# Slovak Comprehensive Music Database

Trustworthy AI for the Slovak Music Centre

The **Open Music Observatory** offers collaborative solutions for organizations that do not have the size, ambition, or finances to build out their team of data engineers, scientists, and statisticians. We build collaborative data programs and apps for music distribution, information management, and environmental and social sustainability.

SKCMDb: find any music ever made in Slovakia

Most music is being recommended by algorithms, not only to subscribers of YouTube or Spotify but also to radio editors, concert promoters and festival organisers. This led to the conclusion that rights management organisations (CMOs) and music information centres (MICs) must improve their practices to remain competitive and visible. Using modern data-enriching techniques, we ensure that they have the most accurate 360° views of the repertoire they represent, and we guarantee that digital streaming services and search engines are informed about precise and up-to-date knowledge.
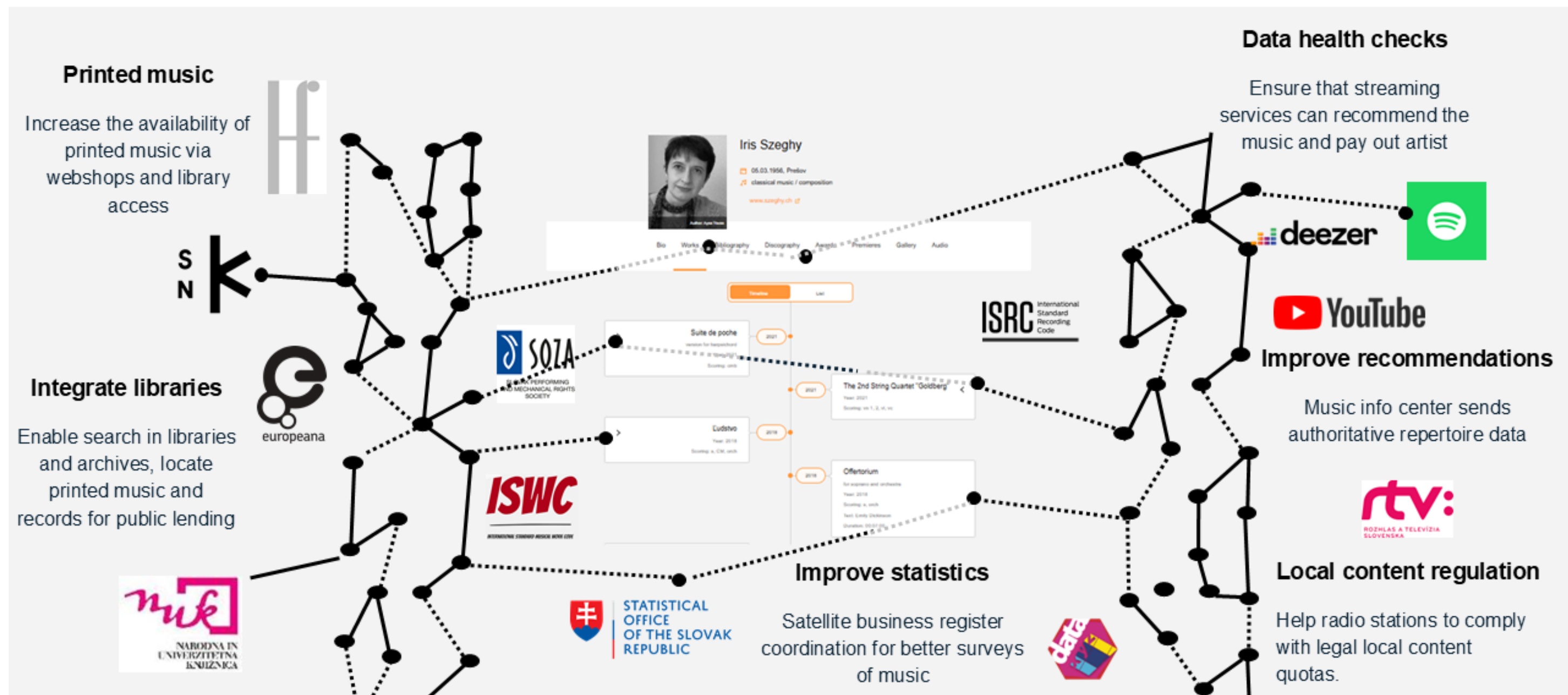
Inform intelligent software agents and applications

Nowadays, most data is downloaded and used by intelligent software agents on various digital services and platforms. To meet the modern service requirements of 2025, we needed to implement an enhanced implementation of the **European Interoperability Framework** (EIF) that extends to privately held data. We need to communicate information and metadata about Slovak music in a way that musicologists, musicians and their managers, copyright law practitioners, citizen scientists, and software agents understand worldwide.
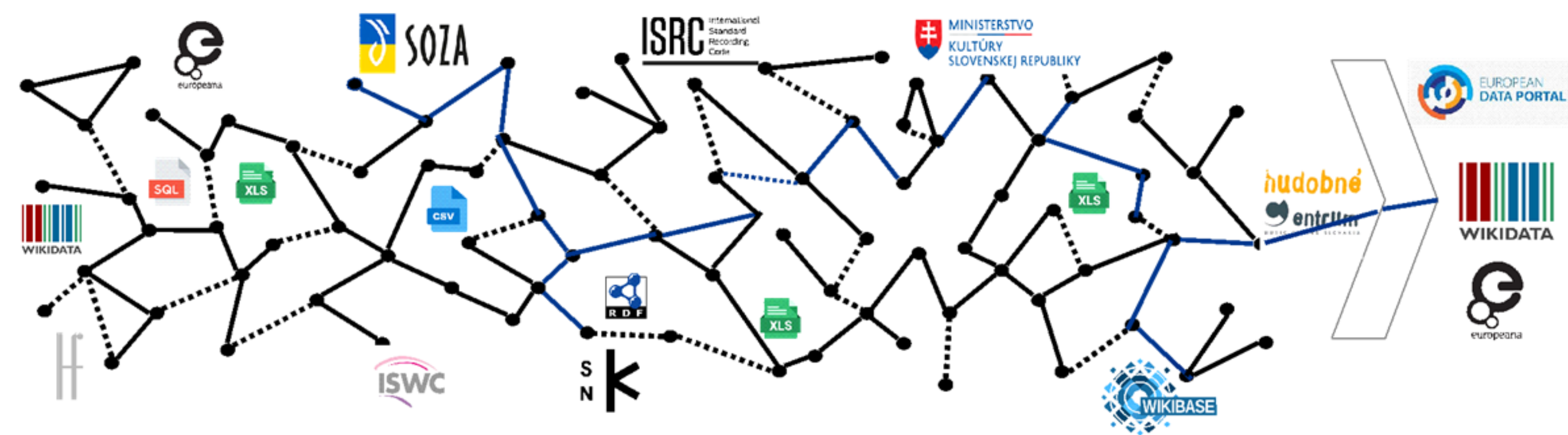
1. Data enrichment

Reprex consolidates the data Excel, CSV, SQL and other database (data file) formats of SOZA, Slovak Music Center, Music Fund, and other organisations into a graph format. We assist curators to find and improve errors in their metadata. We ensure that the resulting data is more usable for rights management, heritage management, publishing.

2. Data dissemination

We send the enriched and proprietary (confidential) data to the systems of SOZA, Slovak Music Center, Music Fund or other participants. We sent the public data to the EU Open Data Portal (statistical data), to EOSC (data of scientific value), collections data (Europeana and ECCH), and biographical and repertoire data to Wikidata and Wikpedia. This way streaming providers can use reliable data about Slovak music.

Read more about our approach ⏩ **skcmdb**

Trustworthy Artificial Intelligence

The naïve and unethical use of AI causes significant damage to many fragile music ecosystems. Informed by data feminism, we want to upgrade music databases to knowledge bases that allow us to detect algorithmic biases or adverse outcomes of music recommender and royalty management systems.

Data Sharing Space

A **data (sharing) space** is a system that integrates data whenever needed or permitted, with some labour-intensive aspects of data integration postponed until it is possible to carry them out. In our system design, we followed two important new European initiatives. In connecting cultural data, European Collaborative Cloud for Cultural Heritage (ECCCH), and the Feasibility study for the establishment of a European Music Observatory.
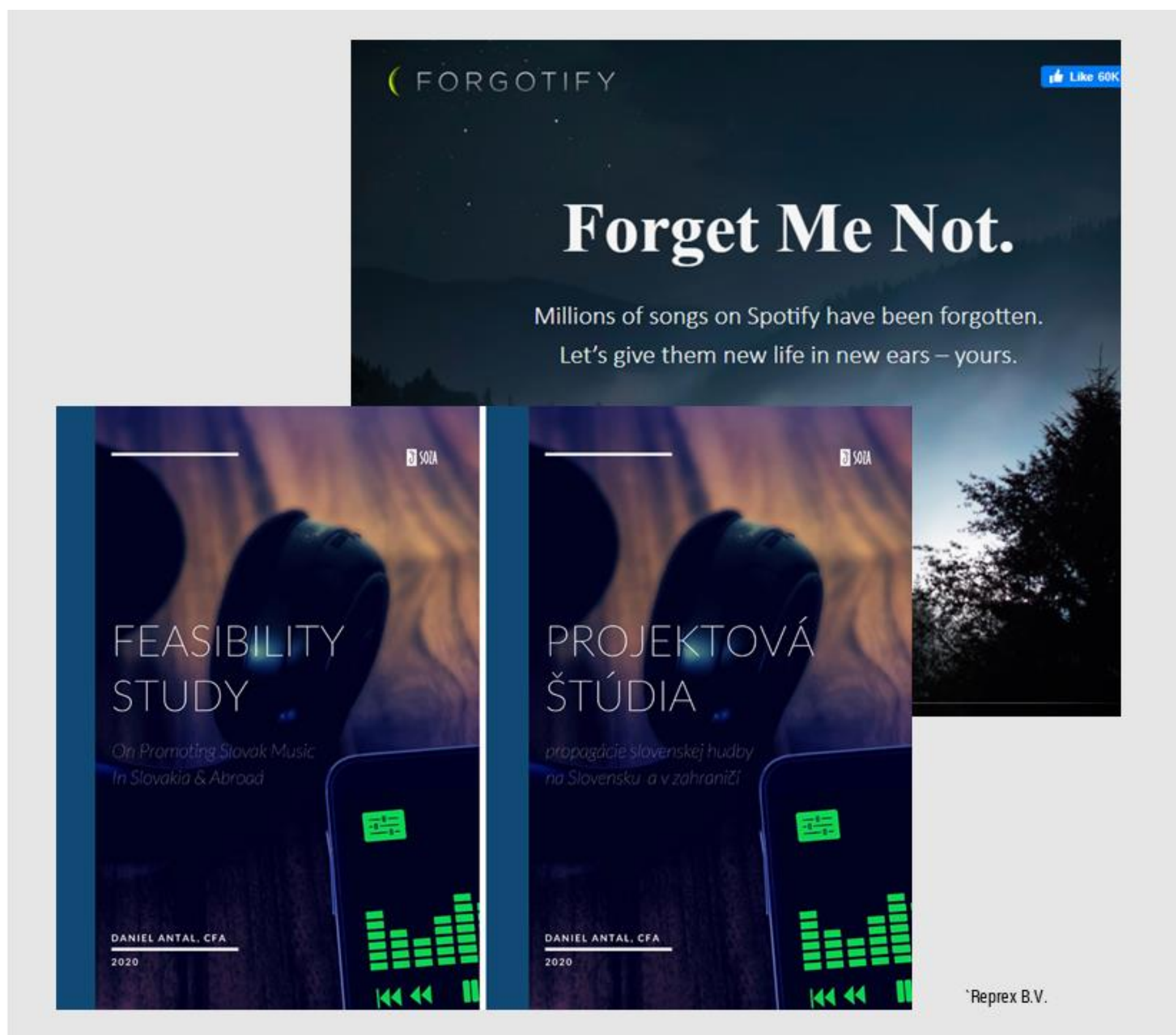
Sustainability

Why do they not recommend music from Slovakia in Slovakia for Slovak people?

How can we avoid that small repertoires lose their original market, their only market?

Findings
• Small repertoires have very low-quality data representation
• Because of low income, data improvement and documentation must not be expensive
• Public-Private Partnership is needed to solve data problems

Connect financial and ESG data with trustworthy AI ⏩ **eviota**

Data space services

We follow the BDVA-GAIA-X data (sharing) space model and the European Interoperability Framework.

Services

Unlabel: integrated data and music distribution services for non-profits and archives (instead of commercial labels).
Eviota: ESRS/CSRD compatible connected financial and sustainability reporting.
HearDis! & Listen Local: Location aware background music services.

Open Music Europe

Our **Open Music Observatory** is a functional, practical solution for building a future European Music Observatory in a decentralised, open-source way that bottom-up, utilising, improving, enriching and cross-linking existing industry databases.

Federation

We follow the European Interoperability Framework. What we do can be replicated **in any European country**; regional or genre-specific local dataspaces can join the services developed in Slovakia. We are building federation case studies with a Finno-Ugric Data Space (endangered language vocal music) and linking Jewish music heritage across borders.
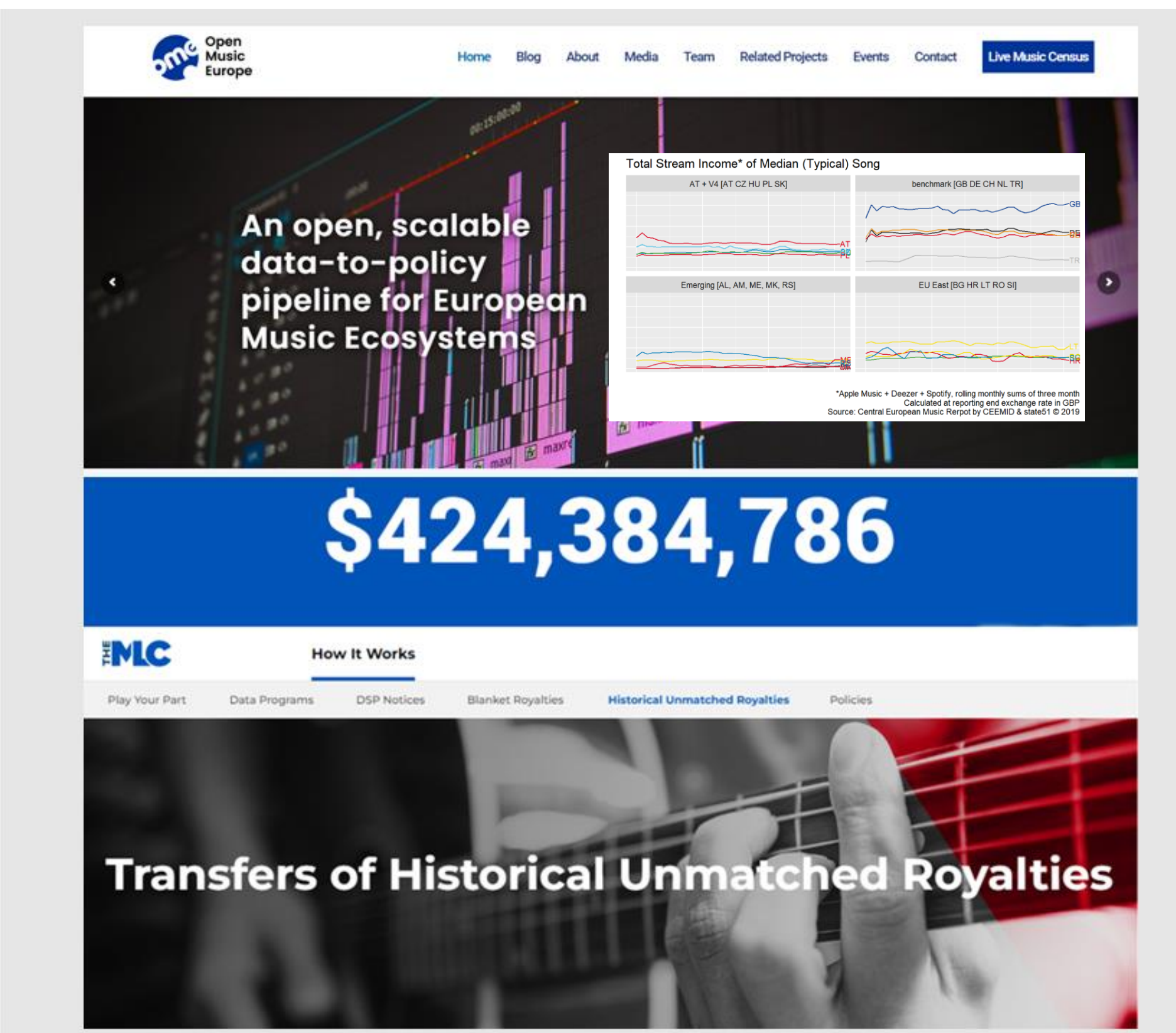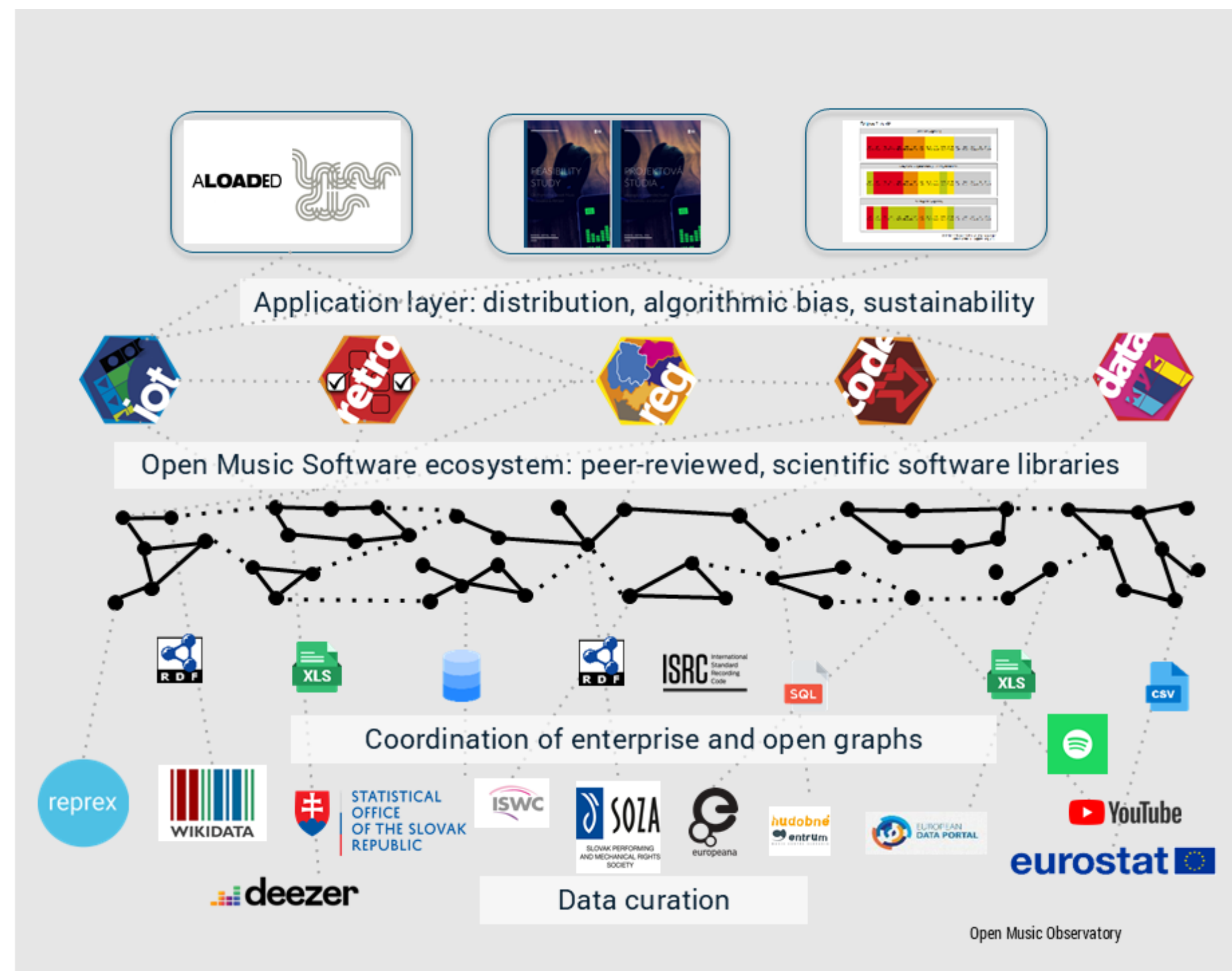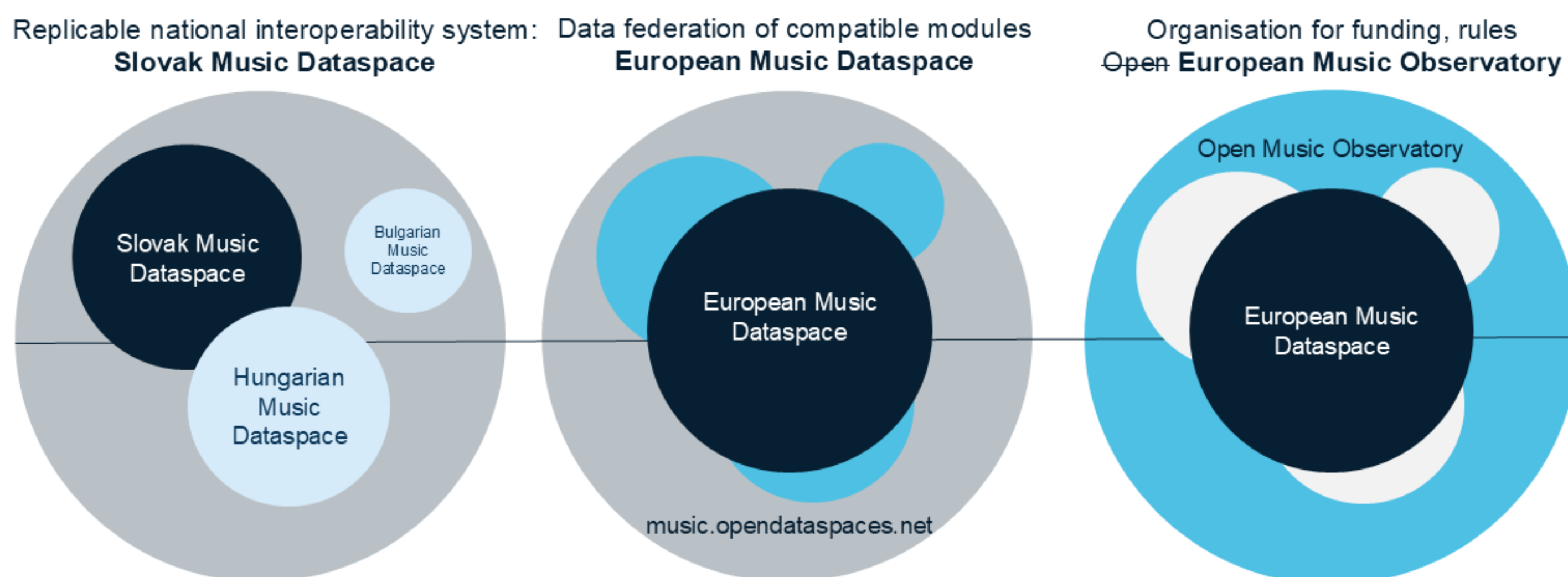
What is at stake?

Wrong metadata comes with a cost. In the first 18 months of MLC, it returned a very large amount to mainly independent artists.

Our experience shows in Slovakia that similar proportions of the royalties may be late or lost due to data problems.

Often, royalties are not collected because of the high collection cost compared to the outstanding sum. We want to make royalty collection much cheaper.

An open, scalable data-to-policy pipeline for European Music Ecosystems

$424,384,786

Transfers of Historical Unmatched Royalties

From the Slovak music data sharing space to a bottom-up music observatory

Replicable national interoperability system: **Slovak Music Dataspace**

Data federation of compatible modules **European Music Dataspace**

Organisation for funding, rules ~~Open~~ **European Music Observatory**

We create compatible data sharing systems in countries, genres, regions on a bottom up way.

The European Music Dataspace is a federation of any dataspaces that follow our model developed in Slovakia.

We are recommending the creation of a similar organisation to Europeana.

Need high-quality, internationally comparable economic, social, sustainability, gender equality data? Want to revalue your royalties and increase revenues?
⏩ **https://www.openmuse.eu/**

Questions? ⏩ **reprex.nl/contact**
Daniel Antal ⏩ **www.linkedin.com/in/antaldaniel**