

Building a Research Data Registry for the UK

Alex Ball¹ Kevin Ashley² Patrick McCann³ Laura Molloy³ Veerle Van den Eynden⁴

¹DCC/UKOLN Informatics, University of Bath ²DCC, University of Edinburgh ³DCC/HATII, University of Glasgow ⁴UK Data Archive

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Supported by



Outline

Motivation

Previous work

Architecture

Collaborators

Metadata

Evaluation

Phase 2

Conclusions

UK data landscape

























- Researchers need to search efficiently across many repositories.
 - Not just specialist data centres any more...
 - Institutional data repositories
 - Generalist repositories related to journals
 - Interdisciplinary and multidisciplinary research requires data drawn from diverse sources.
- ► Funders need to track data assets funded by their grants.
- University administrators need to track data assets produced by their researchers.
- Datasets need more visibility and identity.

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- ► Funders need to track data assets funded by their grants.
- University administrators need to track data assets produced by their researchers.
- Datasets need more visibility and identity.
 - Data sharing is good for research, but held back by
 - Low levels of reuse
 - Variety of attribution mechanisms
 - Lack of formal impact measurements

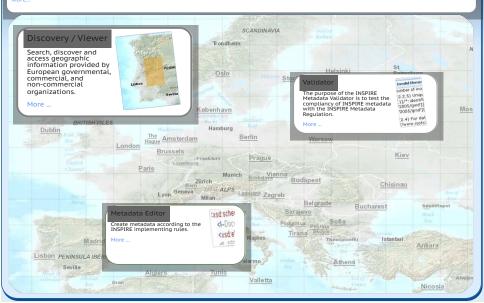
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We need a Research Data Registry and Discovery Service!

Welcome to the INSPIRE geoportal

The INSPIRE Directive requires the Commission to establish a community geo-portal and the Member States shall provide access to their infrastructures through the geo-portal as well as through any access points they themselves decide to operate.

More...





Data Catalogue Service

sharing NERC data

Home

About the DCS Search for data

Your comments About NERC science

Contact us Privacy and cookies

About the DCS

Search for data

Results

Search for data

Please use one or more of the options below to search the catalogue. Alternatively, try our advanced text search.

Free text

Please enter your search terms below or leave blank to match everything (help)

Search Clear

Only return records with an online resource .

Date range

Match data overlaping the period (help)

Search Clear

Dates should be in the format YYYY-MM-DD or YYYY

Shortcut search

everything in the catalogue.

Click to search records for

You are searching for...

2130 results returned in 0.16

Atmosphere

seconds.

Oceans

Geo-scientific Information

Inland waters

Environment

Geographic search

The map display lets you draw a box to define an area of interest and only returns records that intersect the box. We also offer predefined areas below (help)

Countries
Select a country...

Search C

Clear area

Bookmark with:

Define the search box coordinates - input order is most westerly, southerly, easterly, northerly



Help on Searching Data | | Contact

CESSDA Data Publishers

(9140 studies available)

APIS (27 studies)

ADPSS-Sociodata (59 studies) CSDA (1009 studies)

DANS (124 studies)

ADP (1087 studies) FORS (754 studies)

FSD (2010 studies) NSD (1034 studies) ISSDA (97 studies)

LiDA (423 studies) NSD Metadata (1034 studies) SND (196 studies)

ESSDA (15 studies)

UKDA (642 studies)

GESIS ZACAT (629 studies)

The CESSDA Catalogue

- Provides a seamless interface to datasets from social science data
- archives across Europe
- . May be searched via a free text search from the top search box
- . Browsed via the options in the left hand side menu
- . Can be viewed in any of nine languages. The default language is dependant on the regional setting of the computer user The language can be switched at any time by selecting the relevant
- language from the drop down list above. Please note: changing the language will take the user back to this CESSDA Catalogue home page
- . In the free text search:
 - 1. * truncation is supported
 - 2. '?' wildcards are supported

Search

CESSDA Catalogue Browse by Topic Browse by Keyword ⊞ Browse by Data Publisher



PARTICIPATE DEPOSIT IOIN

SEARCH PUBLICATIONS, DATA, PROJECTS

STATISTICS OA PROJECTS TOPICS

E > in V = 3

SUPPORT FAQ, HELPDESK, GUIDES

NFWSI FTTFR

OPEN ACCESS

LOG IN REGISTER

Search

Home

AII Publications Data Projects People Organizations Datasources Search keywords

At a glance

Dataset Type

Unknown (611)

Dataset Language English (101)

German (2)

Funder

Funding Stream European Capacities (4)

INFRA (4)

Scientific Area

2013 (1)

Publication Year

Access Mode

UNKNOWN (608)

Open Access (3)

Datasource

D... (14)

Commission (4)

Datacite (597)

Zenodo for Research



Options | Advanced Search | About Us | Contact | Help

marianus Search

heta

Filter

prefix

allocator

datacentre

resourceType

publicationYear

contributor

creator

publisher

language

3doi:10 5169/SEΔI S-115655 Felder, Peter

creator: Ifland, Marianus

Einsatz (CaseTrain)

creator: Ifland, Marianus

creator: Ifland, Marianus

creator: Ifland, Marianus

%doi:10 5169/SEΔI S-339455 Ronner, Christel

No active filters. Use the sidehar to filter search results.

10 documents found in 177ms Page 1 of 1 | - - - - - - |

Die hundertjährige Translationsfeier der beiden Wettinger Katakombenheiligen Marianus und # 1

Getulius

adoi:10.3205/10CBT27 Text : ConferencePaper

*doi:10.3205/MIBE000086 Text : JournalArticle

adoi:10.3205/ZMA000754 Text : JournalArticle

adoi:10.3205/ZMA000767 Text : JournalArticle

comparative phylogeographic study *doi:10.5061/DRYAD.M7RC3 Dataset : DataPackage

Ifland, Marianus • Hörnlein, Alexander • Ott, Julian • Puppe, Frank

Hörnlein, Alexander • Ifland, Marianus • Klügl, Peter • Puppe, Frank

Wallfahrtsbilderreihe in der Bischöflichen Sammlung Freiburg

Akzeptanz medizinischer Trainingsfälle als Ergänzung zu Vorlesungen

Aufwandsanalyse für computerunterstützte Multiple-Choice Papierklausuren

title: Die bildlichen Darstellungen im Atlas Marianus des Wilhelm Gumppenberg und eine Data from: Contrasting insights provided by single and multispecies data in a regional

Integration eines Freihandzeichen-Tools in das Trainings- und Prüfungssystem CaseTrain

Konzeption und Evaluation eines fallbasierten Trainingssystems im universitätsweiten

Hörnlein, Alexander • Mandel, Alexander • Ifland, Marianus • Lüneberg, Edeltraud • Deckert, Jürgen • (et. al.)

Mandel, Alexander • Hörnlein, Alexander • Ifland, Marianus • Lüneburg, Edeltraud • Deckert, Jürgen • (et. al.)

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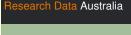
2 #3

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7



About

Parties

Browse by Map Coverage

Themes

Services



Q **Advanced Search** Browse by Subject Area

Collections

and data query.

Activities

What's in Research Data Australia



Collections (92633)

Research datasets or collections of research materials.



Parties (25467)

Researchers or research organisations that create or maintain research datasets or collections.



Activities (40674)

Projects or programs that create research datasets or collections.



Services (184)

Services that support the creation or use of research datasets or collections.

Spotlight on research data N.C.W. Beadle Herbarium

The N.C.W. Beadle Herbarium (NE) at University of New England contains around 90,000 pressed. dried, incorporated and databased plant specimens. The collection includes more than 150 TYPE specimens that anchor scientific names as cited in the original publication of those names. This rich resource contains many collections that are of great interest to local and international researchers. The

specimen sheet collection of the N.C.W. Beadle



Explore the N.C.W. Beadle Herbarium Collection through Research Data Australia >>>

Herbarium is databased and available to registered users for online data entry

Research Data UK?

Attractions of the Research Data Australia software:

- ► Familiar to project team
- Proven technology
- Plays nicely with search engines
- ► Displays sample citations and access/rights information up front

Challenges of using the software in the UK:

- ► Not used before outside Australia
- Uses uncommon metadata standard (RIF-CS) internally
- Original implementation only harvests in RIF-CS
- No UK data centre can output RIF-CS metadata

Phase I overview

- 1. Implement a working instance of ORCA.
- Assemble a group of contributors and establish how their metadata will be harvested.
- 3. Write crosswalks for transforming contributed metadata into RIF-CS.
- 4. Harvest metadata from contributors.
- 5. Reports on
 - using the Research Data Australia software;
 - how harvesting from data centres went;
 - how harvesting from university repositories went;
 - the value of continuing to develop the registry.

(Made available from http://www.dcc.ac.uk/projects/research-data-registry-pilot)

Architecture

http://rdrds.cloudapp.net/ Access management Collections Front end without **HTTP** OAI-PMH Metadata registry support OAI-PMH harvester Indexer (Apache Solr) Collections OAI-PMH with CMS editor OAI-PMH **ID** manager support CentOS Linux MS Azure

Collaborators

Data centres:

- UK Data Archive
- NERC Data Catalogue Service
 - ► BADC
 - ► BODC
 - ► EIDC
 - NEODC
 - ▶ NGDC
 - ► PDC
 - ▶ UKSSDC
- Archaeology Data Service

Universities:

- Edinburgh
- Glasgow
- ► Hull
- ► Lincoln
- Leeds
- Oxford
- Oxford Brookes
- St Andrews
- Southampton

Metadata crosswalks

DataCite 3

- Archaeology Data Service
- Oxford

DDI Codebook 2.5

UK Data Archive

EPrints 3

- ▶ Glasgow
- Leeds
- Southampton

MODS 3.5

- Edinburgh
- St Andrews
- ► Hull

OAI-PMH Dublin Core

- Oxford Brookes
- ► Lincoln

UK Gemini 2.2

► NERC Data Catalogue Service (incl. ADS)

From UKDA to RDRDS

UK Data Service



Catalogue

UK Data Service data catalogue record for:

Attitudes of Students at the London School of Economics, February 1980

Download/Order Get full DDI XML

Documentation Related Studies TITLE DETAILS

Attitudes of Students at the London School of Economics. February 1980

Persistent identifier: 10.5255/UKDA-SN-1354-1

Husbands, C., London School of Economics and Political Science, Department of Sociology

Principal Investigator(s): Husbands, C., London School of Economics and Political Science. Department of Sociology

SLIB JECT CATEGORIES

Higher and further

ARSTRACT

Engagement The studies force on barbonized characteristics relevant to a student provision, on attitudes to selected multipal and social lesses, and no nationation in various activities at LSE. Coastions vary community from year to year

COVERAGE, UNIVERSE, METHODOLOGY

6 February 1980 - 22 February 1980 Country:

Geography: London

A sample of registered part-time and full-time students at London School of Economics and Political Science each year between 1980-1992

Time dimensions: Repeated cross-sectional study surveys conducted annually

Sampling procedures:

Number of units: 285 (terget) 280 (obtained)

Method of data collection: Face-to-face interview

Attitudes of Students at the London School of Economics, February 1980

sample of students at the London School of Economics. The studies focus on background characteristics relevant to a student population, on attitudes to selected political and social issues, and on participation in various activities at LSE. Questions vary somewhat from year to

How to Cite this Collection Citation (Metadata):

Husbands, C. (1 Ja,1 Ja,1 Ja,1 Ja): Attitudes of Students at the London School of Economics, February 1990.

Identifiers

DOI: 10.52551 KDA-SN-1354-1 Additional Metadata

URL: http://esds.sc.uk/DDI25/1354.xml

Spatial Coverage:

text: GREATER LONDON text: England

text: London

Temporal Coverage: From 1980-02-05 to 1980-02-22

Subjects

ABORTION (INDUCED) ALCOHOL CONSUMPTION ATTITUDES EDUCATIONAL FEES EDUCATIONAL FINANCE EDUCATIONAL GRANTS

FAMILY INFLUENCE FOREIGN STUDENTS GENDER NARCOTIC DRUGS OCCUPATIONS PARENTS PARTITIME COLIRSES

POLITICAL PARTICIPATION PORNOGRAPHY SEXUAL BEHAVIOUR

SMOKING SOCIAL ACTIVITIES (LEISURE) SOCIAL CLASS SOCIAL PROTEST STUDENT HOUSING STUDENT LEISURE

STUDENT PARTICIPATION STUDENTS UNIVERSITY COURSES

Higher and further

Access

Access rights

The depositor has specified that conditions of use apply. The depositor may be informed about usage. See further information.

Connections

People

Suggested Links Internal Records

250 records with matching subjects

External Records 1 records from DataCite

▶ Does the software work as intended?

Do the harvested records look useful and accurate?

► Is the system straightforward to use?

▶ What might be improved?

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 Can import metadata, manage records, perform searches, etc.
 OAI-PMH harvest needed work.
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 Handling of citation data.
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Phase 2

- Define a set of clear use cases.
- Define a set of workflows for using the service.
- Compare different possible platforms for the service and assess their suitability.
- ► Establish a working instance of the system, involving all UK data centres and university data repositories..
- Establish a simple workflow for adding more data sources to the service, adapting to changes in existing data sources, and avoiding duplication.
- Test the system for usability.
- Produce recommendations for quality and standardisation of metadata records.
- Evaluate the costs and benefits of the system.

Conclusions

- Institutional data repositories need to work harder to make their holdings visible than domain-specific repositories. Cooperating with registries and search engines can help!
- When dealing with metadata it is important to focus on the application you are trying to provide.
- ► Working with the community is vital to ensure the service is relevant and useful.
- A strong business case and value proposition is important for sustainability.



Thank you for your attention

DCC Website: http://www.dcc.ac.uk/

Jisc RDRDS Project: http://www.dcc.ac.uk/ projects/research-data-registry-pilot