DEVELOPING **MUSIC DIGITAL LIBRARY** BASED ON POLISH TRADITIONAL MUSIC ARCHIVES AND DLIBRA

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MiR MUSIC INFORMATION RETRIEVAL
DARIAH - PL Working Group

THE OBJECTIVE of DARIAH-PL Music Information Retrieval Working Group is to develop **a virtual research environment** based on the archives of Polish traditional music and dLibra Digital Library Framework, **to support researchers and educators, media professionals and artists, citizen scientists and general public** working with music content.

Content Managers

Supervised content acquisition and processing

dLibra - DIGITAL LIBRARY FRAMEWORK

Complex content structure
- Content hierarchies and object grouping
- Multi-level collections
- Many parallel media formats

Flexible metadata schema
- Descriptive, technical and administrative metadata
- Configurable schemas
- Metadata interoperability and API access

Search and browse features
- Basic and advanced search
- Facet filtering and API access
- Metadata index browsing and searching
- Collection browsing

IAPAS - POLISH TRADITIONAL MUSIC COLLECTIONS

Institute of Art PAS traditional music archives

/// Field recordings collected over a period of 100 years

/// Symbolic music representation collection

Music Archives

Phonographic collections and digitized databases Music scores and descriptors

Documents
Videos
Photographs

Symbolic music transcript acquisition and processing
- Oscar Kolberg collection – 20 000 tunes and songs

Historic field recordings digitization
- Folk Music Collecting Campaign (1950-54) – 46 000 recordings
- Archival collections held by libraries, radio and TV broadcasters, museums, regional cultural organizations, fundations, private collectors

Present field recording activities
- IAPAS regional recording projects – phonographic, audiovisual and photographic documentation

Polish traditional music

Repository

Preserving and sharing

MUSIC INFORMATION RETRIEVAL

Browsing
- Presentation of various music formats
- Presentation of related documents
- Audio analysis visualization
- Geo-browser

Search and retrieval
- Advanced multi-criteria search based on symbolic notation, audio content and metadata
- Music score and description similarity evaluation
- Audio identification

MUSIC PROCESSING

Automatic music description
- Acoustic audio analysis
- Music transcription
- Symbolic notation conversion and analysis (WebEsAC)
- Source identification and separation (instrumental, vocal)
- Song lyrics extraction

Music analysis
- Description verification and modification
- Classification and auto-tagging
- Audio alignment
- Morphologic analysis

Search results
Title: U prząśniczki siedzą
Composer: Unknown author
Lyrics: Unknown author
Title: Hej, bystra woda
Composer: Unknown author
Lyrics: Unknown author

Music Information Retrieval
Search

DWOK02
CUT[Bóg zaczyna i Bóg konczy]
REG[Sandomierskie]
TRD[DWOK02 Sandomierskie, s. 23]
KEY[K0001 08 D 3/4]
MEL[+1_+1_+3b_ +2_ +1_7_4_ 4_5__
7b6b5_6b_ 7__+1_ +1_7b_5
456b_5_ 7b__+1_ +1_5__ //]

OTHER REPOSITORIES

Citizen Scientists, Artists

Artistic inspiration, educational and cognitive use

- **Multicultural influences and similarities**
- **Folk music influence on other genres**

Researchers

Ethnomusicological research contextual, statistical, cognitive

- **Environmental influence on music style**
- **Modern folk music transformation**
- **Digital media influence on folk music performance**

OTHER REPOSITORIES

POLISH ACADEMY OF SCIENCES INSTITUTE OF ART · PSNC · UAM

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