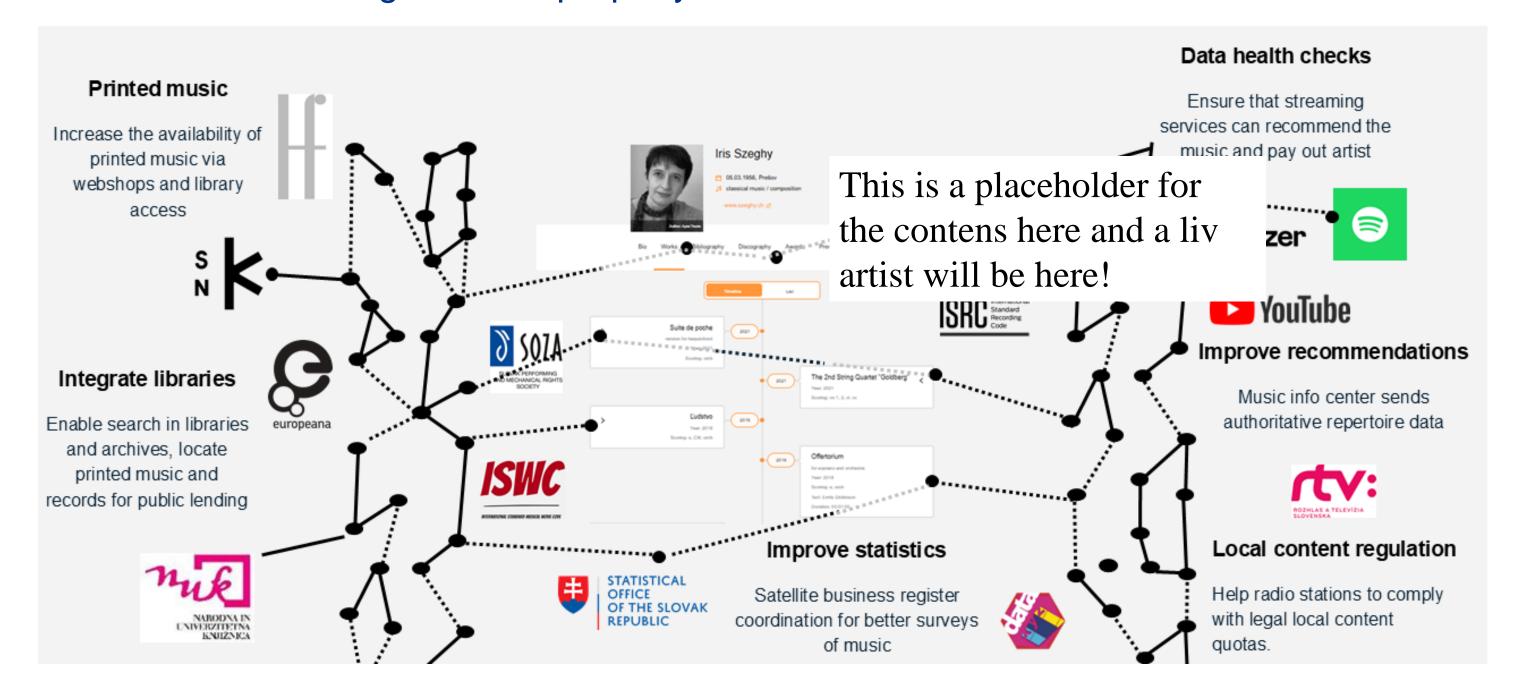
A Finno-Ugric Data Sharing Space

We started experimenting with the legal, organisational, semantic and technical challenges of creating a genuinely trustworthy, Al-supported data-sharing space that can find and connect tangible and intangible elements of the Finno-Ugric cultural universes. We were also seeking a better governance model for oversight for the custodians of these endangered, shrinking universes in their language and with little technical knowledge, partly as alternatives to the established Wikipedia to the open knowledge incubation method for small linguistic minorities.

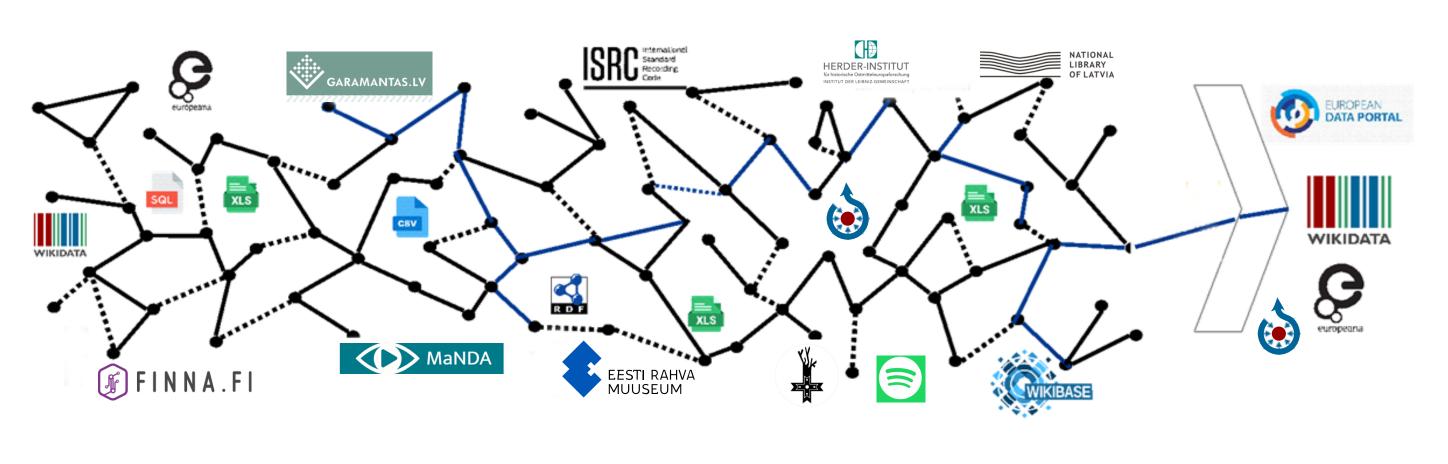
Q5 Interconnected private and public digital services in culture

We are designing a data sharing space that can confidently work with the metadata schemas, ontologies of all GLAM institutions (public libraries and archive, museums) as well as private services like Bandcamp, YouTube, Flickr, Spotify, name registration services, or radio playlisting services. Applying the European Interoperability Framework extended to privately-held data, we ensure that our users have an accurate 360° view of the digital heritage in their custody or interest, and we guarantee that research or streaming services properly use the elements of these cultural universes.



Q1 Which recordings of contemporary musical work and traditional music were released in the Liv and Samoyedic languages in 2012?

A data (sharing) space is a system that integrates data whenever needed or permitted. The Statistical Data and Metadata eXchange, European Open Science Cloud, Europeana, the European Collaborative Cloud for Cultural Heritage (ECCCH) will be connected with private systems like Wikidata, Wikimedia Commons, the Spotify or YouTube API. Semantic interoperabilty means that our system understands public and private cultural APIs.



1. Data enrichment

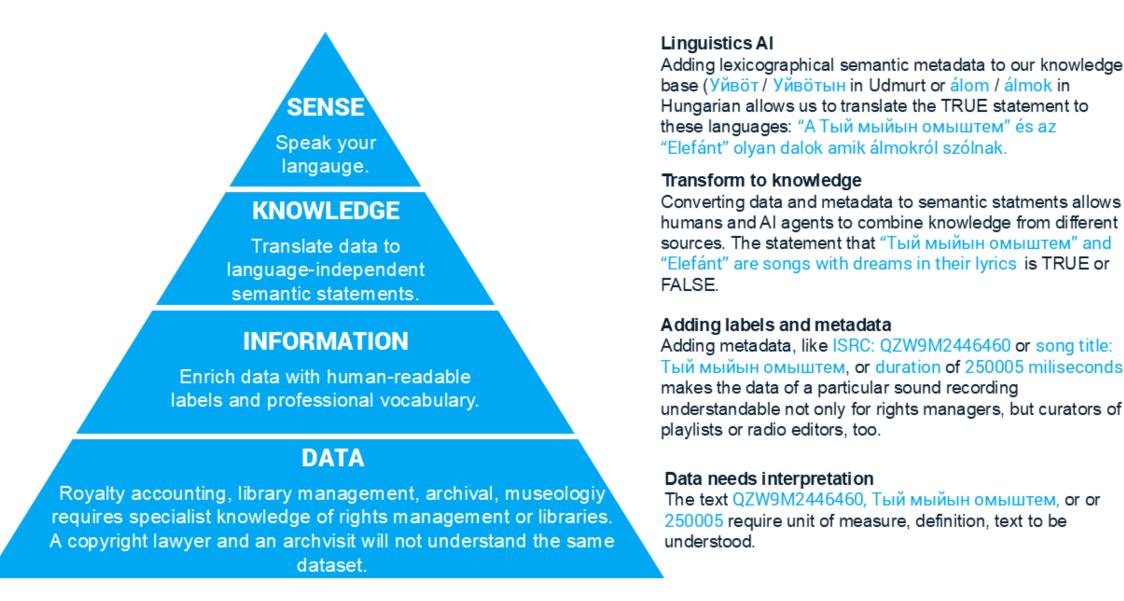
A data sharing space assist curators to find and improve errors in their metadata. We ensure that the resulting data is more usable for rights management, heritage management, publishing, research. Some of this data will never be made public.

2. Data dissemination

If the participants of a data sharing space agree to make their data and knowledge openly available, we make sure that it is released in a way that it immediately usable via the EU Open Data Portal (statistical data), to EOSC (data of scientific value), collections data (Europeana and ECCCH), and via Wikidata and Wikimedia Commons.

Q3 Which songs refer to dreams in their title or lyrics, regardless of the Finnougric language used?

Starting with a playlist dataset of songs on Spotify, we enrich it with metadata in a that we can serve first language-independent, then language-specific inferences and queries. In our conference presentation we will explain this by helping a curator who in our 14 language playlist wants to find songs about "imagining events while sleeping" or about a "dream".



Finno-Ugric playlist with songs in Udmurt, Mari, Hungarian, Võro, Karelian, Finnish about

Listen to our

→ dreaming.

Adding metadata, like ISRC: QZW9M2446460 or song title: Тый мыйын омыштем, or duration of 250005 miliseconds makes the data of a particular sound recording understandable not only for rights managers, but curators of

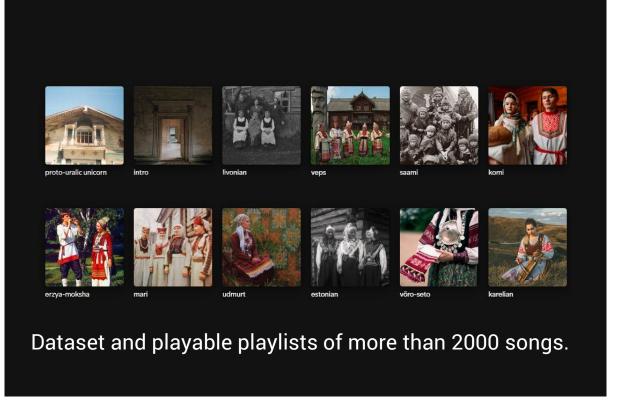
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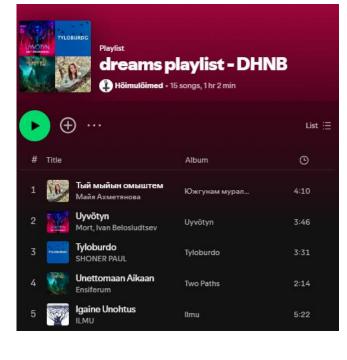
The text OZW9M2446460. Тый мыйын омыштем, or or 250005 require unit of measure, definition, text to be

Find more about us

Our demo project is volunteer work for the co-authors without funding, so our datasharing space is a prototype with few datasets. It is implemented with the Wikibase Suit and its Lexeme extension and aims for compatibility with the main features of libraries, archives, museums, digital rights management and streaming systems, and language technology applications. We placed a few but hopefully highly interesting datasets into the system that you can view using the QR codes in this poster.







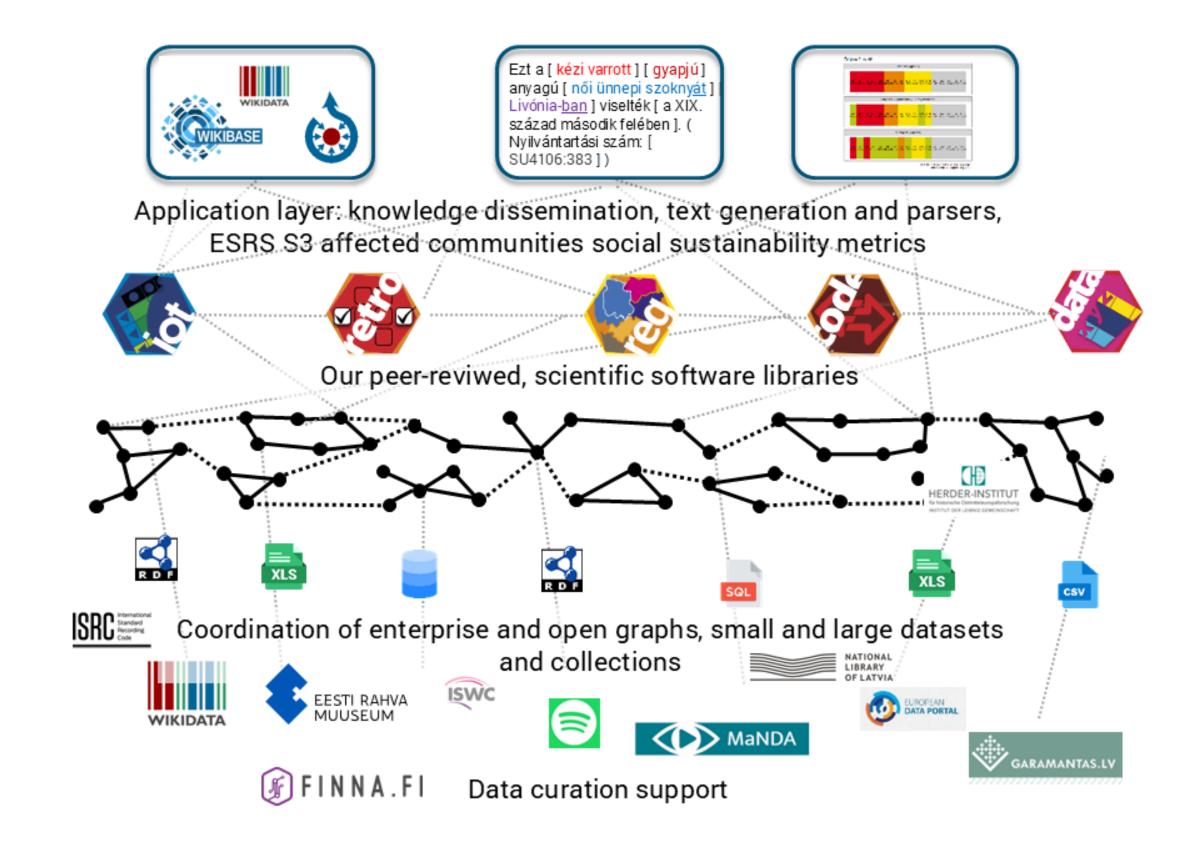
We make available the contemporary and folk music collection of Hõimulõimed, garments from TextileBase, some original private photographs and other knowledge on www.reprexbase.eu/fu

Make sure to see our presentation and meet some members of our team!



Q2 How can we find new knowledge about the historical or contemporary Khanti-Manysi music tradition?

The organisational interoperability is necessary to create systems that can support application from diverse collections and organisations. We must understand that archivists, rights managers, librarians, museologists, NGOs, private collectors, festival organisers often work with the same data but in a different job or workflow. We do not only need to understand which things belong to the Khanti-Manysi universe, but also how a librarian or a streaming service would handle that part of the cultural universe.



Q4 What should be the linguistically correct description of a curated list of Samoyedic musical pieces in the Liv language?

Our system generates semantic statements from trustworthy metadata. The semantic statements are then translated to natural language descriptions. We aim for a level of fluency that is suitable for users within the Finno-Ugric communities. This tool can improve the curation and governance of open knowledge projects that cannot recruit many reviewers with a high level of language competency to give an effective oversight for a knowledge base or an AI application.

This [female festive skirt] was [hand-sewn] from [wool] material, and it was in use by [women] on [festive] occasions in the [second half of the 19th century] in [Livonia]. (Inventory number: [SU4106:383])

Ezt a [kézi varrott] [gyapjú] anyagú [női ünnepi szoknyát] [Livónia-ban] viselték [a XIX. század második felében]. (Nyilvántartási szám: [SU4106:383])

| label | female festive skirt | női ünnepi szoknya |
|--------------------|-----------------------------------|------------------------------|
| instance of | skirt | szoknya |
| cut | traditional cut | hagyományos szabás |
| fabrication_method | hand-sewn | kézzel varrott |
| made_from_material | wool | gyapjú |
| intended_use | female festive wear in Livonia | Ünnepi viselet Livóniában |
| inventory_number | SU4106:383 | SU4106:383 |







