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DataCite: The International Data Citation Initiative. Datasets programme

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Working Paper No. 163

DataCite:
The International Data Citation Initiative
Datasets Programme

Max Wilkinson

November 2010
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DataCite: The International Data Citation Initiative

Datasets Programme*

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* This paper documents the presentation slides of a lecture given at a meeting of the UK Data Forum in November 2010

Abstract

DataCite is an international consortium which aims to increase acceptance of research data as legitimate, citable contributions to scholarly communication. To enable this DataCite assigns persistent identifiers for research datasets and manages the infrastructures that support simple and effective methods of data citation, discovery and access. DataCite leverages the DOI infrastructure, which is already well-established. DOI names are the mostly widely used identifier for scientific journal articles, so researchers, authors, and publishers are familiar with their use. DataCite takes an open approach, however, and considers identifier systems and services that help forward its objectives.

DataCite is represented in the UK by the British Library. This summary of the British Library’s involvement in DataCite was presented to the UK data Forum on Monday the 15th November 2010. Data publishers that wish to know more about DataCite or to use DataCite services are encouraged to contact the Library or their local DataCite members.

Further information and useful websites:

www.datacite.org.uk
www.datacite.org
www.doi.org

Keywords: Open Access, Research Data, Scientific Use, Public Use
JEL: C89, L86
Datasets Programme

Nov 2010

Max Wilkinson
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Modern science relies on good data

When we talk about data, we are really talking about the evidence that underpins research
Currently…

- No effective way to link between articles and datasets
- No widely used method to identify datasets
- No widely used method to cite datasets
Project portfolio
DataCite is a global consortium founded in London on 1 Dec 2009, which:

- Aims to improve the scholarly infrastructure around datasets and other non-textual information
- Focuses on working with data centres and other data-rich organisations
- Provides standards, workflows, and best-practice
- Supports persistent identification of data using the DOI system
DataCite Membership

- German National Library of Science and Technology (TIB)
- British Library (BL), UK
- ETH Zurich Library, Switzerland
- Institute for Scientific and Technical Information (INIST-CNRS), France
- National Technical Information Center (DTIC), Denmark
- TU Delft Library, Netherlands
- Canada Institute for Scientific and Technical Information (CISTI)
- Australian National Data Service (ANDS)
- California Digital Library (CDL), USA
- Purdue University Libraries (PUL), USA
- German National Library of Medicine (ZB MED)
- GESIS - Leibniz Institute of Social Sciences, Germany

12 members from 9 different countries

Over 700,000 records registered with DOI names so far
Roles and responsibilities

The DataCite registration agency:
- Maintains the resolution infrastructure
- Maintains a searchable database of metadata
- Manages the identifiers over the long term
- Establishes and shares best practice

Publishing agents (data centres, research institutes, data publishers) are responsible for:
- Quality assurance
- Content storage and access
- Creating the identifier
- Creating and updating metadata

Our long term vision is to support researchers by providing methods for them to locate, identify, and cite research datasets with confidence

Memorandum of Understanding
Paris 2 March 2009
Structure

International DOI Foundation

Member

DataCite

Managing Agent (TIB)

Carries

Member Institution

Data Centre

Associate Stakeholder

Works with

Member Institution

Data Centre

... n
DataCite

- **Support researchers** by enabling them to locate, identify, and cite research datasets with confidence

- **Support data centres** by providing persistent identifiers for datasets, workflows and standards for data publication

- **Support publishers** by enabling research articles to be linked to the underlying data

DataCite : Data Centres :: CrossRef : Publishers
Digital Object Identifiers (DOIs) offer a solution

A DOI is a unique identifier, similar in concept to an ISBN.

- Mostly widely used identifier for scientific articles
- Researchers, authors, publishers know how to use them
- Put datasets on the same playing field as articles
In summary…

- Data are a crucial component of scholarly communication.
- The British Library has a responsibility to address the challenges presented by data.
- Datasets Programme works collaboratively to integrate datasets into its research services and to ensure the integrity of the scholarly record.
- One such project is DataCite: The International Data Citation Initiative.
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Projects

- DRYAD
- DataCite
- UK Data Archive
- British Atmospheric Data Centre
- Sage Bionetworks

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