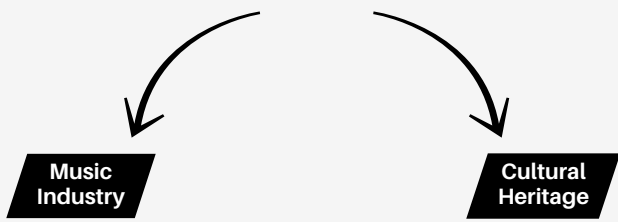# The MUSIC META Ontology

a flexible semantic model for the interoperability of music metadata

Jacopo de Berardinis, Andrea Poltronieri, Valentina Carriero, Albert Meroño-Peñuela, Valentina Presutti

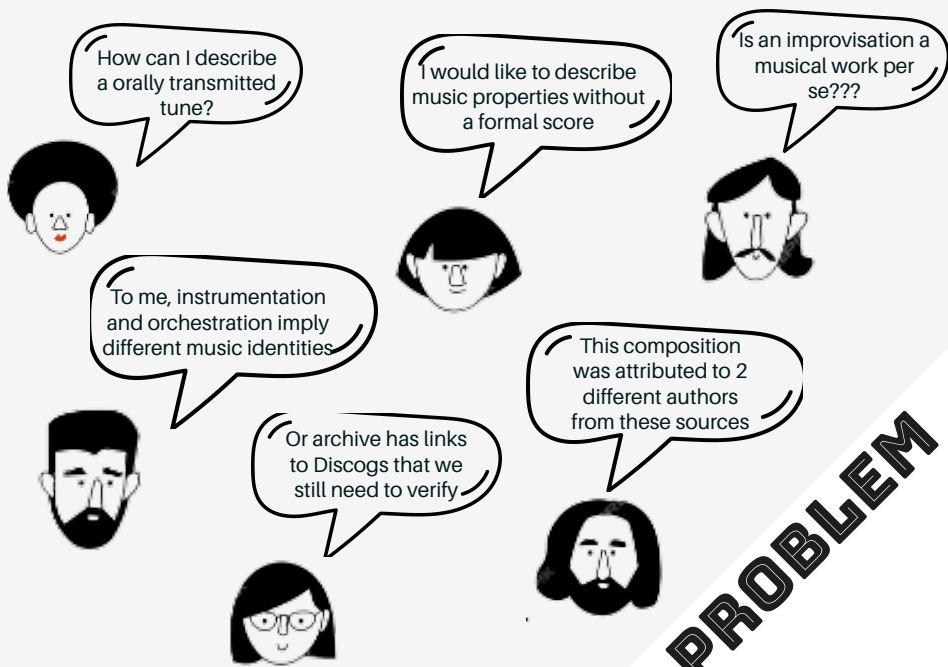*King's College London, University of Bologna*

PROBLEM

Metadata makes the music world go round...

Music metadata is used to consistently identify and describe musical works, artists, recordings, performances, etc.
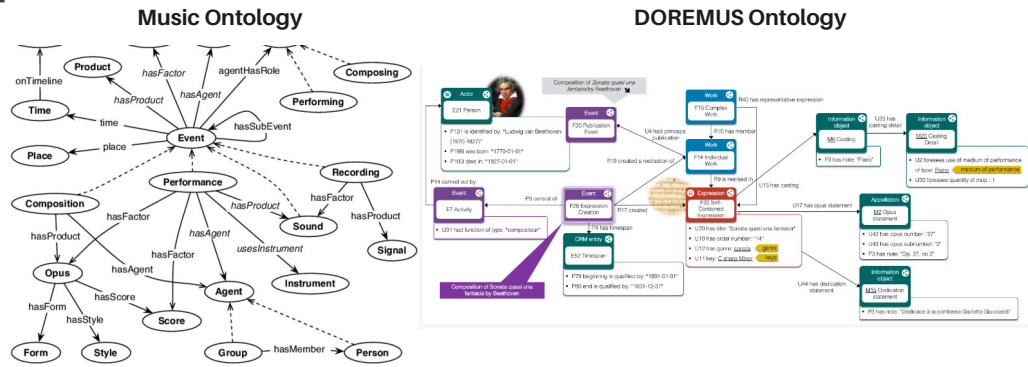
Music Industry
- Music management/distribution
- Search/recommendation support
- Artists' credit and recompensation

Cultural Heritage
- Preservation of archives and traditions
- Aid in research and music study

...but is difficult to describe and aggregate

- How can I describe a orally transmitted tune?
- I would like to describe music properties without a formal score
- Is an improvisation a musical work per se???
- To me, instrumentation and orchestration imply different music identities
- Or archive has links to Discogs that we still need to verify
- This composition was attributed to 2 different authors from these sources

State-of-the-art

Music Ontology   DOREMUS Ontology
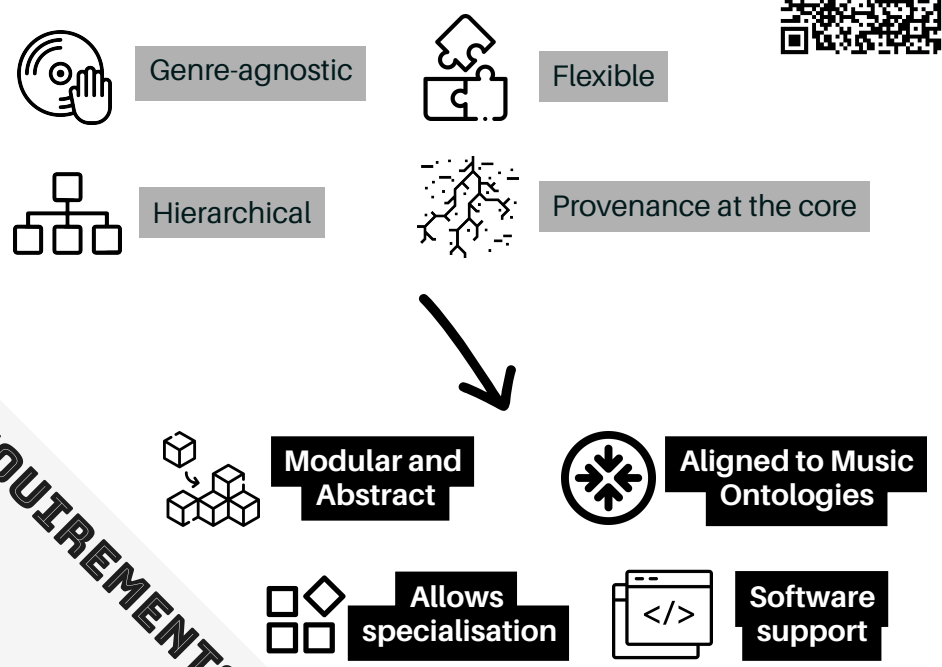
Both models are based on FRBR/FRBRoo, which is well suited for bibliographical data, but poses some probles for the description of music data.

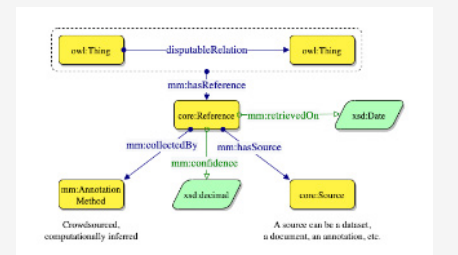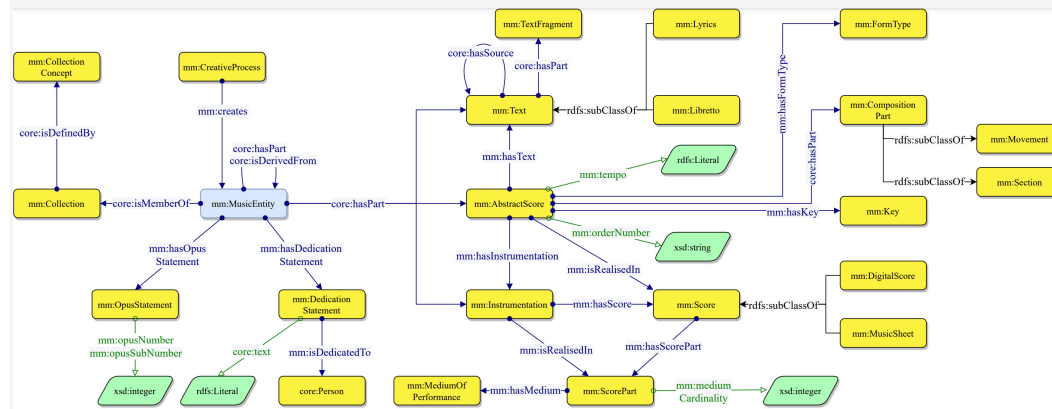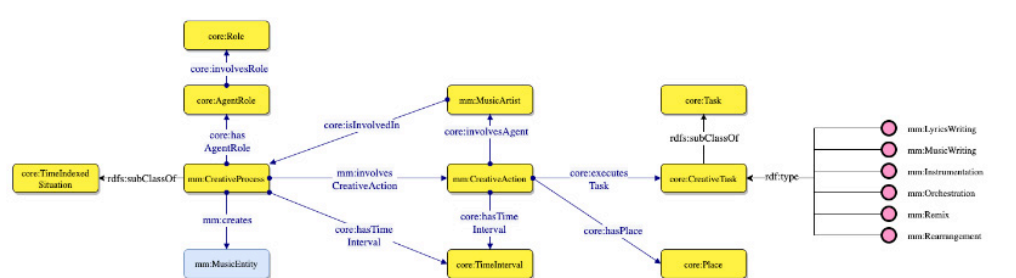## REQUIREMENTS

Music Meta Requirements

- Genre-agnostic
- Flexible
- Hierarchical
- Provenance at the core

- **Modular and Abstract**
- **Aligned to Music Ontologies**
- **Allows specialisation**
- **Software support**

METHOD

- Requirements Collection — Stakeholders, Domain Experts
- User Stories (requirements)
- Competency Questions
- Ontology Design Patterns (ODP)
- Ontology Modeling
- Ontology Testing — SPARQL

MUSIC META

Music Meta: Provenance

Crowdsourced, computationally inferred   A source can be a dataset, a document, an annotation, etc.

Music Meta: Expressivity at different levels

Music Meta: Abstraction