

LinkedMusic

Workshop III

24 July 2023



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Music Technology Area, Schulich School of Music

McGill University

Agenda

- ❖ 8:30–8:40 Introductions
- ❖ 8:40–8:50 Introductions to the LinkedMusic Project
- ❖ 8:50–9:00 Presentation by *Frans Wiering*:
“What Do Musicologists Do All Day?”
- ❖ 9:00–9:30 Open discussions on
“Challenges in Digital Musicology” or
“What Do Musicologists Want
with Technology?”
- ❖ 9:30–10:00 Coffee break

LinkedMusic: Key Concepts

- ❖ Be able to search across various music databases from one website
- ❖ Virtual Instrument Museum
 - ❖ Create a crowd-sourced website
 - ❖ Images and recordings of musical instruments
 - ❖ Name of the instrument in the local language
- ❖ Funded for 7 years (2022–2029): \$3.2M
 - ❖ SSHRC Partnership Grant
 - ❖ FRQSC Research Team Support Grant
 - ❖ McGill University

LinkedMusic: Co-applicants (7)

- ❖ Jennifer Bain
(Dalhousie University)
- ❖ Houman Behzadi (McGill)
- ❖ Julie Cumming (McGill)
- ❖ Debra Lacoste
(University of Waterloo)
- ❖ Audrey Laplante
(Université de Montréal)
- ❖ Cory McKay
(Marianopolis College)
- ❖ Laurent Pugin (RISM-Digital)

LinkedMusic: Collaborators (18)

- ❖ Rachelle Chiasson-Taylor
(Library and Archives Canada)
- ❖ Julia Craig-McFeely
(Oxford University)
- ❖ Jürgen Diet
(Bavarian State Library)
- ❖ Robin Desmeules (McGill)
- ❖ Simon Dixon
(Queen Mary, University of London)
- ❖ Jon Dunn (Indiana University)
- ❖ Andrew Hankinson (RISM Digital)
- ❖ Johannes Kepper
(University of Paderborn)
- ❖ Kevin Kishimoto
(Stanford University)
- ❖ David Lewis
(Goldsmiths, University of London)
- ❖ Jonathan Manton (Yale University)
- ❖ Kevin Page (University of Oxford)
- ❖ Alastair Porter (UPF / MetaBrainz)
- ❖ Jenn Riley (McGill)
- ❖ Patrick Savage (Keio University)
- ❖ David Weigl (University of Music and
Performing Arts Vienna)
- ❖ Susan Weiss
(Johns Hopkins University)
- ❖ Frans Wiering
(University of Utrecht)

LinkedMusic: Partners (9)

- ❖ Bavarian State Library
(Jürgen Diet)
- ❖ British Library
- ❖ Calcul Québec
- ❖ Dalhousie University
(Jennifer Bain)
- ❖ MetaBrainz Foundation
(Alastair Porter)
- ❖ RISM Digital

- (Laurent Pugin)
- ❖ Université de Montréal
(Audrey Laplante)
- ❖ University of Oxford
(Julia Craig-McFeely)
- ❖ University of Waterloo
(Debra Lacoste)

Advisory Board Members

- ❖ Barbara Dobbs McKenzie (RILM: Répertoire International de Littérature Musicale)
- ❖ Perry Roland (University of Virginia)
- ❖ Rob Sanderson (Yale University)
- ❖ Xavier Serra (University of Pompeu Fabra)

Staff

❖ Project Manager

- ❖ Marisa Goldman

❖ Postdoctoral Fellows

- ❖ Anna de Bakker
- ❖ Martha Thomae
will move to the ECHOES project (PI: Elsa De Luca) in November 2023

❖ Graduate Students

- ❖ Tim de Reuse

- ❖ Dylan Hillerbrand

- ❖ Lucas March

❖ Researchers

- ❖ Geneviève Gates-Panneton

- ❖ Jacob deGroot-Maggetti

- ❖ Wan Yi Lin

- ❖ Yinan Zhou

Undergraduate Research Assistants

❖ Returning

- ❖ David Peterman
- ❖ Hong Van Pham
- ❖ Katie Lin
- ❖ Max Zhang
- ❖ Sabrina Mansour

❖ New

- ❖ Anthony Tan
- ❖ Jacky Zhang
- ❖ Rebecca Mizrahi
- ❖ Taz Scott-Talib
- ❖ Zhanna Klimanova

LinkedMusic.ca

Google Übersetzt in: [Deutsch](#) Original anzeigen

Optionen ▼

LinkedMusic

UM

TEILNEHMER

AKTIVITÄTEN

VERWEISE

VIM

GELEGENHEITEN

KONTAKTIERE UNS

Powered by



Google Übersetzer

LinkedMusic

Das Ziel unserer neuen LinkedMusic-Partnerschaft ist die Verknüpfung von Musikdatenbanken durch Metadatenschemata: Strukturen zum Organisieren von in einer Datenbank gespeicherten Informationen. Dies wird einen großen Beitrag dazu leisten, die Online-Musiksuche auf das gleiche Niveau zu bringen, das derzeit für textbasierte Ressourcen möglich ist, und es uns ermöglichen, grundlegende Fragen über Musik und ihre Wechselwirkungen mit menschlicher Kreativität, Gesellschaft, Kultur und Geschichte zu beantworten.

Zu unseren Zielen gehören:

- Entwickeln Sie ein umfassendes internationales Metadatenschema für Musik
- Entwickeln Sie Zuordnungstools, um vorhandene Metadatenschemata unserem neuen Schema zuzuordnen
- Indizieren Sie aggregierte Metadaten, um eine gleichzeitige Suche in einzelnen Datenbanken zu ermöglichen

Für weitere Informationen wenden Sie sich bitte an [Ichiro Fujinaga](#).

L'objectif de notre nouveau partenariat LinkedMusic est de lier des bases de données musicales par des schémas de métadonnées, des structures d'organisation de l'information stockées dans une base de données. Ce projet contribuera grandement à amener la recherche de musique en ligne au même niveau de sophistication que la recherche de ressources textuelles, nous permettant ainsi de répondre à des questions fondamentales sur la musique et comment elle interagit avec la créativité, la société, la culture et l'histoire humaines.

Initial 14 Databases

1. SIMSSA DB
2. Cantus Ultimus
3. Cantus Database
4. DIAMM
5. RISM
6. Cantus Index
7. Canadian Chant Database
8. Global Jukebox
9. DTL1000 (Dig That Lick)
10. MusicBrainz
11. AcousticBrainz
12. CritiqueBrainz
13. ListenBrainz
14. MOTET Database
(Jennifer Thomas)

LinkedMusic Overall Process: Original Concept

Different Music Databases (14) with Incompatible Metadata Schemas

Task #1: Design a dynamic metadata schema: SOLMM

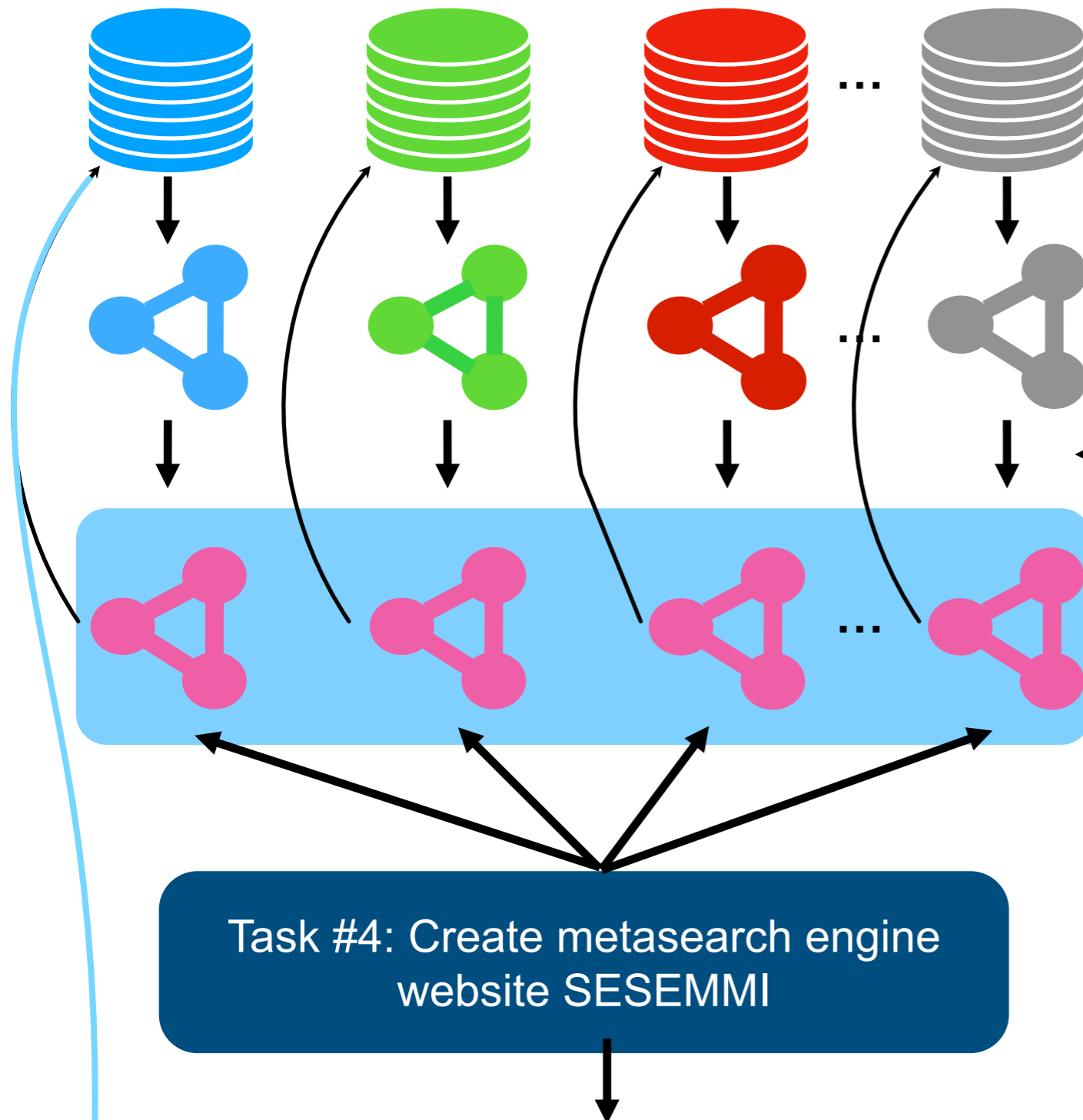
Task #2: Export metadata to Linked Data format based on the original metadata schema

Task #3: Use mapping tools to convert from the original metadata schema to our schema: SOLMM

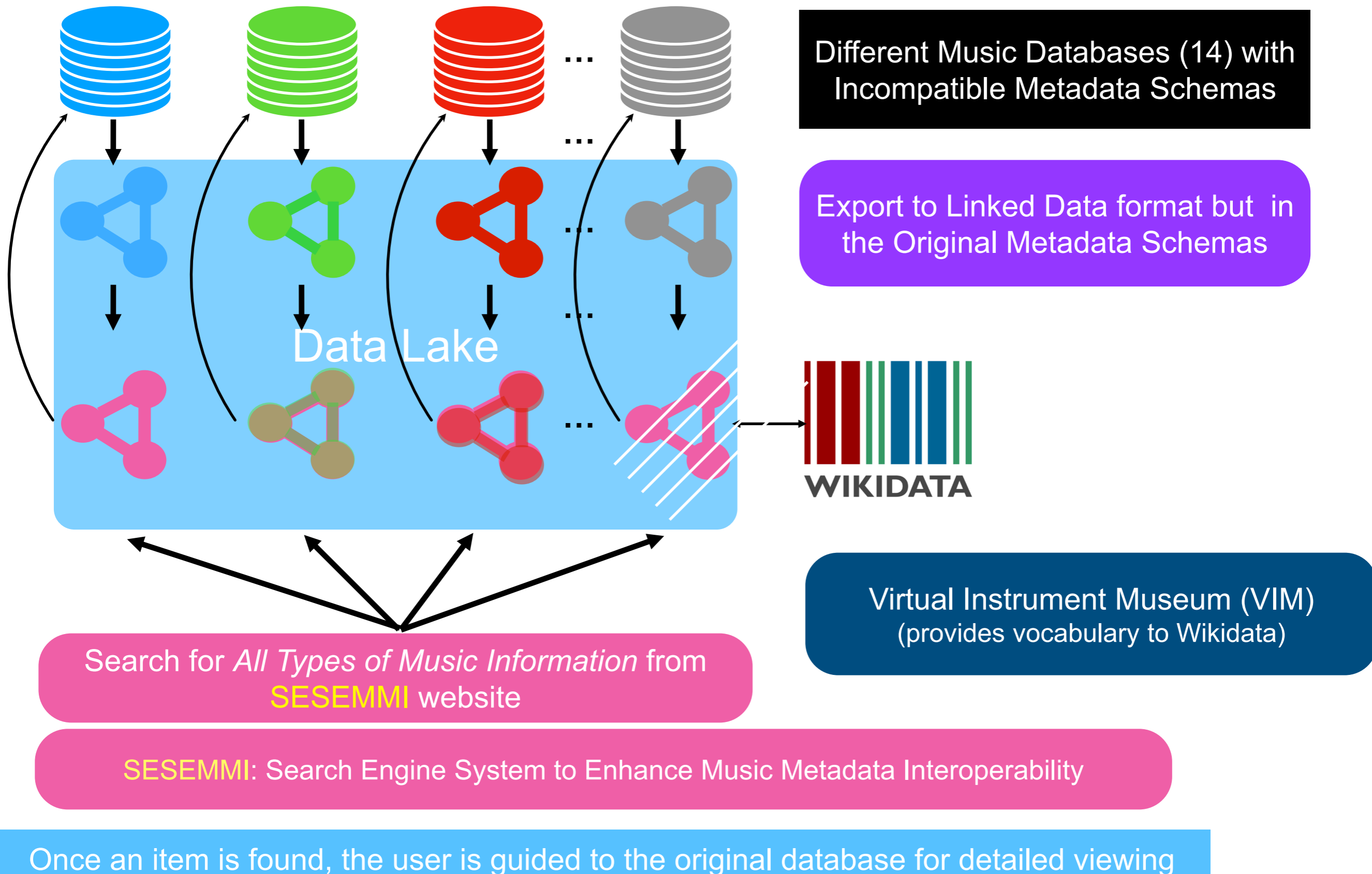
Task #5 VIM
Virtual Instrument Museum
(provides vocabulary to SOLMM)

Task #4: Create metasearch engine website SESEMMI

Once an item is found, the user is guided to the original database for detailed viewing



LinkedMusic Overall Process: New "Data Lake" Version



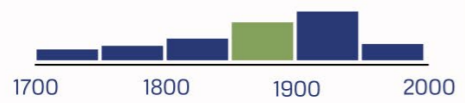
Place of Origin

Germany	215
Asia	205
Europe	182
France	130
United Kingdom	123
more ▾	






Type of Instrument

Germany	215
Asia	205
Europe	182
France	130
United Kingdom	123
more ▾	

Date of Production



1700	1800	1900	2000
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Images and recordings of musical instruments

Crowd-sourced names of instruments in local languages

Acknowledgements



Social Sciences and Humanities
Research Council of Canada

Conseil de recherches en
sciences humaines du Canada

Canada



Centre for Interdisciplinary Research
in Music Media and Technology

Fonds de recherche
Société et culture

Québec



Digital Research
Alliance of Canada

Alliance de recherche
numérique du Canada



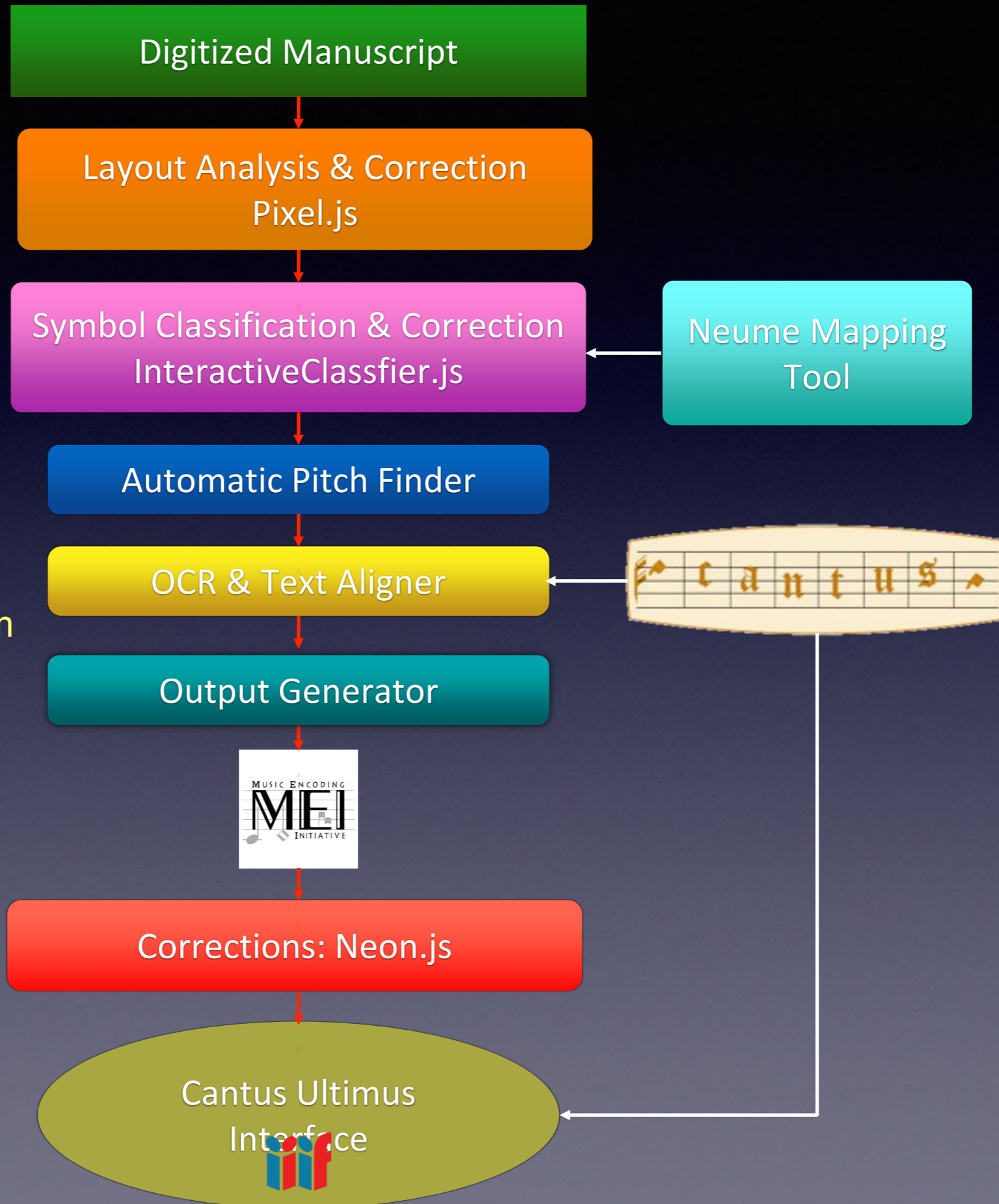
Calcul Québec

Challenges in Digital Musicology

What Do Musicologists Want with Technology?

- ❖ What is your dream research environment?
- ❖ What are your expectations using technology?
- ❖ What things frustrate you?
- ❖ What pains you?

SIMSSA Workflow for Neume Notation



Workflow Management System