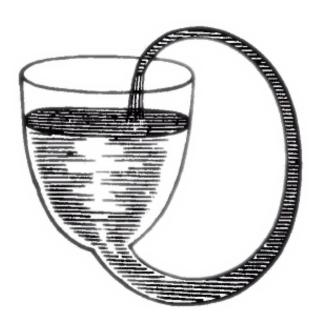


NEW PHONOGRAPH

ANTHONY ALLEN FILIP ŠÍR



Premises



The cultural heritage of sound recordings in the Czech Republic reaches back more than **120 years**. We can ensure their **preservation** through digitization, but without first cataloguing all the items it is not possible to make the most appropriate **selection**. These steps must be professionally conceived and coordinated at every **level**, including at the national level. Without the provision of **financial** and **personnel support**, this cannot be realized, and there is the risk of the **irrevocable loss** of the contents of these recordings. We would therefore also lose the possibility of **sharing** our cultural heritage internationally.

120 years of sound recording in the Czech Republic

1891 First known sound recordings on wax cylinder in Czech territory



1901 First known recordings on gramophone disc in Czech language



1923 Czech Radio (originally called Radiojournal) first broadcast



1930 First Czech recording companies (ESTA and Ultraphon) are established



1928-1934 Czech Academy of Sciences launch a project recording contemporary performers, politicians and music



1932–1935 Heavy taxation on imported recordings forces companies to form Czech branches



1946 Nationalisation of Czech recording industry Supraphon = the unifying label



120 years of sound recording in the Czech Republic

1951 Vinyl (SP) records introduced in Czechoslovakia

1961 Stereo LP records introduced in Czechoslovakia

1963 Last shellac records are manufactured in Czech Republic

1991 New legal deposit law defined

2012 Virtual National Phonothek (VNP) started the "new age"

2018 VNP is settled in National Library of Technology

2018 New Phonograph: Listening to the History of Sound





















NEWMODERN GRAMOPHONE









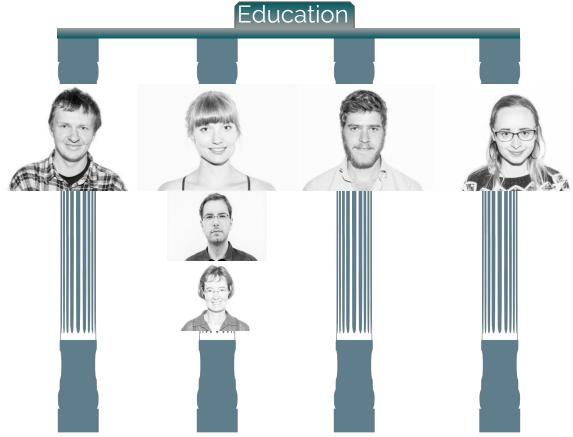


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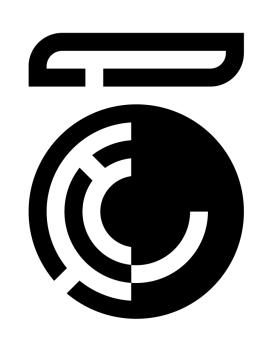




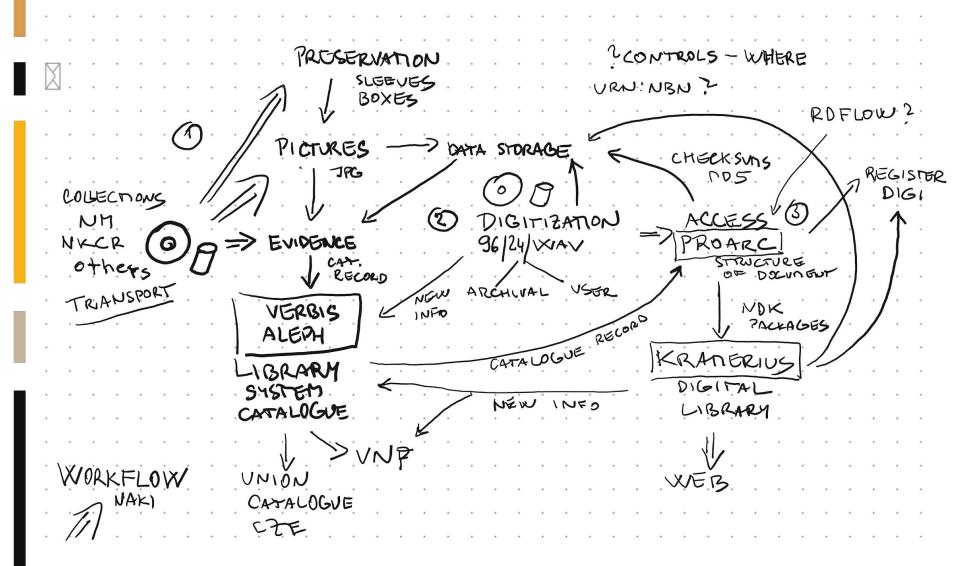
of the Czech Republic

Conservation Evidence Digitisation

Access



Workflow ver. 0.1



Carriers in the Czech Republic

There are about 1,200 phonograph cylinders and more than 26,000 gramophone records (with a diameter of 25 cm) in the collections of the Czech Museum of Music

More phonograph cylinders are held in the collections of the National Technical Museum or The Czech Academy of Sciences.

Rough estimate ~5,000 cylinders in the Czech Republic.





Conservation

Identification - Collection itemisation and condition check

Cleaning - Keith Monks, ultrasonic bath, custom-made record holder

Protection - ARSC cylinder container, custom box for container storage

Labelling - Barcode system: record, original container, new sleeves, storage





Cataloguing

Photography- Bespoke imaging studio, research into best practice for capturing images of labels; increases throughput and minimises risk of damage to carrier

- → Cataloguing Physical metadata derived from from digitised images on the basis of RDA standard in MARC21 format
 - Defined fields for audio
 - Library standard for 50 years
 - Pathway to linked open data

New model of discography and library database - development of special metadata package for sound carriers for Czech environment

Digitisation

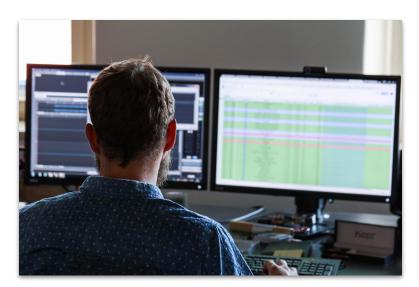
Transfer

Tool	Use
WaveLab 9	Digital Audio Workstation
Technics SP15	78 rpm records / 33 rpm and more
Technics SL-1200	
ELP Laser Turntable	
Archeophone/Endpoint/CPS1/???	Cylinder playback machine

Checksum - MD5 standard

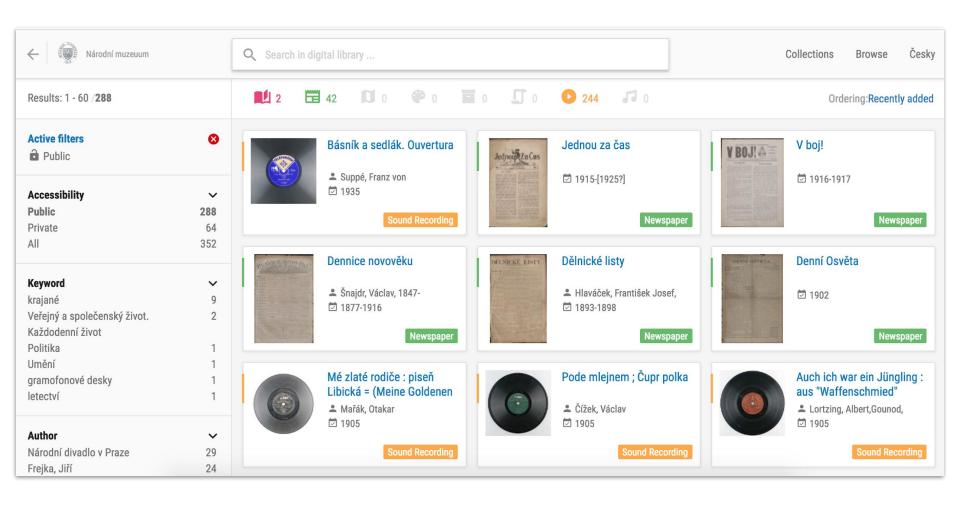
Technical Metadata - BWF embedded

- METS
- PREMIS



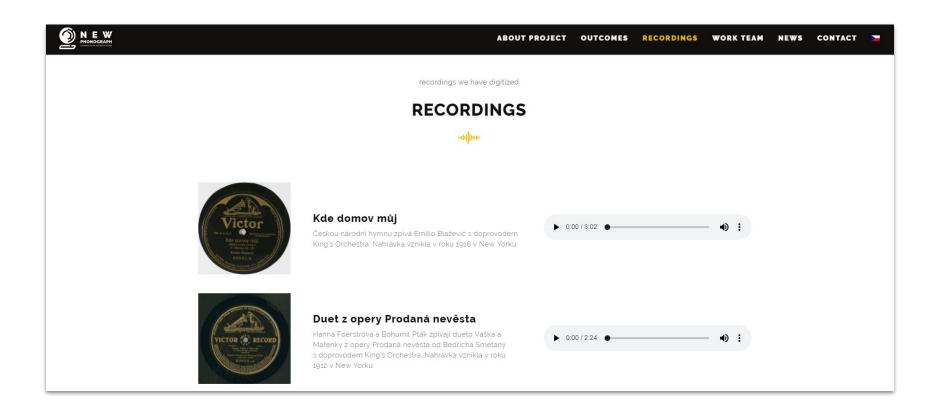
Access (1)

Ingest - Digital Library Kramerius



Access (2)

Web portal - Making content accessible via NewPhonograph.cz



Outreach - Radio, TV and Social campaigns, Exhibitions and public-facing workshops

Education (1)

As a research project, each pillar represents a facet of education, which will be disseminated through workshops and lectures, as well as published articles.





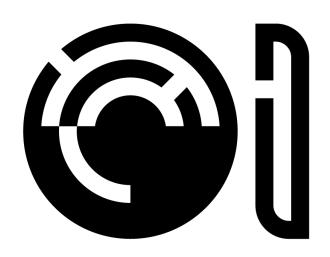
Education (2)

An education platform will be created:

- Faculty of Arts of Masaryk University (KISK)
- New curriculum to disseminate knowledge of new procedures
- Digital Curatorship (Masters) | Protection of Cultural Heritage (Masters)
- Focus on library science, museum management, and archival science.







Summary of Outcomes

The project aims to create a unified method of cataloguing media across institutions, make the content accessible and presented within context and to ultimately deliver a complete workflow which can be integrated into other national institutions.

The defined outcomes cover:

Methodologies

- Handling and protection of historical media
- Capturing authentic images of gramophone record labels for permanent storage
- Digitalization of recordings stored on phonograph cylinders

Software

- Modules for ProArc and Kramerius
- National Discographic Database
- Workflow tracking database

Publications

- Peer-reviewed articles
- Workshops
- Presentations

Main project results - methodologies

The principle outcomes include a number of best-practice methodologies which will integrate expertise from around the world into the Czech cultural heritage environment.



- Aggregated, translated information from various sources (TC05, Sound Directions, etc)
- Do-it-yourself approach for other institutions to follow
- A best-practice methodology for capturing authentic images of gramophone record labels for the purposes of permanent storage
 New photo studio, storage, metadata and software requirements
- Methodology of digitisation of recordings stored on phonograph cylinders
 - o Aggregation of best-practice from around the world, for the Czech environment
 - Possible inclusion of newer techniques (non-standard styli, methods of cleaning)

Main project results - software

These tools shall be based on solutions that are already in use, but customised and made freely available to other cultural heritage institutions.

National Discography Database



2022

- Phonocylinder module for ProArc production & archiving system

 Development of a software module for creating and editing phonograph cylinder metadata in the ProArc production and archiving system

 Sound player module for Kramerius

 Creation of a module for presenting (making accessible) audio documents in the Kramerius digital library
 - Creation of a specialized electronic database focused on Czech and Czechoslovak recordings published commercially in the form of cylinders and standard records

Main project results - books, etc.

Digitization of audio documents: current situation, issues, possibilities

Czech National Phonotheque or National Sound Archive Throughout

History

Peer-reviewed Articles

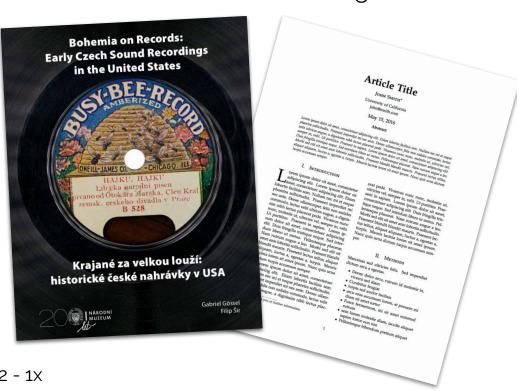
• 8 in total

Timeline: 2020 - 4x | 2021 - 2x | 2022 - 2x

Workshops

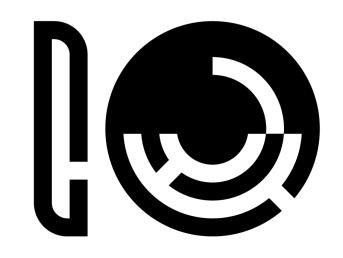
• 6 workshops across four years

Timeline: 2019 - 2x | 2020 - 2x | 2021 - 1x | 2022 - 1x



Beyond the Project

- Procedures and standards taken from the international community (e.g. IASA TC-05) will be implemented at the national level.
- Newly developed software tools can be distributed freely and linked to widely-used Czech platforms (ProArc, Kramerius).
- The digitisation devices purchased within the scope of the project will be available for other institutions as well and, ultimately, beyond the Czech Republic.
- Education of new specialists will make the oldest historical audio technologies accessible in an attractive way while ensuring their permanent protection at the same time.
- Possibility of a central European audiovisual archive council



Institutions and Roles







- Collection registration; history of collection; uniqueness of sound documents; criteria for selecting documents for digitization
- Coordinates the area of image and sound digitisation; long-term storage of digitized documents and the process of making them accessible
- Analyzing and creating a standard for the long-term storage of phonograph cylinders; coordinates works within this standard in the NL CR
- Coordinates development of tools for creating and editing the metadata of sound documents; defines the metadata structure and audio modules for ProArc & Kramerius systems
- Coordinates lecturers of teaching digital curatorship and cultural heritage protection; writing text (historical studies, teaching texts, proposal of a specialized curriculum) and organizes workshops and seminars

A plan of research activities: stage 1

- Registration and research on the content of the recordings, with a focus
 on the uniqueness of the content and unique identification
- Analysis and installation of technology for the digitization of record labels
- Research into label photographing, towards a certified methodology
- Analysis of the needs of museums in registering the content of recordings
- Heuristics of discographic data
- Analysis and interpretation of recommendations for physical protection of media for Czech cultural heritage institutions
- Specialized training for new cataloguers
- Preparatory analysis for software solutions
- Analysis for the preparation of training seminars for Masaryk University

A plan of research activities: stage 2

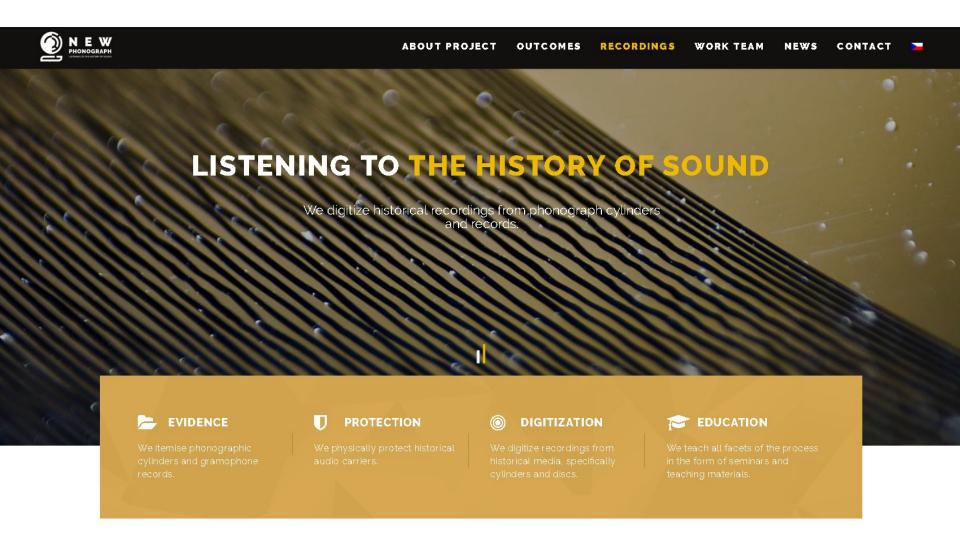
- Purchase of unique equipment for the transcription of phonograph cylinders
- Analysis, specification, and creation of the LTP standard for cylinders
- Specification and programming:
 - new module for cylinders in ProArc system
 - new sound module for Kramerius digital library
- Defining workflow and technological processes for selective digitization
- Methodology for the digitisation of recordings stored on cylinders
- Writing of texts and study materials
- Organization and teaching of courses and workshops

A plan of research activities: stage 3

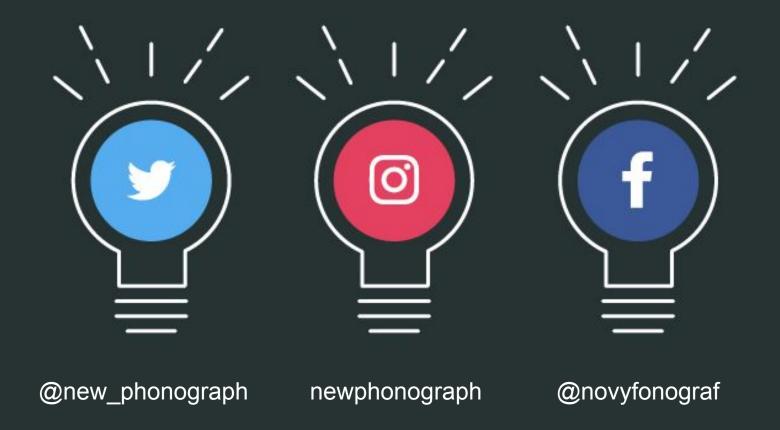
- Specialized transcription of analog sound recordings into digital form
- Both manual and automated creation of metadata
- Creation of National Digital Library packages using the new software-module in ProArc and the process of archiving and making them accessible in Kramerius digital library
- Making the digitised documents available in the digital library, i.e.
 uploading files, creating links, creation of metadata and controlling them
- Analysis, evaluation, and development of discography databases
- Analysis, creation, and content of the new web portal for the NM-CMM
- Writing specialized texts and releasing publications
- Education in the form of training seminars, workshops, and webinars



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THANKS FOR LISTENING

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