NARCIS - more than a gateway to Open Access publications in The Netherlands

Elly Dijk

KNAW Research Information

Open Access Infrastructures: the Future of Scientific Communication, Athens - Greece,
15 December 2008
Royal Netherlands Academy of Arts and Sciences

Academy's mission:
- To ensure the quality of scientific research in the Netherlands
- To promote the open accessibility of scientific information

Mission of my Department:
- National focal point of research information

Member of EuroCRIS:
www.eurocris.org
Outline

- Dutch Infrastructure for Research Information
  ✔ Open Access movement in The Netherlands

- Dutch scholarly portal NARCIS

- Digital Author Identifier - DAI

- Joining CRIS, OAR and e-Data: Barriers

- Further developments

- Conclusions
Academic Information Domain

Based on: Knowledge Exchange
Dutch Academic Information Domain
Heaven?
Current Research Information System

- Every university and the Academy has its own CRIS: Metis

Content:
- Researchers: expertise, research data and workplaces
- Research Institutions: Profiles and Addresses
- Research Programmes and Projects
- Bibliographical information on research results
National CRIS: Dutch Research Database

Sources:
- University systems - Metis systems
- Other research institutions
- National Research Council

Content:
- Research Programmes and Projects
- Research institutions
- Researchers

Data model:
- CERIF - Common European Research Information Format developed by EuroCRIS
Open access movement in The Netherlands

- Berlin Declaration on Open Access to Knowledge in the Sciences and Humanities - October 2003
  - Signed by the Academy - 2004 -, the universities, and the National Research Council

- **Golden route** of OA publishing: OA journals
  - 28 Open Access Journals in The Netherlands

- **Green route** of Open Access publishing: repositories
  - Part of DRIVER - Digital Repository Infrastructure Vision for European Research
Publications Repositories

- National DARE programme - Digital Academic Repositories
- Better access to the results of publicly funded research
- By development of institutional repositories: universities, Academy, National Research Council, smaller research institutes
- Long term preservation by the National Library
- Coordinated by SURFFoundation
Publications Repositories

- 23 Open Access Repositories
- 165,000 full-text publications
- Subsections: *Cream of Science* and *Promise of Science*
E-Data repositories

- The universities don’t have e-Data repositories
- Researchers don’t take good care of their research data
  ✓ Keep information in their computer
  ✓ Don’t take care of preservation
  ✓ Don’t like to share their data

- E-Data Institute DANS - Data Archiving and Networked Services
DANS
Data Archiving and Networked Services

- Repository called EASY - Electronic Archiving System
- Data themselves available under the conditions specified by the depositor
- Humanities and Social Science

Table F.1
Gross National Income by Component, 1807-1913
(millions of guilders, current prices)

<table>
<thead>
<tr>
<th>Year</th>
<th>Wages</th>
<th>Capital</th>
<th>Profits</th>
<th>Depreciation</th>
<th>Indirect</th>
<th>Gross National Income</th>
</tr>
</thead>
<tbody>
<tr>
<td>1807</td>
<td>757.6</td>
<td>451.7</td>
<td>156.7</td>
<td>107.7</td>
<td>87.7</td>
<td>1531.4</td>
</tr>
<tr>
<td>1808</td>
<td>762.1</td>
<td>390.1</td>
<td>160.6</td>
<td>100.8</td>
<td>90.4</td>
<td>1523.0</td>
</tr>
<tr>
<td>1809</td>
<td>778.3</td>
<td>497.4</td>
<td>171.4</td>
<td>114.7</td>
<td>93.1</td>
<td>1694.9</td>
</tr>
<tr>
<td>1810</td>
<td>796.4</td>
<td>643.2</td>
<td>179.3</td>
<td>121.5</td>
<td>97.0</td>
<td>1837.4</td>
</tr>
<tr>
<td>1811</td>
<td>820.8</td>
<td>464.1</td>
<td>187.0</td>
<td>122.7</td>
<td>90.8</td>
<td>1910.4</td>
</tr>
<tr>
<td>1812</td>
<td>844.7</td>
<td>616.5</td>
<td>192.0</td>
<td>110.3</td>
<td>102.3</td>
<td>1874.9</td>
</tr>
<tr>
<td>1813</td>
<td>857.7</td>
<td>695.4</td>
<td>197.9</td>
<td>126.5</td>
<td>105.0</td>
<td>1982.5</td>
</tr>
<tr>
<td>1814</td>
<td>877.0</td>
<td>690.1</td>
<td>207.5</td>
<td>129.1</td>
<td>107.7</td>
<td>1921.4</td>
</tr>
<tr>
<td>1815</td>
<td>902.3</td>
<td>622.8</td>
<td>221.3</td>
<td>129.5</td>
<td>106.6</td>
<td>1985.4</td>
</tr>
<tr>
<td>1816</td>
<td>926.1</td>
<td>614.0</td>
<td>243.1</td>
<td>139.9</td>
<td>115.5</td>
<td>2038.6</td>
</tr>
<tr>
<td>1817</td>
<td>943.5</td>
<td>594.8</td>
<td>239.3</td>
<td>148.2</td>
<td>110.3</td>
<td>2042.2</td>
</tr>
<tr>
<td>1818</td>
<td>951.5</td>
<td>652.0</td>
<td>243.1</td>
<td>155.6</td>
<td>114.8</td>
<td>2116.9</td>
</tr>
<tr>
<td>1819</td>
<td>972.8</td>
<td>634.2</td>
<td>248.1</td>
<td>153.1</td>
<td>120.0</td>
<td>2120.6</td>
</tr>
<tr>
<td>1820</td>
<td>1003.4</td>
<td>663.6</td>
<td>257.7</td>
<td>156.1</td>
<td>126.2</td>
<td>2206.9</td>
</tr>
<tr>
<td>1821</td>
<td>1085.0</td>
<td>737.5</td>
<td>279.3</td>
<td>155.5</td>
<td>140.1</td>
<td>2547.4</td>
</tr>
<tr>
<td>1822</td>
<td>1080.4</td>
<td>961.4</td>
<td>335.8</td>
<td>177.3</td>
<td>155.8</td>
<td>2688.7</td>
</tr>
<tr>
<td>1823</td>
<td>1142.6</td>
<td>1155.2</td>
<td>372.2</td>
<td>180.2</td>
<td>142.4</td>
<td>3011.5</td>
</tr>
</tbody>
</table>
Reality: No Heaven but NARCIS

Research institutes

Research Council NWO

Metis (university)

Dutch Research Database (KNAW)

Repositories E-data

Repositories publications

NARCIS (KNAW)
NARCIS (Daffodil): Dutch Scientific Portal

- National Academic Research and Collaborations Information System
- Harvests records:
  - Dutch Research Database
  - Academic repositories
  - E-Data from DANS
Content NARCIS

- **Dutch Research Database:**
  - Expert database: 10,000 researchers
  - Portal of Professors and associate professors: 7,500 names
  - About 36,000 names of researchers
  - Project descriptions of current (20,000 records) and completed research projects (22,000 records)
  - About 3,200 records of university or non-university research institutes

- **Open Access Repositories:** 165,000 full-text publications

- **DANS:** Over 2,000 datasets
From a portal to a Dutch Academic Information Domain

- One portal to research related information
- All three systems searchable simultaneously
- Makes advantage of the real situation

**but:**
- No relation between the objects in the different systems!

**Solution:**
- Persistent Identifier for Persons

Source: cartoons.acord.org

“My data system isn’t speaking to your data system.”
Why is a persistent identifier for persons needed?

- Identifying persons: same name/name variations
- Merging information (e.g. publications) from different sources
- Keeping track of people across institutes, projects etc.
- Linking persons with other entities, e.g. institutes, research, publications
Overview of persistent identifiers for persons

- Social security number
- Authority records or name lists of (national) libraries
- OpenID - http://openid.net/
- Scopus Author Identifier
- ResearcherID - http://www.researcherid.com/
- Digital Author Identifier - DAI
What is a Digital Author Identifier - DAI?

- Digital Author Identifier is a unique number
- Assigned to every author who has been appointed to a position at a university or research institute
- In the Netherlands: a national number
Implementation of the Digital Author Identifier

- Co-operation of all Dutch universities, Academy and Dutch Research Council
- Creating a thesaurus of author names with corresponding DAI within the OCLC-PICA library system
- Matching DAI and author names in all three research related information systems
- 40,000 unique author names with DAI’s
NARCIS provides access to 152,138 scientific publications, over 2,100 datasets, and information on researchers (expertise), research projects and research institutes in the Netherlands.

- query: ‘meus’
- 38 results.

**W.H.J. Meeus**
Filter: Type: Persons Source: Dutch Research Database

**M.T.H. Meeus**
Filter: Type: Persons Source: Dutch Research Database

Co-Occurrence of Depression and Delinquency in Personality Types (2006)

Stability and change in personality type membership and anxiety in adolescence (2006)

Filter: Type: Publications (Open Access) Author: Tiedema, J., Maassen, C.M., Meeus, W., Engels, R. Source: Utrecht University

Attachment, social network and homelessness in young people. (1999)
Filter: Type: Publications (Open Access) Author: Meeus, W., Tjemsling, N., Taverchio, L.W.C. Source: University of Amsterdam

R&D cooperation in a transaction cost perspective (2001)
Filter: Type: Publications (Open Access) Author: Meeus, M.T.H. Source: Tilburg University

Attachment in adolescence: A social relations model analysis (2004)
DAI in action

CRIS

Institutional repository

E-Research

Harvester

Teddy index

NARCIS webportal

CRIS Webpage

Institutional Webpage

E-Research Webpage
Expertise
Adolescence; youth; Adolescents; Career; Identity and Personality development; Relations with parents and peers; Political attitude; Depressions and stress; Mental health; School career; Social problems; Generation gap; youth delinquency; Pedagogics; Psychology; Sociology

Expertise (NL)
Adolescentie; Jeugd; Adolescents; Loopbaan; Identiteits- en persoonlijkheidsonderzoek; Relaties met ouders en vrienden; Politieke attitude; Depressie en stress; Geestelijke gezondheid; Schoolcarrière; Sociale problemen; Generatieverschillen; Jeugdcriminaliteit; Pedagogics; Psychologie; Sociologie

Digital Author Identifier
info:eu-rep/0104625221

NETIS
Papers from the NETIS system of the UU (1)

TagCloud
adolescence adolescent development career depressions development educational family relationships formation friendship relationships generation identity mental health parent child relationship parents PEDIAGOGICS peers personality personality development political attitude psychology relations relationships school career social movements social problems sociology stress YOUTH youth delinquency youth development

Active as
* Professor Pedagogical Sciences (UU)
  * Chair (EN) Adolescent Psychology
  * Chair (NL) Menswetenschappelijke studie van de jeugd
  * Phone 46-10-2562102
  * Email w.meeus@fss.uu.nl

Datasets
* CONAMORE (Conflict and Management of Relationships) Adolescent study: Longitudinal survey - ongoing since 2001
  * Adolescent conservatism 1985; Adolescent conservatism 1995

Open Access Publications
* Co-occurrence of Depression and Delinquency in Personality Traits
  * Verschil in persoonlijkheid en social problemen bij de adolescenten
  * Separation-individuation revisited: On the interplay of parent-adolescent relations, identity and emotional adjustment in adolescence
  * Attachment in adolescence: A social relations model analysis
  * The reciprocal relationship between early adolescent attachment and internalizing and externalizing problem behaviour
  * Gehechtheid en interne en externe problemen bij adolescenten
  * Leefstijlverbetering van de kwaliteit van gehechtheid van adolescenten aan vader en moeder
  * Personality-preserved parental rejection and problem behavior in adolescence
  * Een onderzoek naar het verband tussen ouderlijke afwijking en depressie en agressie bij adolescenten
  * How do occupational and relationship stressors and identity formation affect adolescent mental health?

Current research
* Supervisor The dynamics of identity formation in adolescence
* Project leader Research on Adolescent Development and Relationships
Joining CRIS, OAR and e-data: Barriers

Technical barriers are not the main issues

✓ Interoperability:
  ⇨ Using OAI - PMH protocol

✓ Exchange formats:
  ⇨ DC, DIDL and MODS for repositories
  ⇨ CERIF based XML for CRIS

▪ Organizational issues are important

✓ Cooperation:
  ⇨ To make appointments about formats, deadlines, implementation

✓ Willingness:
  ⇨ To assign Digital Author Identifiers
  ⇨ To fill the CRISs and the repositories
The Future

- **Open Access Year 2009:** More full-text publications in the repositories

- Publication lists - harvesting of the “bibliographic only records”

- RSS service for the researcher’s website

- Enhanced publications for the international DRIVER project - Digital Repository Infrastructure Vision for European Research

- Metadata store (NARCIS becomes a National Repository)

- The technical universities are working on a repository with e-data for the technical sciences
2009: Open Access Year in The Netherlands

- Coordinated by SURFFoundation
- In cooperation with the Academy, National Research Council and all the universities

- Open Access rOAdmap 2009:
  - Communication: website, fact sheets, press releases, movies, conferences, presentations, et cetera
  - Grass root projects for promoting open access
  - Involvement of researchers
  - Copyright issues

- No mandating!
Conclusions

- It is possible to create a Dutch Academic Information Domain even when the systems are not connected

- Need for integration on some level: Digital Author Identifier

- To create a Dutch Academic Information Domain the greatest challenges are organizational

- So maybe Heaven doesn’t exist in the Dutch research infrastructure, but we have NARCIS!
Thank you for listening

www.narcis.info

elly.dijk@bureau.knaw.nl