Data Archiving and Networked Services

DANS

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DANS is een initiatief van KNAW en NWO

Data Archiving and Networked Services

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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

Data Archiving and Networked Services

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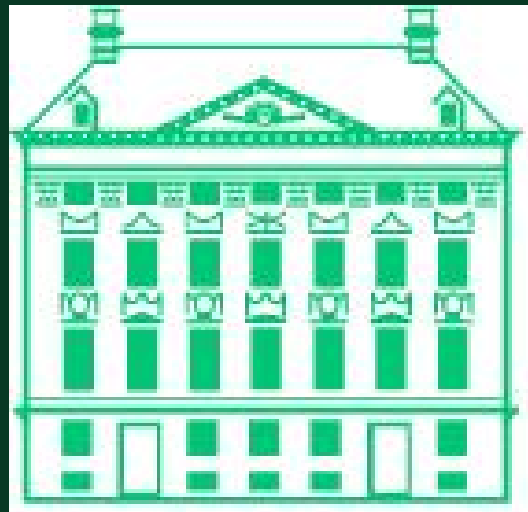
- DANS is a joint initiative of the Royal Netherlands Academy of Arts and Sciences (KNAW) and the Netherlands Organisation for Scientific Research (NWO)

Nederlandse Organisatie voor Wetenschappelijk Onderzoek



Koninklijke Nederlandse Akademie van Wetenschappen

Data Archiving and Networked Services

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Goals DANS

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

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Outline of the presentation

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

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Organisation

- Staff: ± 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")

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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)

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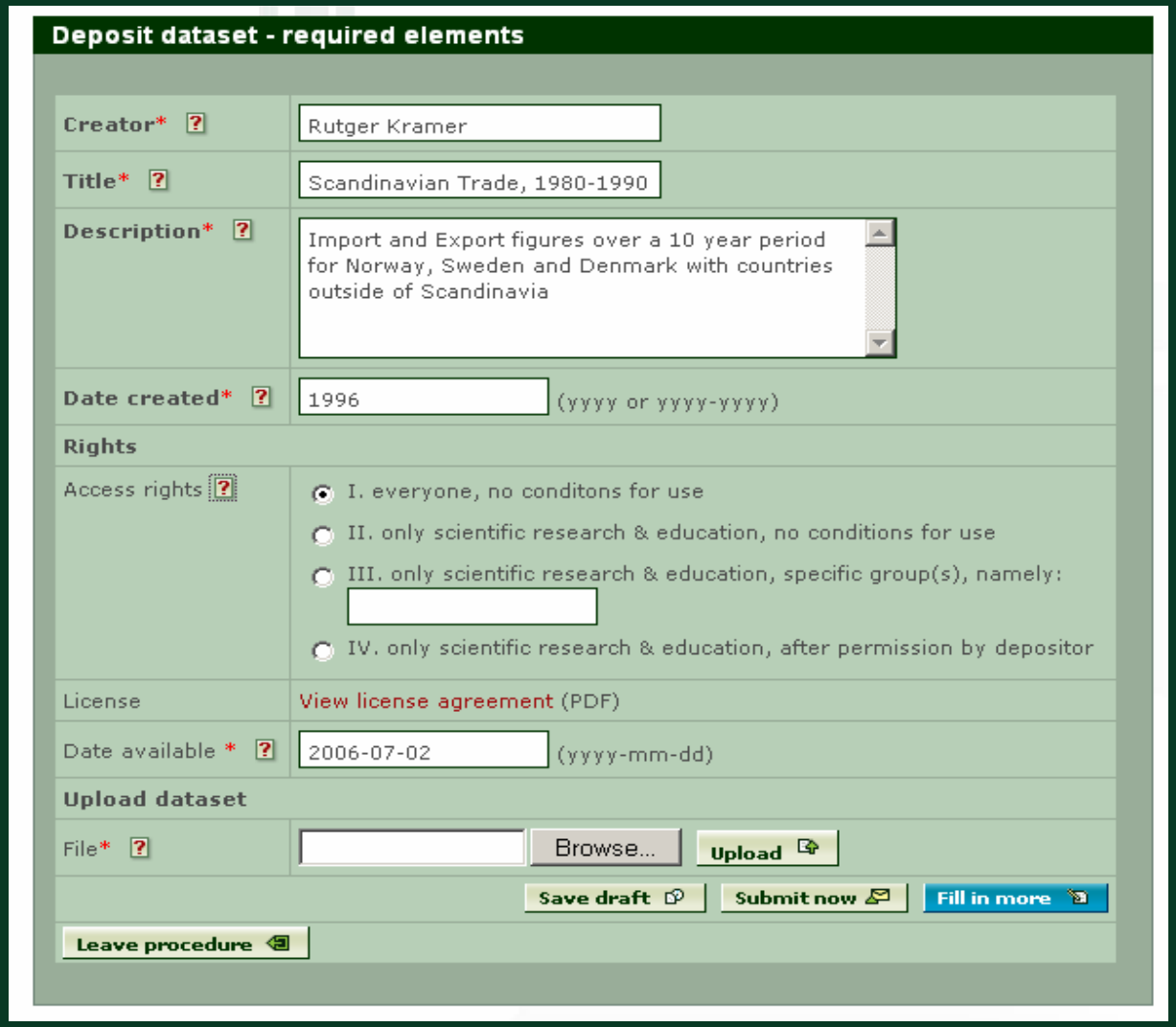
http://easy.dans.knaw.nl



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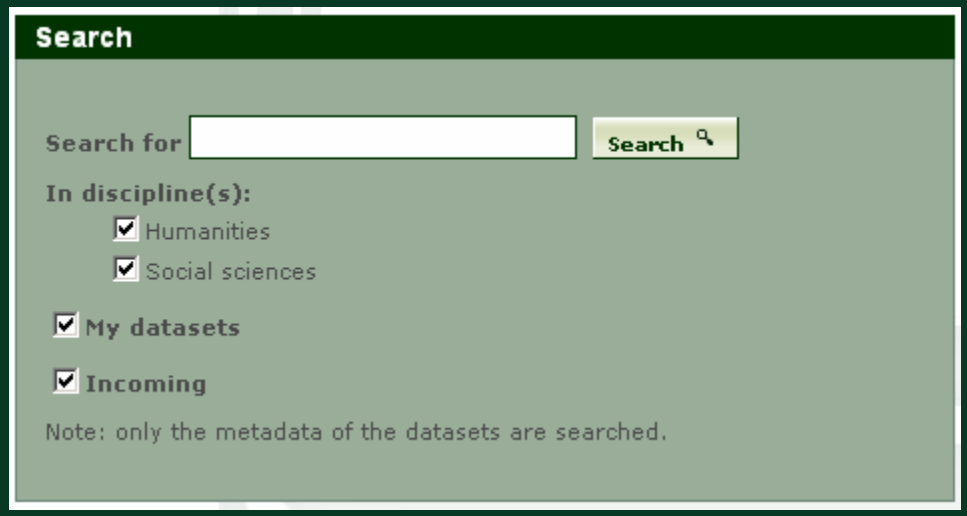
Finding research-data

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



- Message to new datasets
- Keep track of usage

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Directly accesible

Search

Search for [ ] Search

☐ 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

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Data quality issues

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

"data seal of approval"

- 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)*

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Quality of research data

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

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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

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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

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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

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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

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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*

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Questions?

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