Uta Ackermann, Kadir Karaca Koçer

URN:NBN – Recent developments

Topics

1. Work done since last workshop
2. Recent work
3. **urn:nbn:de** and Research Data
4. Discussion

Work done since last workshop

- New Policy
- Fragment Identification
- Linked and Open Data (Den Haag Manifesto)
- Refactoring & MAVEN port
- Published on SourceForge/Sonatype
- Austria

Fragment Identification

- non-Standard Extension: **`/fragment/`**
- each level of Path will be added to URL as Parameter

urn:nbn:de:gbv:089-3321752945/fragment/page=40/highlight=220,620,550,820/zoom=150

⇩

http://uni-hannover.de/edok/332175294.pdf?&highlight=220,620,550,820&page=40&zoom=150

- for PDF: parameters are defined in RFC 3778
- for other Media-Types the server hosting the document must "understand" (or ignore) all given parameters and handle the request

LoD - Den Haag Manifesto

Principles [*Andrew Treloar, Australian National Data Service*]

1. Make sure PIDs can be referred to as HTTP URI's, including support for content negotiation
2. Use appropriate LOD vocabularies to populate schema elements
3. Identify the minimum common set of schema elements across different kinds of identifiers in the scholarly communication space
4. Use same-as relations to help PID interoperability across PID systems/schemas
5. Use Persistent IDs for Subjects and Objects
6. Work with the LOD community on simple policies/procedures to improve persistence of HTTP URIs

Den Haag Manifesto

Divergence of the URN:NBN-System

Remarks to Principles 3 + 4 of the Manifesto

Metadata is stored in the Library System:

- only the core information about identifiers and their “owners”
- URN:NBN-System saves no descriptive metadata but reference to descriptive metadata
- No duplication of metadata
- Linking instead of copying
- SameAs functionality will be added (references to culturegraph.org or other datasets)

Recent Work

- ReST-API
- Web GUI for Administration *(M. Klein)*
- URN:NBN Cluster *(T. Seidel)*
- APARSEN *(S. Schrimpf)*

URN:NBN-Cluster

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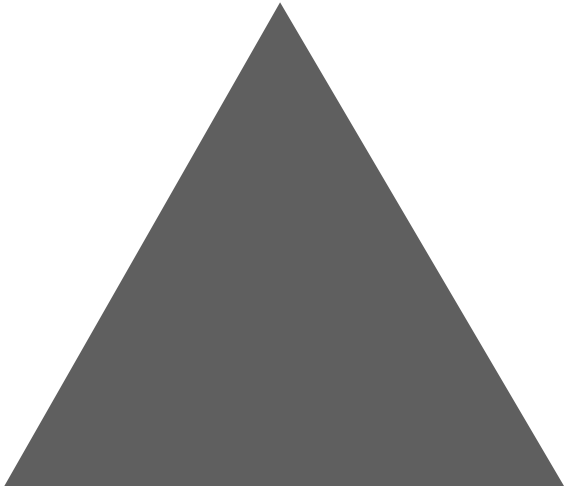
– Motivation
  - share/re-use technology
  - combine resources/synergies
  - common understanding
  - common functionality
  - interoperability
  - online 24/7

– Earlier work
  - Knowledge Exchange
  - PersID
  - EuropeanaConnect

urn:nbn:de and **Research Data**

German National Library and Persistent Identifiers

Identification



Bibliographical Description

Long Term Preservation

urn:nbn:de & Research Data - I

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That means:

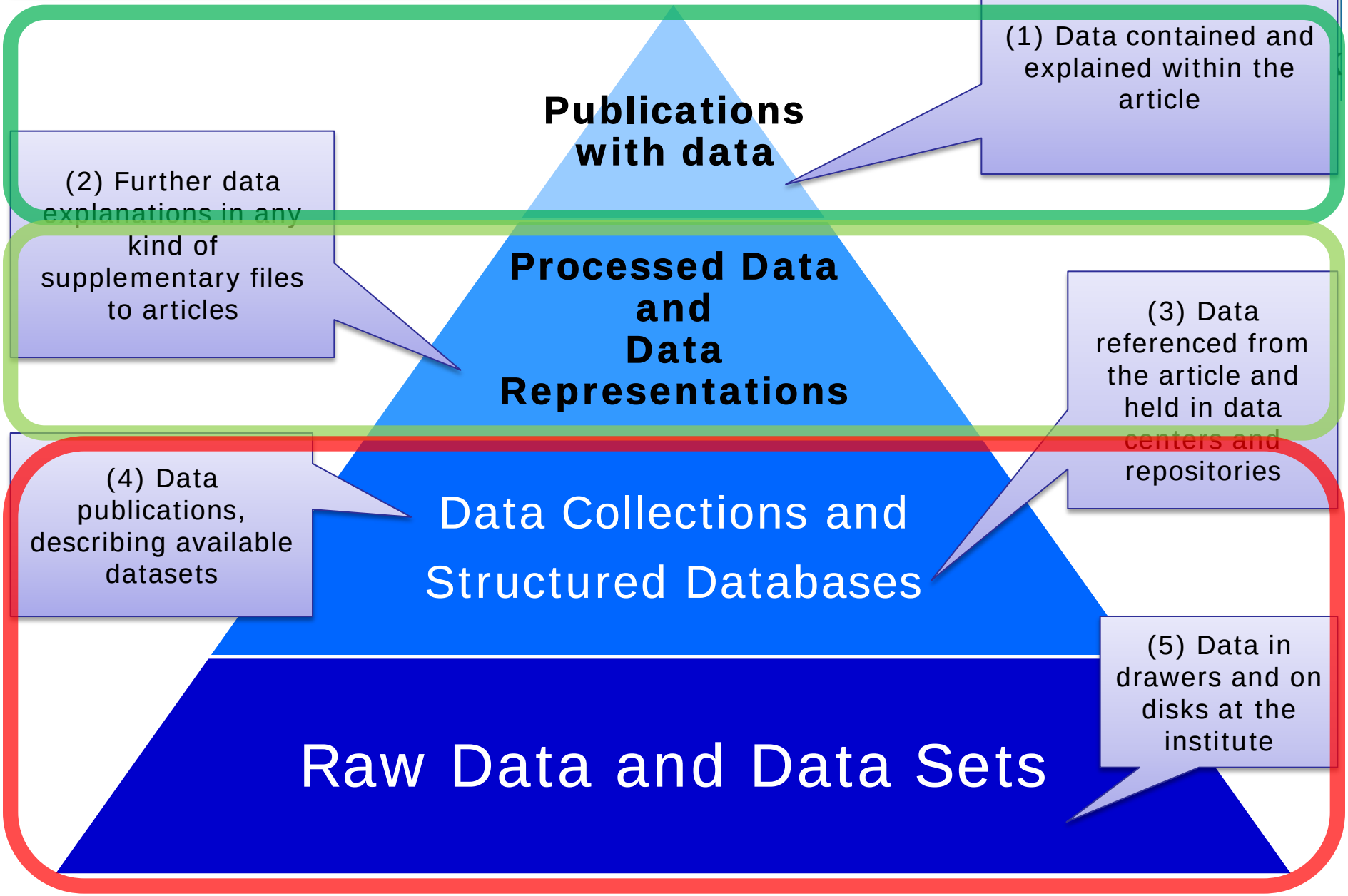
- LTP of the objects is mandatory
  - the object must be in a "**stable state**" and "**self-contained**"
- Metadata of the objects maintained externally (e.g. in a bibliographic system or repository)

→ research data?

urn:nbn:de & Research Data - II

- **urn:nbn** namespace originally defined for requirements of national bibliographies
- Usually objects reached the status of a publication
- Administration mainly through libraries
  - → **lack of expertise on research data**
- Research data often only usable with application

The Data Publication Pyramid



© Opportunities for Data Exchange (ODE) http://www.ode-project.eu

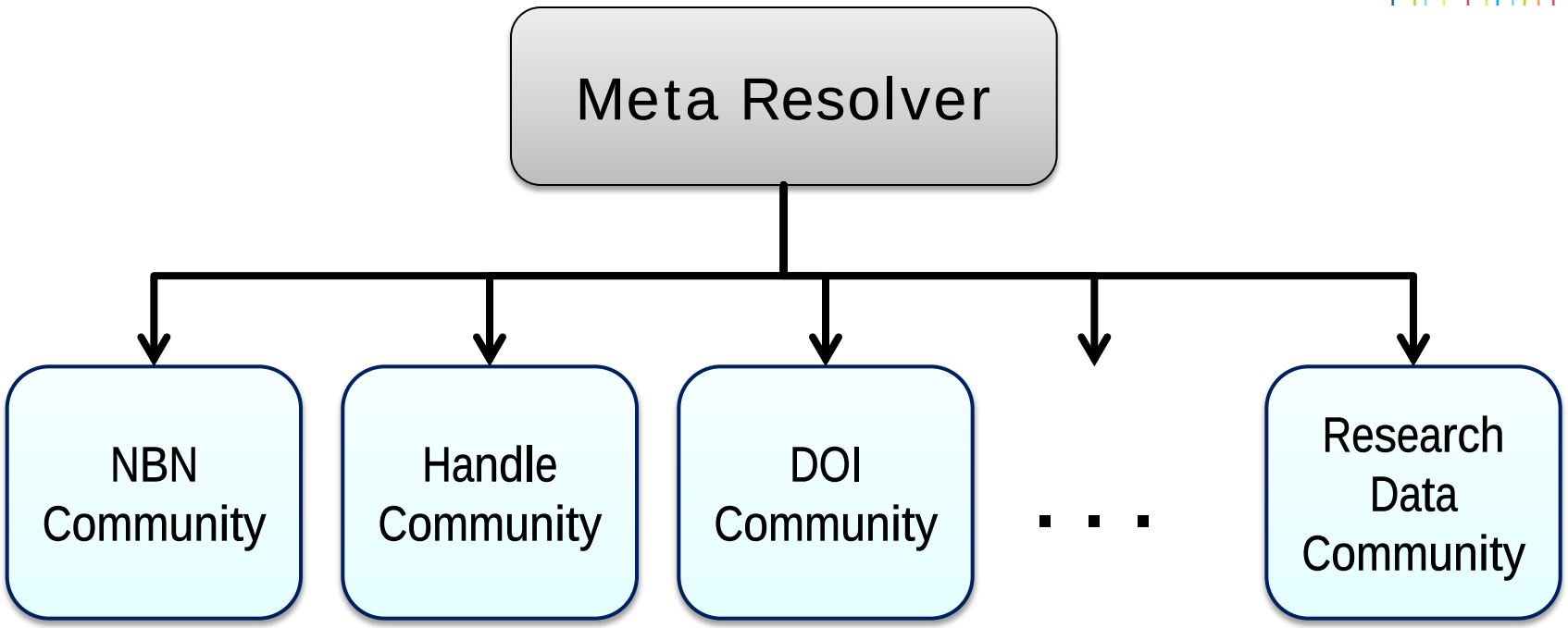
Summary

- urn:nbn:de & Research Data is a good combination if the Policy is fulfilled
- Lack of expertise in other research data specific requirements

  → Partner needed!

- Alternative: other URN sub-namespace

  urn:grdn (?), urn:raw (?), urn:uuid



- adopt main parts of existing concepts and policy
- reuse existing software / cluster

Thank you for your interest.

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Links

PersID http://persid.org/

URN:NBN Resolver http://nbn-resolving.org

Source Code (SVN)
https://metaresolver.svn.sourceforge.net/svnroot/metaresolver

Maven Repository
https://oss.sonatype.org <groupId>org.nbn-resolving</groupId>

Culturegraph http://www.culturegraph.org

APARSEN http://aparsen.eu/