

**MTA SZTAKI**

Department  
of Distributed  
Systems

**The problems of persistent  
identifiers in the context of  
the National Digital Data  
Archives of Hungary**

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# Introduction of MTA SZTAKI

- MTA = Hungarian Academy of Sciences
- SZTAKI = Computer and Automation Research Institute
  - Member of ERCIM, EU Centre of Excellence
- Department of Distributed Systems (DSD)
  - Main topics: digital libraries, metadata, groupware, web applications
  - Some of our past EU projects: Web4Groups, DELOS, CORES, StreamOnTheFly
  - Disseminating European experience and knowledge to the local level (libraries, town councils, etc.)

# National Digital Data Archives (NDA)

- „*The NDA is the nation's digital datastore.*”
- „The NDA is a new archive for a knowledge-based society and the digital era that makes Hungary's national cultural assets available in a digital form for a wide range of users and by utilising the new features of the network medium it creates added value at service level.”
- State initiative with an emphasis on
  - Openness
  - Self-organization and cooperation

## NDA supported activities

- Digitization of cultural assets
- Creation of metadata records for digitized items
- Providing access to metadata (OAI)
- Implementing NDA services
  - Unified search engine
  - Ontology servers
  - Metadata scheme server

# Scope of NDA

- Content
  - Cultural content
  - State administrative content
  - Products of memory institutions
- Types of content
  - Text
  - Image
  - Movie
  - Museum objects, etc.

# NDA Architecture

- Based on OAI
- Specialized metadata schemes for NDA
  - Document, film, programme, etc.
- Repositories
- Common services
  - Search engines
  - Thesaurus
  - Directory and name lookup service for
    - Persons
    - Organizations
    - Locations
  - Etc.

# Persistent identifiers

- Persistent identifier solution is needed for the following types of objects:
  - Services
  - Digital content objects
    - (metadata records?)
  - Persons
  - Organizations
  - Locations
    - (geographic names may change in time)
  - Events
  - Thesaurus items

# Requirements for persistent identifiers

- Can handle high volume of identifiers (millions of ids)
- Based on open standard
- Easy to integrate with OAI infrastructure
- Contains information on
  - type of identified object
  - containment relation?
  - date of id creation?

## Further information

- Links:
  - <http://www.nda.hu>  
(NDA portal and search engine)
  - <http://nda.sztaki.hu>  
(NDA compatible search engine)
- Contact:
  - András Micsik ([micsik@sztaki.hu](mailto:micsik@sztaki.hu))