually present in the system of national accounts, such as exports and imports; because we do not have a music industry total, we do not have indicators for the important sub-sectors, such as live music or the recording industry.

In Open Music Europe, the WP1 provides an exploitation pathway towards increasing the value of music rights. Our planned case studies in Hungary and Bulgaria aim to improve the valuation of music rights in these countries; our primary focus is to find the data needed for this policy intervention. Our second priority is to improve the measurement of perhaps the two most important economic indicators, i.e., various concepts of income (value added) and employment.

Our main research areas are Hungary, Slovakia and Bulgaria. In Slovakia, we have concluded a MoU. Slovakia is one of the few countries that invested into the creation of a Cultural and Creative Industries Satellite Account: we will add research, methodological and data inputs to this pioneering effort to make these accounts more usable for the music industry—this work will improve the measurement of various types of income (value added) and employment. In Hungary, Artisjus has been developing a particularly comprehensive music valuation system, which has been successfully used in Slovakia and Croatia with less detail. Our aim is to generalise this valuation method and transfer as much as possible to Bulgaria, which is perhaps the least developed music economy in the current European Union, not counting the smallest members states that do not have an economically sizable sector at all.

## European policy data gaps

In late 2015, the European Commission started a dialogue with representatives from the music sector[[8]](#footnote-71) in Europe with the aim to identify key challenges and possible ways to tackle them, including EU support. “Music Moves Europe” has become the framework for these discussions and, more broadly, for EU initiatives and actions to promote the diversity and competitiveness of Europe’s music sector in terms of policy and funding. As part of the 2018 Preparatory Action “Music Moves Europe: Boosting European music diversity and talent,” the EU commissioned the creation of the “The feasibility study for the establishment of a European Music Observatory” (Commission et al. 2020) (in short: EMO Feasibility Study.) The current call, *Towards a competitive, fair and sustainable European music ecosystem* explicitly refers to the relevance of the *Music Moves Europe* policy context.

The *Analysis of market trends and gaps in funding needs for the music sector* identified the following policy problems (European Commission, Directorate-General for Education, Youth, Sport and Culture, Le Gall, et al. 2020):

* 14 Work on the possibilities of harmonisation or facilitation of administration on diverse mobility-related concerns such as the VAT, visas, social insurance, transportation of music instruments.

The Hungarian and Slovak music industry reports showed that the VAT treatment of music is not only stifling touring, but can be seen as excessive in many countries.

* 15 Advocate for policies that protect local music- and cultural spaces, including music venues and rehearsal spaces. Such spaces are important incubators for music artists, meeting points for the sector and the general public and a strong cultural asset. Support could range from developing policy toolkits, including the “Agent of Change” and targeted funding in collaboration with local governments.
* `16` In a longer term perspective and as part of possible further regulatory developments in the EU internal market, assess the need for and feasibility of a regulatory approach to promote cultural diversity in the music sector, bearing for example in mind the precedent of the EU
* audiovisual regulatory framework (in particular, the provisions supporting cultural diversity in the revised Audiovisual Media Services Directive: requirements on the share and prominence of European works in the catalogues of on demand services, framework for Member States’ ability to impose European content investment obligations).

The *European Music Export Strategy* aims to promote Europe’s music diversity and talent beyond European borders and that enhances the competitiveness of Europe’s music sector on the international market.

Music export, as defined in this report, happens when artists and their representative professional teams and music companies gather revenue by selling their music in various forms outside of their national borders. The main music export revenue streams are: - performance fees for festivals and concerts (+ eventually merchandising) - royalties generated by live music performances, broadcasting of music in radio, streaming platforms, television etc. - recorded music revenues, from physical sales and digital revenues. - Furthermore, music export revenues can also come from sync fees (synchronizing or licensing music to various audiovisual media formats), branding and other collaborative campaigns and deals, where artists can charge fees for their personality brands.

This strategy document separately addresses the taxation problems of the sector, which also came up among the most important problems in the detailed Hungarian and Slovak analysis.

Most KPIs related to value added and employment are gross income indicators, however, the overtaxation of the music sector would necessitate the creation of gross (pre-tax) and net (after-tax) indicators, too.

The Open Music Europe project plan and grant agreement foresees the development of an open science and open data service which complements the existing statistical service of Eurostat. In partnership with the key music industry and policy partners, we will fill as much as possible from the approximately 41 data gaps within the policy context of *Music Moves Europe*, as identified by the *Feasibility Study for a European Music Observatory*. We will **develop key performance indicators** for music businesses and **policy indicators** to “better detect the performance of the European music sector and its contribution to economic and social development, as well as to sustainability.”

At the proposal stage, we made the following pre-assessment of the data availability for WP1. In the case of Pillar 1 – Music & Economy, we are usually able to locate the source of the data, and we have some experience in processing the data and bringing it to light. We have mapped many perceived data gaps to the various data harmonisation projects of GESAC and CISAC, and we will seek cooperation with these organisations and their members to find a secure and voluntary way to retrieve the data. The only data gap that we do not intent do address is the “impact of the non-profit sector”.

|  |
| --- |
|  |

|  |
| --- |
| Note |
| REPREX: Recreate and explain table |

In Europe, public policies on music are mainly the competencies of member states, who often develop policies for all creative sectors because of their similarities. Furthermore, because of the territorial nature of copyright law, the publishing and recorded side of the industry is also organised according to national markets. Both public and business policy requires most indicators *at least* on the national level. Therefore, the data gaps must be filled with national indicators.

## National policy gaps

## National policy gaps

We start the analysis of the data gaps on the national level. Cultural public policies are mainly formed on a national level, and the business policies due to the territorial nature of copyrights are usually also kept at this level. The statistical processes that provide the key economic indicators are operational on national levels, too. With few exceptions, the European data gaps cannot be filled if there are no statistical processes in place in the member states that collect the data.

We group the data gaps on a national level into two categories. - Due to the special structure of the music industry, the standard statistical products which are based on national accounts (GDP, GVA, employment, etc.) are not available for the music industry, which puts the industry at a disadvantage against other industries. - There are no statistical processes in place that would create reliable microdata and indicators for the problems of the music industry. In public policy, the music industries are often discussed together within a wider cultural and creative industry policy. The data gaps of the music industry are often not specific to music but generally these industries.

To prioritize new research into filling these data gaps, we select our pilot country, Slovakia, and its policy document to see what data is not sufficiently present. Slovakia is neither particular data rich or data poor member state. Its national statistical offices do not offer such a wide range of products as the most developed EU statistical services; however, Slovakia is one of the few countries that invested into building satellite accounts for the creative industries with the aim to start filling in the first type of the data gap (i.e., that standard key economic indicators, such as GDP share or GVA are missing.) These satellite accounts are far from ready: for example, they do not contain accounts for the music industry. Reviewing the gaps faced by policymakers and the methodological problems in making the satellite accounts truly usable for industry policy, including music industry policy, we can select research aims that can make a true impact. The main policy document is the *Stratégia kultúry a kreatívneho priemyslu Slovenskej republiky 2030* [Strategy of the cultural and creative industries of the Slovak Republic 2030] (Ministerstvo kultúry Slovenskej republiky 2023), which is based on a series of evaluations that tried to create and interpret indicators for these sectors. An important input of the strategic policymaking was the, Revision of spending on cultural“ compiled by Institute for Cultural Policy. This report comments on the problematic data presentation of the music sector and judges the data coverage insufficient. It is mainly based on the KULT surveys, which are a national, non-harmonised survey series **xxxx targeted at xxxx, with a sample size of xxxxx, collecting data on xxxx**. The several waves of the cult surveys are marred with methodological problems, for example, the survey on public events of professional music culture (KULT 16) is unreliable both because of the incompleteness of the reporting units and because of methodological inconsistencies (e.g. some festivals report attendance as the number of season tickets sold, others count the number of visitors to each concert separately). The statistics on music recordings (KULT 19) do not include all publishers, which is problematic in a sector where most music is self-released, and publishing and sound-recording activities often overlap.

The *Súbor cieľov a merateľných ukazovateľov pre kultúrne politiky na Slovensku – prvá edícia* document [I cannot find it either on the intern or in the references]

The main objective of the national cultural policy is the creation, presentation, research and preservation of the arts, creative industries and cultural heritage, resulting in a high quality and accessible artistic and cultural offer and positive socio-economic impacts of culture (IKP 2023 **cannot identify this document**).

Historically cultural policy in the Slovak Republic had not been assessed with measurable indicators like other public policies before 2021; it was seen to be difficult to objectively link specific activities in culture and art with measurable indicators. To ensure a higher quality of public policy discourse on culture, the Institute of Cultural Policy (IKP) decided to create a new strategic policy document based on what they perceived as a best practice from the United Kingdom. (Bille and Olsen 2018). This document sets measurable targets to ensure a more objective assessment of cultural policies.

The *Institute of Cultural Policy*, based on inputs from more than 200 domain experts, prepared two rounds of systemic evaluation of cultural policy objectives, related sub-objectives and measurable indicators for 16 pilot cultural policies during 2021 and 2022. In the first edition **citation**, they developed draft objectives and indicator candidates for the umbrella cultural policy and 13 sub-sectoral cultural policies with two cross-cutting cultural policies. Music is one of these sectors, but as we will see, with no basic indicator coverage (GVA, GDP, employment, etc.) and only unreliable ad-hoc coverage on industry-specific issues.

In subsequent editions, draft evaluations for other cross-cutting policies are also envisaged. One of the 13 sub-sectors is Music.

The aim of the music policy is to develop the creation, presentation and knowledge of the musical arts. Sectoral sub-objectives: 1. Develop quality original music in Slovakia. 2. Develop the accessibility of musical art, and the diverse range of musical types in Slovakia. 3. Develop current and build new audiences for music making and presentation activities. 4. Develop presentation activities abroad. 5. Explore: preserve, research and communicate cultural heritage and knowledge in the field of musical arts.

Each of these goals are given indicator candidates, and in some cases indicators. Several indicator candidates are identified as lacking in data sources, or they identify our Consortium member, SOZA, as the future data source.

After the kick-off meeting of the project, Sinus as the coordinator of the Open Music Europe project, and EUBA, SOZA and REPREX signed a Memorandum of Understanding with the *Slovak Ministry of Culture* and the *Institute for Cultural Policy* (Open Music Europe 2023). This MoU ensures that we apply the Eurostat public policy indicator harmonisation guidelines in at least one member state, i.e., Slovakia.

The policy documents highlight as a weakness a perceived closedness citing the example of a comparison between Slovakia and Czechia regarding the GDP of culture and creative industries and their export-import activities. According to this document, the per capita trade of this sector with foreign countries is 4.4 times higher in the Czech Republic. Slovakia buys much less culture from abroad and exports much less of its culture abroad (IKP 2023). We will use this example to revisit the data gap on music exports.

Given the methodological difficulties of measurement, it a part of the difference may be illusory and explained with different statistical procedures. Suppose we want to take a more granular view and extend the analysis of music export from the Slovak Music Industry Report. In that case, we have to improve both surveying and administrative sources. This will be one of the case studies that we plan on our annual meeting with the Slovak government stakeholders based on our Memorandum of Under

The starting point of our needs assessment is a critical revision of the *Feasibility study for the establishment of a European Music Observatory* (short: *EMO Feasibility Study*) and the *Stratégia kultúry a kreatívneho priemyslu Slovenskej republiky 2030* (Strategy of the cultural and creative industries of the Slovak Republic 2030, short: *Slovak CCI strategy.*)

## Business administration data gaps

The primary data gap that the feasibility study mentions is the “value of music sector” and cites the EYGM study (EYGM 2014) as a good example that produced one-off evidence. This report, commissioned by GESAC, has been partly recast since the creation of the feasibility study in 2021 (EY 2021). Neither the original study or the recast study contains any fundamental valuations of music sector. However, such valuations are commonplace in the music sector.

The European music stakeholders would like to see a solution “as a *centralised* [emphasis added by the authors] music data and an intelligence hub at [the] European level” with the creation of the European Music Observatory (Commission et al. 2020). As a Finnish example and CEEMID have shown, the inherent conflicts of interest and the presence of many microenterprises favour the incorporation of *decentralised* approaches, too (Osimo et al. 2019). The *EMO Feasibility Study* also stresses the need to learn from the CEEMID project and exploit richer open data sources, which usually require the development of open-source processing capacities. In our view, one of the shortcomings of this study is that it almost exclusively focused on public policy data gaps. Because the music industry is data-rich, a sufficient reconciliation of the business and policy administration data needs may bring to the surface many existing industry datasets that can be used for both private and public interests. Looking at the same set of evidence can improve the accountability of cultural policymaking.

The European music sector comprises tens of thousands of small enterprises, representing over a million people and at least a repertoire of millions of recordings. A bottom-up valuation of European music is not possible; however, building up valuations bottom-up in a way that can be generalised is not only possible, but it is necessary to check the consistency and quantity of top-down estimates like the ones created by EY for GESAC.

In Open Music Europe, we want to facilitate better cooperation between in-house, business valuations and public policy, and macro-level valuations with focusing on aspects of the data gaps that can help both businesses valuations and public policy valuations. The CEEMID partners and Consolidated Independent have piloted a novel approach in the Central European Music Industry Report by taking a similar view on the music businesses as stock- and bond-market indexes take on small investors (Antal 2020). The universe of royalty-earning music assets is well over 100 million on most global DSPs, and almost no European stakeholder has a sufficiently large share in this actively traded portfolio that they can adequately understand changes of the main economic fundamentals that change valuations: demand for the use of these assets, or the price paid for the use.

|  |
| --- |
| Observation of typical use quantities |

This pilot aimed to create a basket of observable assets that well represent the entire universe in a similar way as equity and bond indexes are created. The original report only contains typical use values and prices and does not explicitly compute the price. Reprex, with the approval of Consolidated Independent, made the computed prices available in United Kingdom’s Digital Earnings in the Digital Era project that aimed to recast the UK’s music IP policies.

|  |
| --- |
| Average price movements for the typical baskets of independent songs |

In Open Music Europe, we will try to build further on this pioneering work to produce consistent statistical indicators of industry prices and quantities, which in turn are critical inputs to valuation models that can determine shadow prices and help re-pricing uses where remuneration has been falling compared to earlier, perceived fair levels. The creation of these indicators can benefit both business users and public policymakers, and we hope that this will motivate data sharing.

## Pilot country: Slovakia

|  |
| --- |
| Warning |
| EUBA to introduce the Slovak CCI strategies in the context of the European CCI policy and Music Moves Europe. What is special about Slovakia? What is similar? What is the history of CCI/music policies in Slovakia. |

# Data sources

Open Music Europe is building an open statistical infrastructure that is compatible with the national statistical infrastructures of the EU/EEA/Candidate member states but is based on voluntary industry cooperation. We are building a similar framework that national statistical offices have in Europe, but at a smaller, cheaper, more flexible scale and on a different legal basis.

* We are collecting data using similar statistical processes to statistical offices but based on the voluntary organisation;
* Based on our MoU in Slovakia, we are exploring the possibility to improve national statistical office processes for a better combination of voluntary industry and mandatory official statistical data;
* We are harvesting secondary microdata and processed statistical data sources based on the Open Data Directive.

## Primary data sources: surveys

As our Data Management Plant indicates, we manage data similarly to official statistical processes.

|  |
| --- |
| The statistical infrastructure of indicators, DOI: https://doi.org/10.6084/m9.figshare.23600571 |

* We collect enterprise, mixed and personal **survey data** with questionnaires and procedures that are ex ante harmonised with existing European survey programs, particularly. LFS, AES, EU-SILC, Eurobarometer (natural person units), and the SBS national structural business surveys (enterprise units).
* We are tapping into **administrative records** (i.e., consistent data sources originally not intended for statistical purposes.) In official statistics, this means access to tax records. In our case, this means access to royalty accounts in WP1 and voluntary access to the general ledger of the enterprises bookkeeping.
* We are experimenting with similar data sources, such as data harvested regularly from APIs, that Eurostat also considers **“experimental”** statistical processes.

### Labour Force Survey (LFS)

Our most important survey is the LFS survey, harmonised across the European Union. The EU labour force survey (EU-LFS) is conducted in all EU countries, 4 candidate countries, and 3 European Free Trade Association (EFTA) countries. EU-LFS microdata for scientific purposes currently contains data for all EU countries, as well as data for Iceland, Norway, Switzerland, and the United Kingdom (up to third quarter of 2020).

The OECD Manual on *Measuring the Non Observed Economy* endorses the a combination of LFS surveys with in-depth more specific surveys, such as the Digital Music Observatory/CEEMID music professional survey that we want to further develop:

“Monitoring the number and characteristics of the persons in the informal sector and the conditions of their employment and work can be achieved by periodically including a few additional questions pertaining to the informal sector definition in an existing labour force or similar household survey […] Labour force or similar household surveys are often conducted at a higher frequency than specialised, in-depth informal sector surveys. Thus, the data obtained from the former concerning the evolution of labour inputs in the informal sector can be used to extrapolate data from the latter […]” (International Monetary Fund (IMF) 2002, 170).

Similarly, the manual on the same topic of the *International Labour Organization* suggest to take the LFS as a starting point:

“There are many advantages to including the measurement of both informal employment and employment in the informal sector in a labour force survey or a household survey that includes the labour force as a topic These include the relative ease with which the topics can be added to an existing survey, cost-effectiveness, conceptual coherence with other labour force statistics, and the analytical possibilities offered by the collected information.” (International Labour Organization (ILO) 2013)

Methodologically, this means an ex ante and ex post survey harmonisation task (in T1.2 and T1.3) between the Slovak LFS survey and the Digital Music Observatory Music Professionals survey.

Nonetheless, a standard LFS is not suitable for us as a primary data source. The LFS records the economic activities of participants on On 1-digit precision level (NACE coding) and at 3-digit level regarding ISCO—this is insufficient prevision for identifying participants whose activity counts into the employment and production of the “music industry”.

Because NACE does not have a music industry group or class, we find the employment or economic performance of the sector in various parts of NACE. In case we have at least four-digit coding of NACE, we find in a homogeneous form a section. If we can divide the J section, and division 59 into J591 film and television production and post-production activities and J592: Sound recording and music publishing activities. This is however a very small part of the music professionals; and many statistical products do not go down to 3- or 4-digit precision because of the high decentralisation of the industry, and that much of the industry is part of the *informal economy*.

The problematic NACE division is R90, which is more important for the music industry than J592 but less clearly connected to music. It has only one one group, R90.0, which is further divided into four classes: R90.0.1—Performing arts; R90.0.2—Support activities to performing arts; R90.0.3—Artistic creation; R90.0.4—Operation of arts facilities. Each of them can contain music activities, however, they are mixed with theatre, movie, dance activities.

Regarding employment, the *International Standard Classification of Occupations* (ISCO) is an International Labour Organization (ILO) classification structure for organizing information on labour and jobs. It is part of the international family of economic and social classifications of the United Nations. Filtering by ISCO codes may help, however, there is only one “clean” ISCO code that contains music only workers, 2652. These artistic roles (musicians, singers and composers) are of primary interest, but as we have stated in the *Slovak Music Industry Report*, unlike classical and jazz music, popular and folk music is mainly learned via *informal learning techniques* which do not lead to certification and qualifications defined in ISCO. Generally, the mapping of artistic roles (not only in music, but other creative industries), requires a special occupational questionnaire that incorporates informal and not-school based qualifications.

The bigger problem with 2652 that it does not cover the majority of the industry, i.e., persons working in non-artistic roles, for example, conducting activities like R90.0.2—Support activities to performing arts and R90.0.4—Operation of arts facilities.

The way CEEMID handled this problem in the Hungarian, Croatian and Slovak surveys that it included an ISCO-based but far more detailed coding of activity roles that the respondent was fulfilling. For example, we divided the artistic activities of 2652 into job roles that are easier to identify with for creators, such as composer, singer-songwriter, performing musician who is not composing, DJ who produces own music, etc.

The ISCO-based filtering of individuals in an LFS sample is problematic enough in artistic roles, but gets even more difficult in managerial and technical roles. The CEEMID/DMO surveys created an ISCO/NACE based classification with descriptions to technical, managerial and other support roles that align well with R90.0.2—Support activities to performing arts and R90.0.4—Operation of arts facilities. For example, we created categories for transporters and drivers; transporting orchestras and bands usually requires special knowledge, vehicles and in some European cities, special licences—a band has enough equipment on tour to qualify as heavy truckload but travels with many artists and technicians to meet thresholds of uncharted bus services. Obviously, it makes no sense to try to map professional drivers to the music industry without filtering out in a survey drivers whose activities are particularly aimed and specialised for the music industry.

Because Slovakia uses the LFS for satellite accounting in CCSI, we believe that they have overcome some of the obstacles of using LFS for this purpose; our intention is to review these practices and make them more suitable for the music industry.

Our aim in Open Music Europe is the creation of a sufficient subset of ex ante harmonised LFS questionnaire items in a database that can be ex post harmonised with LFS-based (official) statistical, and our own surveys.

1. Identify questionnaire items in the previous year’s Slovak LFS questionnaires, and check their availability in various EU countries, with particular attention placed on Hungary and Bulgaria for replicability.
2. Create a multi-language, open source, linked database of these questionnaire items.
3. Place the questionnaire items on our surveys (in T1.2, T2.2 and T3.2).

|  |
| --- |
| Warning |
| Since the SOSR claims that it has constructed the cultural satellite accounts on the basis of LFS, I assume that they followed the OECD guidelines and added extra precision and weighting to the cultural sectors. We need to find out how they conducted the LFS that they used for this purpoes. |

### Cultural Access and Participation (CAP)

CEEMID used extensive personal survey harmonisation to measure music access and participation; this is critical information about zero-price music, such as radio, television, ad-supported streaming, and illegal and home copying. We want to follow the CEEMID practice as the best practice, which followed the best surveying practice identified by the ESSNet-Culture working group of the European Statistical System in the general cultural access and participation (CAP) framework. The CEEMID questionnaires adopted the CAP framework for the music and audiovisual cultural domain.

CEEMID has used questionnaire items that were standardised with the methodology created by the ESSNet-Culture working group of Eurostat and participating EU national statistical authorities (Haan and Adolfsen 2008; Bína, Vladimir et al. 2012; Haan and Broek 2012), mainly based on pre-existing best practices developed in the Netherlands. The ex ante harmonisation of questionnaire items (the same question is asked in the same format and with the same national language translations) are one of the prerequisites of joining data from surveys taken at different times, in different countries, or by different organisations. This practice has been developed by CEEMID since 2014 and further improved by the SurveyHarmonies project of SINUS and REPREX with the help of MusicAutor, SOZA, and Artisjus in 2023. It was also the basis of the development of [retroharmonize] R language software package hosted by the rOpenGov community, organised by the University of Turku Data Science group and actively developed by REPREX. Open Music Europe will continue to develop these methodologies and tools for creating a music economy, diversity surveys and collecting data on the societal and sustainability aspects of music.

Unlike the earlier mentioned LFS, the CAP surveys are not part of a permanent, standardised European statistical data collection program. Instead, a CAP survey module is periodically placed on the questionnaires of various harmonised European personal surveys, such as Eurobarometer, EU-SILC or AES.

CEEMID and the MusicAIRE SurveyHarmonies project have ex ante harmonised the Digital Music Observatory CAP Survey to a great extent with Eurobarometer and to a smaller extent with other personal surveys. However, ex post data harmonisation was not carried out with other European survey metadata than Eurobarometer. In Open Music Europe, we should harmonise with AES, EU-SILC, and improve the personal questionnaire.

|  |
| --- |
| Warning |
| Eurobarometer has almost unrestricted open data access and we had already processed CAP surveys for all EU countries from this source. However, we had no microdata access for AES and EU-SILC that have less broad but deeper CAP surveys available for all EU countries and even candidates (deeper means that better and larger samples, less broad means with less questions and answer options.) |

### Enterprise surveys

Member states within the European Statistical System (ESS) enjoy some degree of freedom in producing their structural business indicators and national accounts. Some countries with developed electronic infrastructure opt for the use of more administrative data sources (i.e., statisticians receive more data from the company register and tax authorities) or the use of more surveyed data (i.e., statisticians ask the enterprises themselves directly.)

Because we are building an open, collaborative statistical framework, we tend to be more survey-oriented because we do not have authorisation and would have a hard-time to gain individual access to tax filings of music enterprises. In Open Music Europe our first step will be review the existing practice of the Slovak Republic; when transferring this method to Bulgaria or Hungary, we review if our surveying must be extended with some information points.

In Slovakia, the structural business statistics are collected by SOSR on two surveys:

* Exhaustive survey of large enterprises with questionnaire Roc 1-01
* Survey of small enterprises (sample) with questionnaire Roc 2-01

We should build a questionnaire that adapts partly Roc 2-01 to be filled out by companies in the SKMBR.

Information about the enterprise surveys are taken from [] and the Eurostat metadata information page on the Slovak Structural Business statistics[[9]](#footnote-102).

The Ministry of Culture of the Slovak Republic pursuant to Act No.540/2001 Coll. on State Statistics carries out an annual long-term state statistical survey in the field of culture (KULT). The statistical survey is governed by the programme of state statistical surveys compiled by the Statistical Office of the Slovak Republic in cooperation with the Ministry of Culture for a period of three years. The reporting units, i.e. the persons required to provide data for the State Statistical Survey, are: • state and public institutions, • self-governing regions, municipalities of the Slovak Republic, • private companies, • non-governmental organisations, churches and religious societies, and • natural persons active in the field of culture. The reporting unit is obliged by law to provide the requested data free of charge, completely, correctly, truthfully and within the time limits set.

#### Large enterprise survey Roč 1-01

|  |
| --- |
| Warning |
| EUBA: Please give a reference to the survey description and the most recent questionnaire. Please indicate which questionnaire items do you want to use and what indicators do you propose to create from them. |

The purpose of the statistical survey is to obtain information on the indicators characterizing the activity of the enterprise and its plants in the field of resource generation and allocation, financial management, employment, and the specification of economic activities for the purpose of time series recalculation. The selected indicators are specified according to the statistical classification of products by activity (CPA). The results of the statistical survey shall be used in the calculation of basic macroeconomic indicators of the system of national accounts, for the purposes of conceptual work and analytical work, to meet the needs of the information system of the Statistical Office of the Slovak Republic, the requirements of the European Statistical System and international organisations. Substantive (content) characteristics and procedures for conducting the statistical survey

|  |
| --- |
| Warning |
| SOZA: Please provide a ‘guess list’ which enterprisese my receive such a survey? I.e. that meet the size requirement for this. |

Characteristics of statistical survey variables: financial variables - financial leasing, financial ratios, assets and liabilities, acquisition and sale of fixed assets, fixed assets by type, part of intermediate consumption, equity participation and control in a foreign enterprise, supplementary information on the ultimate owner of the enterprise, selected assets and liabilities in the sectoral structure, acquisition and sale of patents; cross-sectional variables - transport variables, environmental protection - financial variables; plant indicators - gross turnover, intermediate consumption and complementary indicators, taxes, charges and subsidies, specification of selected items of gross turnover, specification of consumption of services, specification of consumption and stocks of materials and energy, specification of goods in wholesale and retail trade, specification of intangible and tangible fixed assets, employees’ income in kind, active improvement, employees and wages; in the agricultural sector - product breakdown of gross turnover indicator; sectoral indicators - in agriculture: employees and wages by main occupations in agriculture; in industry: selected indicators in industry; in construction: construction output, construction output by contractor contracts in the domestic sector - by construction direction and contracting authority, construction workers, wage resources, construction output performed by own employees according to the statistical classification of products by activity (CPA), construction output according to supply contracts in the country for new construction, reconstruction and modernisation according to the Classification of Construction, construction output carried out by own employees in the country according to the place of execution; in trade, hospitality and accommodation: retail network and hospitality network; in selected market services: structure of sales according to the location of the buyer; indicators of local units - characteristics and basic indicators of the local unit.

This is a census-like, exhaustive statistical survey. The reporting (statistical) units are enterprises registered in the commercial register, contributory organisations belonging to the sector of non-financial corporations within the meaning of the national accounts methodology with 20 or more employees and organisations with 0 to 19 employees with annual sales of own performance and goods of EUR 5 million or more, which are entered in the register of organisations of the Statistical Office of the Slovak Republic.

##### Small enterprises questionnaire Roč 2-01

|  |
| --- |
| Warning |
| EUBA: Please give a reference to the survey description and the most recent questionnaire. Please indicate which questionnaire items do you want to use and what indicators do you propose to create from them.  Critical information: when can changes be made in the statistical program, what is the annual sample size and how is the sample created. |

|  |
| --- |
| Warning |
| SOZA: Has SOZA ever received the survey. |

The purpose of the Roč 2-01 statistical survey is to obtain information on the indicators characterising small business activity in the areas of resource generation and allocation, financial management, employment and the specification of economic activities for the purpose of time series calculations. The results of the survey will be used in the calculation of basic macroeconomic indicators of the system of national accounts and for the needs of conceptual and analytical work, to meet the needs of the information system of the Statistical Office of the Slovak Republic, the requirements of the European Statistical System and international organisations.

This is a **sample survey**. The reporting statistical units are enterprises registered in the Commercial Register, contributory organisations, which are market producers, with the number of employees from 0 to 19, with annual sales of own performance and goods up to EUR 5 million, which are listed in the Register of Organisations of the Statistical Office of the Slovak Republic.

Characteristics of the proposed indicators: Financial ratios - financial leases, financial ratios, selected financial ratios, securities, assets and liabilities, acquisition and sale of fixed assets, fixed assets, part of intermediate consumption, equity participation in foreign enterprise, supplementary information on foreign capital, services to/from abroad, gross sales, intermediate consumption and complementary indicators, taxes and charges, specification of selected items of gross turnover, specification of consumption of services, specification of consumption of materials and energy, specification of goods in wholesale and retail trade, employees and wages, cross-sectional indicators - transport indicators and environmental protection - financial indicators; sectoral indicators - in forestry - outputs and land; in construction - construction output, construction output by supply contracts in the domestic sector - by construction direction and by contracting authorities according to the Statistical Classification of Construction,26) employees and workers in construction work and their wage bill; in trade, hospitality and accommodation - retail and hospitality (catering) network; in selected market services - structure of sales by location of customer.

#### KULT Surveys

|  |
| --- |
| Warning |
| EUBA The Minister of Culture has entrusted the coordination and provision of tasks related to the performance of statistical surveys in the field of culture to the National Enlightenment Centre based in Bratislava. KULT surveys focused on the music industry in Slovakia: • KULT 5-01 ANNUAL STATEMENT ON THE MUSICAL ENSEMBLE AND ARTISTIC ENSEMBLE • KULT 16 -01 ANNUAL STATEMENT ON PUBLIC EVENTS IN THE FIELD OF PROFESSIONAL MUSIC CULTURE • KULT 19-01 ANNUAL STATEMENT ON THE PRODUCTION AND DISTRIBUTION OF SOUND RECORDS OF MUSICAL WORKS  Please refer to the methodological description of the surveys and the latest questionnaire Please indicate which questionnaire items do you want to use, and what indicators do you want compute from them.  Please provide a description of the purpose, sample population (size, category, etc.) and topics of the survey. |

## Administrative data sources

Administrative data collection refers to the activities involved in collecting, processing, storing and disseminating statistical data from one or more administrative sources. In the context of national statistical productions, this usually means re-processing tax administration data, which saves resources for both the government and enterprises: whatever is already reported to tax authorities is not asked again in a survey.

In our open collaboration to create industry statistics, we do not have the legal or infrastructural means to access tax records, and usually, this would not even benefit us because national statistical authorities and Eurostat already process the information into usable indicators. The main administrative data source for Open Music Europe is the reuse of royalty accounts of individual and collective rights management organisations. We will show examples to develop this methodology further with the help of our consortium members in a way that other organisations can join in on a fully voluntary basis.

## Secondary data sources

In the last two decades, the availability of statistical data increased to the extent that non-professional users often do not find the information they need. Furthermore, statistical authorities increasingly release data that is less processed and requires statistical and domain-specific know-how to transform into a form that music professionals and researchers, or policy-makers can readily use.

Our seemingly trivial first data pipelines are building access to curated and if needed, re-processed statistical data towards high-quality statistical data sources. The rOpenGov collaboration maintained by the University of Turku, where REPREX is an active developer, provides reproducible tools to access such sources. These tools will be further developed into a statistical ecosystem with a more friendly user interface in WP4.

A good example of these tools will be used and further developed in WP3. The iotables R package on rOpenGov, developed by the leadership of REPREX, provides access to the Eurostat data warehouse’s symmetric input-output data. Symmetric input-output and auxiliary tables connect thousands of poorly usable statistical indicators into analytical tables, which can be used for various economic analyses and social or environmental impact assessments. The iotables package helps the user to bring together the necessary data from Eurostat’s data warehouse (that includes that from the European Environmental Agency) and perform data processing and algebraic transformations that result in readily-usable indicators and multipliers. This service can be seen as a middleware between data processing and data analysis: most analysts who know how to work with the Leontief- or Ghosh system to work with this data would spend days just to put together the necessary indicators from the original source.

#### Reusable microdata and public sector information

The public sector already holds an extraordinary amount of data that can contribute to improving the internal market and to the development of new applications for consumers and legal entities. The 2003/98/EC Directive established a set of minimum rules governing the re-use and the practical arrangements for facilitating re-use of existing documents held by public sector bodies of the Member States; the rules of such data access were updated in 2019 with the adoption of the *Directive (EU) 2019/1024 of the European Parliament and of the Council of 20 June 2019 on open data and the re-use of public sector information (recast)* (European Parliament and the Council 2019b).

According to the preamble of the Directive, information collected, produced, reproduced, and disseminated within the exercise of a public task or a service of general interest is an important primary material for digital content products and services, with a special emphasis on publicly funded scientific research, such as Open Music Europe, or other Horizon Europe framework funded projects. They may form data monopolies and prevent innovation, start-ups, and SMEs from entering into the Single market; for natural persons and civil society organisations, they may form an insurmountable barrier to control the political process, public policy, or engage in advocating for better policies[[10]](#footnote-120).

Because the amount of data carriers, such as digital documents containing datasets, text, and data visualisations, exceeds what humans can possibly read, curate, and analyse, the directive also emphasises the need to provide access to public sector information in open and machine-readable formats and via APIs[[11]](#footnote-121)

# Data gathering methodology

A data pipeline is a method in which raw data is ingested from various data sources and then ported to data store, for further analysis, in this case, to an open, shared, collaborative music observatory.

|  |
| --- |
| Recap: Data-to-policy workflow: Business & Public Policy Use Cases and Exploitation of Results |

We want to create a data production method that makes already available public data more usable for the purposes of music businesses, researchers, and policymakers and links further data to fill data (information) gaps. The first leg of the data-to-policy pipeline requires the creation of a statistical infrastructure, a data observatory, that can receive processed and unprocessed public and private data, link them, and offer a data pipeline for newly collected data, too.

The actual statistical collection documentation of the data belongs to T1.2 and T2.2 and T2.3; however, T1.1 and T2.1 deals with novel methods to consistently collect data.

## Data-to-policy pipeline

Open Music Europe offers a ‘data-to-policy’ pipeline, which extends the music data pipeline to processing data that is ready to use in evidence-based business and policy administration. A data pipeline is a method in which raw data is ingested from various data sources and then ported to a data store for further analysis, in this case, to an open, shared, collaborative music observatory. We extend this pipeline using reproducible research techniques, a novel application of the *Open Policy Analysis Guidelines*, and good statistical practices to support evidence-based policy analysis, scientific music research and sound business strategy building. In this last leg of the pipeline, we emphasise usability for our project’s target audiences and good documentation practices. We want to ensure that our data is high quality and well understood to support robust and correct business, scientific or policy conclusions. This usually makes processing the data into an indicator, or a set of indicators, which are often displayed as a scoreboard, dashboard, or as a part of a standardised business or policy report^[The description and development of the data-to-policy pipeline into an Open Music Observatory is the task T5.1 of the WP5 and described in further detail in (Antal 2023a)].

|  |
| --- |
| Data-to-policy pipeline for WP1 |

For the WP1, the schematic chart above shows the data-to-policy pipeline to music economy policies.

In the *European Statistical System (ESS) Handbook for Quality and Metadata Reports*, which is a European statistical standard, the production of statistical data is covered by the broader term of statistical processes used by the statistical authorities to develop, produce and disseminate statistics (European Statistical System (ESS) 2021). ESS recognises the following data collection and production processes:

* Survey: a direct collection of individual data from a sample of respondents for statistical purposes with three subtypes, depending on whether data are collected from all units, and if not, whether probability sampling or non-probability sampling is used (Probability Survey, Non-Probability Survey and Census Survey).
* Administrative data collection refers to the set of activities involved in the collection, processing, storage and dissemination of statistical data from one or more administrative sources.

The first leg of the data-to-policy pipeline requires the creation of a statistical infrastructure, a data observatory, that can receive processed and unprocessed public and private data, link them, and offer a data pipeline for newly collected data, too.

An important part of this infrastructure is the statistical register, which helps to coordinate what data should be collected from whom and with which statistical process (i.e., via a survey questionnaire or via reuse of non-statistical data, for example, data stored in royalty accounts.)

## Music industry registers

A statistical register is a continuously or regularly updated set of objects for a given population. It contains information on identification and accessibility of population units as well as other attributes which support the surveying process of the population. The statistical register should contain the current and historical statuses of the population and the causes, effects and sources of alterations in the population. Statistical register are stored in a structured database.

Many industries, particularly if they are heavily regulated, such as banking, insurance, or architecture, use registers that survey industry statistical purposes. For example, banking and insurance activities require a European licence; banking and insurance authorities keep a register of all licenced undertakings and require regular data provision. In the creative industries, architecture is usually. an activity that has high compliance requirements and architects are usually bound to some sort of chamber member membership which serves a similar purpose.

|  |
| --- |
| Note |
| The role of a bank or architecture register in simple terms is the following: we can compile any public annual report and financial report data about EU companies; if we have a public register of banks or architecture firms, we can simply select to add together the publicly available turnover or profit of the banks or firms on the bank or architecture register. If we had a similar music industry enterprise register, we could add together the turnover, value-added or profit of the music industry companies in the EU country that manages such a register. |

In the music industry, we are not aware of a similar statistical register, although music is also relatively highly regulated, and the basic infrastructure for consistent data collection is present.

The highly globalised music industry generates two important international reports: the *Global Collection Reports* of CISAC, which contains total revenues from collectively managed author’s revenues, and IFPI’s *Global Music Report*, which reports the recording (producer) side of the industry, and covers total revenues in almost all territories for producers and partly performers. The more fragmented live music industry has no comprehensive global or European report. We also do not have a truly comprehensive report on global publisher revenues that are not collectively managed.

CISAC and IFPI are global organisations, and their reports are based on an internal survey of their members. Most industry reports are member self-reported studies; apart from CISAC, in Europe, GESAC complements CISAC’s data collection, and Aepo-Artis collects data about performers. These internal data collection methods often result in datasets that are only available for their members, and in some cases, even the metadata about these datasets is closed. Either their public or private datasets are not comparable to the statistical products of the *European Statistical System* and disseminated by Eurostat or the national statistical offices, because they do not utilise standardised statistical processes, or often they do not measure standardised economic concepts (such as *price* or *net revenue* or *export revenue*.)

These reports were designed to set business targets for larger organisations, and they do not contain price or volume data, only revenue data, which allows minimal economic analysis. Their primary shortcoming is that they do not contain prices and quantities, only aggregated revenues. There are many national market studies available, but only a few of them try to quote volume or use data and price data.

CISAC and IFPI collect (rather different) international data, which is only available to their members. Because CISAC had been earlier accused of price fixing and made an agreement with the European Commission, the organisation is particularly careful about even recording price data. IFPI has a more comprehensive economic analysis; in 2008, it even published a very useful pricing guide (PwC 2008). National music industry reports are also available with variable depth of content and analysis, like the UK Music by Numbers series. These reports contain limited information for a thorough economic analysis or valuation, partly because the conflicts of interests within the national music industries, for example, among publishers and producers and producers and performers, do not allow the systematic collection and dissemination of such information.

Our Open Music Europe project grew out of the Central & Eastern European Music Industry Databases (CEEMID) initiative in 2014 (Artisjus et al. 2014), in which rightsholders from three countries attempted to solve these data problem, and bring seemingly data poor Central European countries to a level of data availability that allows better price setting or the creation of better creative industry policies or business strategies.

Music organisations usually do not possess the information that would be desirable for analysing the market from an economic point of view. Surveying rightsholders and users are very difficult, though, because neither rightsholders nor works or recordings have an authoritative description of their population. Only very advanced inverse sampling techniques (which require vast amounts of data) can reveal price and volume movements when the analyst cannot access full transactional logs.

Our Open Music Europe project grew out of the Central & Eastern European Music Industry Databases (CEEMID) initiative in 2014 (Artisjus et al. 2014), in which rightsholders from three countries attempted to solve these data problem, and bring seemingly data poor Central European countries to a level of data availability that allows better price setting or the creation of better creative industry policies or business strategies. The Hungarian, Slovak, and Croatian reports were based on statistical data created by the administrative records of the local collective management agencies, local market research, international data sources, and independent surveys. They showed that many of the data gaps identified by the Feasibility Study for the establishment of a European music observatory can be filled, but with data collection and processing needs that most national organisations alone do not possess (Antal 2015, 2017, 2019c, 2019a), and eventually we realised that data problems of more advanced, Western markets and of those future markets like Armenia’ showed very similar data/estimation problems.

The use of music in public performances (including radio and television (re)transmission, use in restaurants and other public spaces) is based on comprehensive registers of music works, sound recordings and performance identifiers with at least some mandatory coverage. While opt-out is possible from radio blanket licensing, for consistency, the repertoire that is opted-out is identified in the same framework as the licenced repertoire.

The work/recording/performer registers of collective management organisations could form the basis of an effective statistical register (similar to banking, insurance or architecture industry statistical references) with one caveat: they would require cooperation among all collective management organisations in one jurisdiction. The 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* (CRMD) (European Parliament and the Council 2014) *de facto* created the basis of such a register in Art. 21 when it created mandatory and public information disclosure rules that included “a list of the representation agreements it has entered into, and the names of the collective management organisations with which those representation agreements have been concluded.”

In some EU member states, producers and performers have one collective management organisation; in others, like Hungary, we have three separate entities for authors, producers and performers. In the Slovak Republic, we had three organisations (SOZA for authors and SLOVGRAM for producers and performers), with OZIS representing some performers but not authors and producers. If the conflicts of interest can be resolved, a strong foundation for an industry statistical register is present.

## Survey harmonisation

|  |
| --- |
| Note |
| REPREX: short text |

# Towards evidence-based music industry policies

After the 2008 world economic crisis, much attention was paid to the cultural and creative industries that weathered the storm very well and well maintained a relatively high level of employment and value creation in very difficult economic circumstances. The 2014 study on *Creating growth: measuring cultural and creative markets in the EU* (EYGM 2014) emphasised these sectors’ exceptional ability to create jobs where they are most needed: among young people with relatively low levels of education.

The in-depth national studies of the CEEMID project showed that contrary to the common belief that associate music with public funding and subsidies, music contributes above average to the public treasury. We first showed in Hungary, then in greater detail in Slovakia, that music professionals pay magnitude higher taxes than institutional investors favoured by the manufacturing-oriented economic policies of these countries.

Our in-depth studies showed a darker side of this employment flexibility with high net tax receipts: in the desired European flexicurity (flexible and secure) job market, the creative industries create overtly flexible working conditions at the expense of the well-being of music creators, technicians and managers. Music in many European countries is subject to such high levels of value-added taxes that stifle its growth and potential to create jobs. The key concept of this false job security is the high level of informality. Informal workers who do not have guaranteed sick or paid leave and perhaps no employment track record in better-compensated sectors stay in precarious working positions that European and global policymakers want to improve.

## Decent work

A very large segment of the music industry workers, at least 13.9% of the people working in artistic roles and an unknown, but presumably high rate of technical and managerial workers earns their living in the informal music and creative economy, or in microenterprises with low levels of formalisation. In these cases, even if the microenterprise’s employment form fulfils the minimum requirements of formal employment (with social security contributions and paid sick leave), it is unlikely to provide the same pensions, life-long learning, work safety protection that most European workers in larger organisations enjoy. We believe that at least half of the European music workforce is employment this highly informal state, which goes against the UN Sustainable Goals and the EU’s employment policies. Open Music Europe sees a methodological challenge in measuring the highly informal music sector, but we hope to provide data for policies that reduce the informality of the sector.

## Fair remuneration

## Excessive tax burden

Furthermore, a highly informal sector cannot bargain effectively for better industrial policies, and informal enterprises usually cannot participate in tax shelters or favourable tax instruments and end up paying unusually high effective taxes on a very hard-earned income. Both the Hungarian and the Slovak national music industry reports emphasised the overtaxation of the sector regarding the VAT. In a different context, the excessive tax burden was also emphasised in the Music Moves Europe program’s export strategy document (European Commission, Directorate-General for Education, Youth, Sport and Culture, Smidt, et al. 2020, 21–25.) The reasons are due to the sectors` inability to benefit from tax deductions, general high labour intensity, and an ineffective protection from dual taxation for touring and exporting artists (even within the EEA’s hypothetically single market.) National policies vary in how they try to tackle this problem: Some countries apply lower VAT rates for high-labour intensity sectors, or target with lower VAT rates certain cultural services. Several member states provide special VAT provisions for artists—–however, as the Hungarian and Slovak detailed studies show, this is an ineffective measure because artists are a minority of the sector’s informal workers.

Music is an important part of our shared cultural heritage and many European communities or people’s identities. We started with a total value theory to show that music has many non-use values for the community that are often not priced into music services. Neighbourhoods with access to cultural facilities can be characterised by increasing household wealth through increasing real estate prices. Europeans, despite a housing crisis, are paying a significant premium to live in cultured cities. The music ecosystem can only provide these cultural services to the community if the creators, their technical and managerial support teams earn a decent income.

Because music is a labour-intensive sector with a high level of informality and low levels of institutional external financing or capital investments, increasing the value creation in the European music ecosystem mainly requires industrial policies that target work and copyrights.

# References

Abfalter, Dagmar, and Rosa Reitsamer, eds. 2022. *Music as Labour : Inequalities and Activism in the Past and Present*. Taylor & Francis. <https://doi.org/10.4324/9781003150480>.

Antal, Daniel. 2015. ‘A Proart zeneipari jelentése. [The Music Industry Report of Proart]’. ProArt Szövetség a Szerzői Jogokért Egyesület. <http://zeneipar.info/letoltes/proart-zeneipari-jelentes-2015.pdf>.

———. 2017. ‘The Growth of the Hungarian Popular Music Repertoire: Who Creates It And How Does It Find An Audience’. In *Made in Hungary*, 1st ed. Studies in Popular Music. New York, NY: USA: Routledge.

———. 2019a. ‘Private Copying in Croatia’. <https://www.zamp.hr/uploads/documents/Studija_privatno_kopiranje_u_Hrvatskoj_DA_CEEMID.pdf>.

———. 2019b. ‘Slovak Music Industry Report [Správa o slovenskom hudobnom priemysle]’. <https://doi.org/10.17605/OSF.IO/V3BE9>.

———. 2019c. ‘Správa o slovenskom hudobnom priemysle’. <https://doi.org/10.17605/OSF.IO/V3BE9>.

———. 2019d. ‘The Competition of Unlicensed, Licensed and Illegal Uses on the Markets of Music and Audiovisual Works [A szabad felhasználások, a jogosított tartalmak és az illegális felhasználások versenye a zenék és audiovizuális alkotások hazai piacán]’. Artisjus - not public.

———. 2020. ‘Central And Eastern European Music Industry Report 2020’. CEEMID, Consolidated Independent. <https://doi.org/10.13140/RG.2.2.21450.31686>.

———. 2023a. ‘Data Pillars in the Open Music Observatory’. <https://doi.org/10.5281/zenodo.8108720>.

———. 2023b. ‘Policy Evaluation Cycle with Indicators’. Digital Music Observatory. <https://doi.org/10.6084/m9.figshare.23498441>.

———. 2023c. ‘The Statistical Infrastructure of Indicators’. Digital Music Observatory. <https://doi.org/10.6084/m9.figshare.23600571>.

Artisjus, HDS, SOZA, and Candole Partners. 2014. ‘Measuring and Reporting Regional Economic Value Added, National Income and Employment by the Music Industry in a Creative Industries Perspective. Memorandum of Understanding to Create a Regional Music Database to Support Professional National Reporting, Economic Valuation and a Regional Music Study.’

Bína, Vladimir, Chantepie, Philippe, Deboin, Valérie, Kommel, Kutt, Kotynek, Josef, and Robin, Philippe. 2012. ‘ESSnet-CULTURE, European Statistical System Network on Culture. Final Report.’ Edited by Frank, Guy. <https://ec.europa.eu/assets/eac/culture/library/reports/ess-net-report_en.pdf>.

Burke, Andew E. 2011. ‘The Music Industry’. In *A Handbook of Cultural Economics*, 2nd ed., 297–303. Cheltenham, UK ; Edward Elgar.

Commission, European, Sport Directorate-General for Education Youth, Culture, M Clarke, P Vroonhof, J Snijders, A Le Gall, et al. 2020. *Feasibility Study for the Establishment of a European Music Observatory : Final Report*. Publications Office. <https://doi.org/doi/10.2766/9691>.

Competition & Markets Authority. 2020. ‘Online Platforms and Digital Advertising’. Competition & Markets Authority. <https://assets.publishing.service.gov.uk/media/5fa557668fa8f5788db46efc/Final_report_Digital_ALT_TEXT.pdf>.

Dredge, Stuart. 2023. ‘Global Recorded Music Revenues Grew 9% in 2022 to $26.2bn Says IFPI. Music Ally’. 21 March 2023. <https://musically.com/2023/03/21/global-recorded-music-revenues-2022-ifpi/>.

ECJ. 2014. [OSA— ochranný svaz autorský pro práva k dílům hudebním os v léčebné lázně mariánské lázně as](https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX%3A62012CJ0351&qid=1690105942723).

———. 2017. [Autortiesību un komunicēšanās konsultāciju aģentūra / latvijas autoru apvienība v konkurences padome](https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX%3A62016CJ0177&qid=1690105874115).

Europe Economics & IVIR. 2015. ‘Remuneration of Authors and Performers for the Use of Their Works and the Fixations of Their Performances’. European Commission, Directorate-General of Communications Networks, Content & Technology. <https://www.ivir.nl/publicaties/download/1593.pdf>.

European Commission. 2018. ‘Proposal for a Regulation of the European Parliament and of the Council establishing the Creative Europe programme (2021 to 2027) and repealing Regulation (EU) No 1295/2013’. <https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=COM%3A2018%3A366%3AFIN>.

———. 2021a. ‘Brochure for Music Moves Europe Preparatory Action 2019’. European Commission. <https://ec.europa.eu/culture/sites/default/files/library/mme_2019_brochure_final-web.pdf>.

———. 2021b. ‘Music Moves Europe - First Dialogue Meeting. Final Report.’ European Commission. <https://ec.europa.eu/culture/sites/default/files/library/mme-conference-report-web.pdf>.

European Commission, Directorate-General for Education, Youth, Sport and Culture, A Le Gall, B Jacquemet, C Daubeuf, E Legrand, F Miclet, et al. 2020. *Analysis of Market Trends and Gaps in Funding Needs for the Music Sector : Final Report*. Luxembourg: Publications Office of the European Union. <https://doi.org/doi/10.2766/231453>.

European Commission, Directorate-General for Education, Youth, Sport and Culture, P Smidt, C Sadki, D Winkel, A Le Gall, N Saraiva, et al. 2020. *Music Moves Europe : A European Music Export Strategy : Final Report*. Publications Office of the European Union. <https://doi.org/doi/10.2766/40788>.

European Parliament. 2017. *European Parliament Resolution of 4 July 2017 on Working Conditions and Precarious Employment (2016/2221(INI))*. <https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX%3A52017IP0290&qid=1689666586977>.

European Parliament and the Council. 2014. *Directive 2014/26/EU of the European Parliament and of the Council of 26 February 2014 on Collective Management of Copyright and Related Rights and Multi-Territorial Licensing of Rights in Musical Works for Online Use in the Internal Market Text with EEA Relevance*. <http://data.europa.eu/eli/dir/2014/26/oj>.

———. 2019a. *Directive (EU) 2019/790 of the European Parliament and of the Council of 17 April 2019 on Copyright and Related Rights in the Digital Single Market and Amending Directives 96/9/EC and 2001/29/EC (Text with EEA Relevance.)*. <http://data.europa.eu/eli/dir/2019/790/oj>.

———. 2019b. *Directive (EU) 2019/1024 of the European Parliament and of the Council on Open Data and the Re-Use of Public Sector Information (Open Data Directive)*. <http://data.europa.eu/eli/dir/2019/1024/oj>.

———. 2021. *Regulation (EU) 2021/818 of the European Parliament and of the Council of 20 May 2021 Establishing the Creative Europe Programme (2021 to 2027) and Repealing Regulation (EU) No 1295/2013 (Text with EEA Relevance)*. <http://data.europa.eu/eli/reg/2021/818/oj/eng>.

European Statistical System (ESS). 2021. *European Statistical System (ESS) Handbook for Quality and Metadata Reports — re-edition 2021*. Eurostat Manuals and Guidelines. Luxembourg: Publications Office of the European Union. <https://doi.org/10.2785/616374>.

EY. 2021. ‘Rebuilding Europe. The Cultural and Creative Economy Before and After the COVID-19 Crisis. English Version’. EY. <https://www.rebuilding-europe.eu/_files/ugd/4b2ba2_1ca8a0803d8b4ced9d2b683db60c18ae.pdf>.

EYGM. 2014. ‘Creating Growth Measuring Cultural and Creative Markets in the EU December 2014’. EYGM Limited. <http://www.creatingeurope.eu/en/wp-content/uploads/2014/11/study-full-en.pdf>.

Flignor, Paul, and David Orozco. 2006. ‘Intangible Asset & Intellectual Property Valuation: A Multidisciplinary Perspective’. <https://www.wipo.int/export/sites/www/sme/en/documents/pdf/ip_valuation.pdf>.

Garzaro, Noemí Angulo, and Amaya Angulo Garzaro. 2019. ‘EU Competition Law and Fiscal Law: The Interbranch Comparision Methodology Applied to the Assessment of Unfair Prices’. *Revista Chilena de Derecho* 46 (1): 203–26.

Haan, Jos de, and Anna Adolfsen. 2008. *De Virtuele Cultuurbezoeker - Publieke Belangstelling Voor Cultuurwebsites*. SCP-Publicatie 2008/9. Den Haag, the Netherlands: Sociaal en Cultureel Planbureau. <https://archief18.archiefweb.eu/archives/archiefweb/20200311100055/https://www.scp.nl/dsresource?objectid=5c6903f1-e6ae-4e62-9a9b-6d5e1529756a&type=org>.

Haan, Jos de, and Andries van den Broek. 2012. ‘Nowadays Cultural Participation - an Update of What to Look for and Where to Look for It’. In *ESSnet-CULTURE, European Statistical System Network on Culture. Final Report.*, 397–417. Luxembourg. <https://ec.europa.eu/assets/eac/culture/library/reports/ess-net-report_en.pdf>.

Haynes, Jo, and Lee Marshall. 2018. ‘Reluctant Entrepreneurs: Musicians and Entrepreneurship in the “New” Music Industry’. *The British Journal of Sociology* 69 (2): 459–82. <https://doi.org/10.1111/1468-4446.12286>.

Hull, Geoffrey P., Thomas W. Hutchison, Richard Strasser, and Geoffrey P. Hull. 2011. *The Music Business and Recording Industry Delivering Music in the 21st Century*. New York: Routledge.

IFRS. 2011. ‘IFRS 13 Fair Value Measurement’. International Financial Reporting Standards Foundation. <https://www.ifrs.org/issued-standards/list-of-standards/ifrs-13-fair-value-measurement/>.

(ILO), International Labour Office. 2015. ‘Recommendation R204 - Transition from the Informal to the Formal Economy Recommendation, 2015 (No. 204)’. International Labour Office. <https://www.ilo.org/dyn/normlex/en/f?p=NORMLEXPUB:12100:0::NO::P12100_ILO_CODE:R204>.

International Labour Office (ILO). 2023. *Women and Men in the Informal Economy: A Statistical Update, English Edition.* Geneva: International Labour Office.

International Labour Organization (ILO). 1951. ‘C100 - Equal Remuneration Convention, 1951 (No. 100)’. International Labour Organization. <https://www.ilo.org/dyn/normlex/en/f?p=NORMLEXPUB:12100:0::NO::P12100_ILO_CODE:C100/>.

———. 1993. ‘Resolution Concerning Statistics of Employment in the Informal Sector, Adopted by the 15th International Conference of Labour Statisticians (15th ICLS Resolution on Informality, Geneva, 19‐28 January 1993)’. {ILO} Resolution. <http://www.ilo.org/global/statistics-and-databases/standards-and-guidelines/resolutions-adopted-by-international-conferences-of-labour-statisticians/WCMS_087484/lang--en/index.htm>.

———. 2013. *Measuring Informality: A Statistical Manual on the Informal Sector and Informal Employment*. Geneva: International Labour Office. <http://www.ilo.org/global/publications/ilo-bookstore/order-online/books/WCMS_222979/lang--en/index.htm>.

International Monetary Fund (IMF). 2002. ‘Chapter 10 Informal Sector Production’. In *Measuring the Non Observed Economy*, 251. Paris:France: Organisation for Economic Co-Operation and Development. <https://doi.org/10.5089/9789264197459.071>.

Kmety Bartekova, Maria. 2021. *Creative Industries and Their Economic Value*. České Budějovice: Vysoká škola evropských a regionálních studií.

Leurdijk, Adnra, and Nieuwenhuis Ottilie. 2012. ‘Statistical, Ecosystems and Competitiveness Analysis of the Media and Content Industries. The Music Industry’. 25277 EN. Edited by Jean Paul Simon. Luxembourg: Publications Office of the European Union, 2012: Joint Research Centre Institute for Prospective Technological Studies (IPTS). <https://doi.org/10.2791/796>.

Leurdijk, Andra, Sivlian de Munck, Tijs van den Broek, Arjana van der Plas, Walter Manshanden, and Elmer Rietveld. 2013. ‘Statistical Ecosystems and Competitiveness Analysis of the Media and Content Industries : A Historical Overview’. EUR 25277 EN. Edited by Jean Paul Simon. Seville:Spain: Joint Research Centre of the European Commission - Institute for Prospective Technological Studies. <https://doi.org/10.2791/7935>.

Leurdijk, Andra, and Nieuwenhuis Ottilie. 2012. ‘Statistical, Ecosystems and Competitiveness Analysis of the Media and Content Industries. The Music Industry’. 25277 EN. Edited by Jean Paul Simon. Luxembourg: Publications Office of the European Union, 2012: Joint Research Centre Institute for Prospective Technological Studies (IPTS). <http://ftp.jrc.es/EURdoc/JRC69816.pdf>.

Ministerstvo kultúry Slovenskej republiky. 2023. ‘Stratégia kultúry a kreatívneho priemyslu Slovenskej republiky 2030. [Strategy of the cultural and creative industries of the Slovak Republic 2030.]’. <https://strategiakultury.sk/wp-content/uploads/2023/06/Strategia_KKP_SR_2030_po_shvaleni_.pdf>.

Olsthoorn, Martin. 2014. ‘Measuring Precarious Employment: A Proposal for Two Indicators of Precarious Employment Based on Set-Theory and Tested with Dutch Labor Market-Data’. *Soc Indic Res* 119 (1): 421–41. <https://doi.org/10.1007/s11205-013-0480-y>.

Open Music Europe, Ministerstvo kultúry SR AND. 2023. ‘Memorandum o porozumení o využití výsledkov analýz otvorených politík v kontexte slovenského kultúrneho a kreatívneho priemyslu a sektorových verejných politík v spolupráci s konzorciom pre výskum a inovácie s názvom OpenMuse. [Memorandum of Understanding on utilizing the Open Policy Analysis results of the OpenMuse Research and Innovation Consortium in the context of Slovak cultural and creative industries and sectors’ public policies]’. <https://www.crz.gov.sk/zmluva/7645338/>.

Osimo, David, Pujol Priego Laya, Turo Pekari, and Ano Sirppiniemi. 2019. ‘A Symphony, Not a Solo. How Collective Management Organisations Can Embrace Innovation and Drive Data Sharing in the Music Industry’. Teosto. <https://www.teosto.fi/app/uploads/2020/10/27134714/a-symphony-not-a-solo-policy-brief-final-09012019.pdf>.

Puca, Antonella, and Mark L. Zyla. 2019. ‘The Intangible Valuation Renaissance: Five Methods. Enterprising Investor’. 11 January 2019. <https://blogs.cfainstitute.org/investor/2019/01/11/a-renaissance-in-intangible-valuation-five-methods/>.

PwC. 2008. ‘Valuing the Use of Recorded Music’. IFPI PricewaterhouseCoopers. <http://www.ifpi.org/content/library/valuing_the_use_of_recorded_music.pdf>.

WIPO. 1996a. ‘WIPO Copyright Treaty’. World Intellectual Property Organization. <https://www.wipo.int/treaties/en/ip/wct/>.

———. 1996b. ‘WIPO Performances and Phonograms Treaty’. World Intellectual Property Organization. <https://www.wipo.int/treaties/en/ip/wppt/>.

Zendel, Adam M. 2014. ‘Living the Dream: Precarious Labour in the Live Music Industry’. In. Toronto, Canada: University of Toronto. <https://www.academia.edu/8669488/Living_the_Dream_Precarious_Labour_in_the_Live_Music_Industry>.

1. The regulation establishing the EU’s Creative Europe program for the period 2021-2027 can be seen as the main defining document (European Parliament and the Council 2021); for a more elaborate description, please refer to the Commission document for the proposal of the regulation (European Commission 2018). [↑](#footnote-ref-34)
2. In most if not all countries, radio, a zero-price platform remains the main platform of music use. With the purchase of mechanical copies of music becoming a niche, consumer-paid music use is almost entirely associated with digital streaming with only 589 million subscribers (Dredge 2023). [↑](#footnote-ref-47)
3. This right is further elaborated by the WIPO Performances and Phonograms Treaty (WPPT). These copyright conventions are administered by the WIPO (WIPO 1996a, 1996b). [↑](#footnote-ref-55)
4. Compulsory licensing never applies to private end-users, therefore they cannot conflict with consumer protection laws and can be challenged only on limited competition law basis. [↑](#footnote-ref-56)
5. The Dutch ‘’Organisatie Strategisch Arbeidsmarktonderzoek (OSA) Arbeidsaanbodpanel’’ can be translated into English as the ‘’organisation for Strategic Labor-market research labour-supply panel’’. It is a long-established biannual survey. [↑](#footnote-ref-60)
6. International Labour Organization: *Transition from the Informal to the Formal Economy Recommendation, 2015 (No. 204)* ((ILO) 2015). [↑](#footnote-ref-65)
7. Austria, Belgium, France, Germany, Greece, Ireland, Lithuania, Luxembourg, the Netherlands, Slovakia, Slovenia, Spain and the United Kingdom. [↑](#footnote-ref-66)
8. See European Commission (2021a) about the policy-making process and objectives. [↑](#footnote-ref-71)
9. Eurostat metadata information page: *Structural business statistics (sbs)* [National metadata - Slovak Republic](https://ec.europa.eu/eurostat/cache/metadata/EN/sbs_esms_sk.htm) [↑](#footnote-ref-102)
10. “The preamble of the Directive (EU) 2019/1024 states these aims with justifications (see the legal text for full details):(36) Charges for the re-use of documents constitute an important market entry barrier for start-ups and SMEs. Documents should therefore be made available for re-use free of charge and, where charges are necessary, they should in principle be limited to the marginal costs […] (44) The re-use of documents should not be subject to conditions. However, in some cases justified by a public interest objective, a licence may be issued imposing conditions […] (69) For the purpose of ensuring their maximum impact and to facilitate re-use, the high-value datasets should be made available for re-use with minimal legal restrictions and free of charge.” [↑](#footnote-ref-120)
11. The preamble of the Directive (EU) 2019/1024 states these further aims […](34) To facilitate re-use, public sector bodies should, where possible and appropriate, make documents, including those published on websites, available through an open and machine-readable format and together with their metadata, at the best level of precision and granularity, in a format that ensures interoperability[…] (69) For the purpose of ensuring their maximum impact and to facilitate re-use, the high-value datasets should be made available for re-use with minimal legal restrictions and free of charge. They should also be published via APIs.[…](27)[…] Beside open access, commendable efforts are being made to ensure that data management planning becomes a standard scientific practice and to support the dissemination of research data that are findable, accessible, interoperable and re-usable (the FAIR principle). [↑](#footnote-ref-121)