

Data Archiving and Networked Services

DANS

iPRES conference October 8-10
2006, Cornell University

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DANS is een initiatief van KNAW en NWO



Data Archiving & Networked Services

- DANS is the Dutch national organisation responsible for storing and providing access to research data from the humanities and social sciences





- DANS is a joint initiative of the Royal Netherlands Academy of Arts and Sciences (KNAW) and the Netherlands Organisation for Scientific Research (NWO)





Goals DANS

- Take away barriers
 - Permanent access to research data
- Data Archiving
 - Make it easy for depositing new data
 - Fast access to existing data
- Networked Services
 - Networks of cooperation
 - Linking of relevant data
 - TOPical Programs (TOP)
- Development of research infrastructure (also on international level via ESFRI)



Outline of the presentation

- Organization of DANS
- Quality issues concerning digital research data
- Topical Programs (TOP)
- DANS and digital preservation



Organisation

- Staff: \pm 15 fte + project resources
- DANS is a network of people and data
 - Cooperation with: researchers, KB, National Archive, faculties, research schools, government bodies, etc.
- Demand-driven
- Trusted digital repository of a number of digital research collections
- Own development team (e.g. development of "EASY")



Self archiving is “EASY”

- *EASY: Electronic Archiving SYstem*
- Developed by DANS (Open Source)
- Based on functions described in OAIS model
- Aim: central website for depositing, finding and assessing research data
- In cooperation with
 - Data experts (DANS)
 - Research (e.g. Archeology)
 - Local Data Centers (e.g. VROM)



http://easy.dans.knaw.nl

Deposit dataset - required elements

Creator* ?	<input type="text" value="Rutger Kramer"/>
Title* ?	<input type="text" value="Scandinavian Trade, 1980-1990"/>
Description* ?	<input type="text" value="Import and Export figures over a 10 year period for Norway, Sweden and Denmark with countries outside of Scandinavia"/>
Date created* ?	<input type="text" value="1996"/> (yyyy or yyyy-yyyy)
Rights	
Access rights ?	<input checked="" type="radio"/> I. everyone, no conditons for use <input type="radio"/> II. only scientific research & education, no conditions for use <input type="radio"/> III. only scientific research & education, specific group(s), namely: <input type="text"/> <input type="radio"/> IV. only scientific research & education, after permission by depositor
License	View license agreement (PDF)
Date available * ?	<input type="text" value="2006-07-02"/> (yyyy-mm-dd)
Upload dataset	
File* ?	<input type="text"/> <input type="button" value="Browse..."/> <input type="button" value="Upload"/>
<input type="button" value="Save draft"/> <input type="button" value="Submit now"/> <input type="button" value="Fill in more"/>	
<input type="button" value="Leave procedure"/>	



Finding research-data

- Search
 - *Easy!*
 - Extended (time, location etc.)

A screenshot of the DANS search interface. It features a search bar with a magnifying glass icon and a 'Search' button. Below the search bar, there are several checkboxes for filtering results: 'In discipline(s):' with 'Humanities' and 'Social sciences' checked; 'My datasets' checked; and 'Incoming' checked. A note at the bottom states: 'Note: only the metadata of the datasets are searched.'

- Message to new datasets
- Keep track of usage



Directly accessible

Search

Search for ?

Within search results

In discipline(s):

- Humanities
- Social sciences

Results

Searched for "amsterdam", found 4 results.

Title ▲	Creator	Discipline	Created	Submitted
Data on budget and food of 527 households in the Netherlands, 1934-1938	Velden, H.F. van der	History	1987-1988	2006-05-31
Open het dorp 1962	Baschwitz instituut, universiteit van Amsterdam	Sociology	1962	2006-05-31
Straftoemeting van 800 kleine strafzaken 1953-1954	Ch.J. Enschede, Universiteit van Amsterdam	Law	1963	2006-05-31
The housing market in Amsterdam, 1550-1850	Lesger, C.M.	History	2000	2006-05-31

Data quality issues

Research data must be findable, accessible, usable, reliable and referable

- DANS recommendations concerning:
- the quality of research data
- the quality of the usage of the research data
- the quality of the data storage facility
- *(Based on NESTOR memorandum)*



"data seal of approval"



Quality of research data

- Scientific value → determined by peer-review process
- Data format
- Documentation



Quality of the usage of the research data

- Open Access (if possible)
- Codes of conduct, concerning
 - privacy
 - scientific practice (original, based on own work)
- Licenses of usage



Quality of the data storage facility

- = “Trusted digital repository”
- Organisational issues
- Technical issues
- Examples:
 - eDepot of National Library (KB)
 - “Big-GRID” of Nikhef (The National Institute for Nuclear Physics and High Energy Physics)
 - DANS data archive



Topical programmes (TOP)

(Implementation of demand-driven approach of DANS)

- Goal: improvement of data infrastructure in a particular discipline or a particular theme
- Initiated by or in cooperation with researchers
- Make databases of national and/or international significance better accessible, and/or enrich them with other databases or by adding data from other databases
- May involve data programs that have been concluded or are still up and running; they may also involve new initiative, or foresight studies



DANS and digital preservation I

- Raising awareness on importance of digital preservation for researchers and funding bodies (e.g. via quarterly *eDATA*, see: www.edata.nl)
- Establishment and maintenance of trusted digital repositories
- Development of tools and methods, e.g.
 - Persistent identifiers for research data
 - How to quote research data?
 - Stimulate and facilitate re-use of data
 - Preservation metadata for research data
 - Preferred formats for research data



DANS and digital preservation II

- Support the “emancipation” of databases (recognition of data collector / “citation impact factor”)
- Involvement in projects on digital preservation (e.g. EU Driver project)
- Co-founders of *National Coalition on Digital Preservation*



Questions?

- More information: www.dans.knaw.nl/en