



D | C | C

because good research needs good data

# Support for researchers around the world

Kevin Ashley

Digital Curation Centre



This work is licensed under the Creative Commons Attribution 2.5 UK: Scotland License.

# Introduction

- A sample – not comprehensive
- ‘Support’ means many things; we look at
  - Policy
  - Guidance
  - Services
  - Other activities
- All at many levels – national, local, research domain

# Policy – national and international

---

- ▷ Steps towards international policy for over 10 years

# G8UK - Endorses OA

## Open Data Charter Policy Paper 18 June 2013



Cabinet Office

Policy paper

## G8 Open Data Charter and Technical Annex

Published 18 June 2013

### Contents

1. Principle 1: Open Data by Default
2. Principle 2: Quality and Quantity
3. Principle 3: Usable by All
4. Principle 4: Releasing Data for Improved Governance
5. Principle 5: Releasing Data for Innovation
6. Technical annex



2017-03-08

DCC training, Singapore NTU - CC-BY

# Policy – national and international

- ▷ Steps towards international policy for over 10 years
- ▷ Some funder policies precede this
- ▷ Implementation by G8 countries encourages others to follow
- ▷ Canada, UK, USA, Norway, Netherlands, EC, Germany, Denmark...
- ▷ Charitable funders also
- ▷ Details differ – broad implications the same

# Example - RCUK - The 1-minute version

- ▷ Research data are a public good – make openly available in timely & responsible way
- ▷ Have policies & plans. Data with long-term value should be preserved & usable
- ▷ Metadata for discovery & reuse. Link publications & data
- ▷ Sometimes law, ethics get in the way. We understand.
- ▷ Limited embargos OK. Recognition is important – always cite data sources
- ▷ OK to use public money to do this. Do it efficiently.

# One UK funder - EPSRC policy points

- ▷ Awareness of regulatory environment
- ▷ Data access statement
- ▷ Policies and processes
- ▷ Data storage
- ▷ Structured metadata descriptions
- ▷ DOIs for data
- ▷ Securely preserved for a minimum of 10 years  
**from last use**

Announced 2012 -  
Compliance  
expected by 2015

Compliance required by  
Universities, not researcher

# Policies at lower level

- ▷ University policies becoming common
- ▷ Make clearer how researchers are supported locally
- ▷ In UK – Concordat between universities & funders defines points of agreement, responsibility



# Lessons on policy

- ▷ Funders more effective when university is a clear target of the policy (e.g. EPSRC)
  - » Almost all just place responsibility on principal investigator
- ▷ Sanctions not necessary – yet
- ▷ Must be able to show that compliance can be tracked
- ▷ See Wellcome OA as an example

# National support

- ▷ Examples in some countries of national guidance or services
- ▷ Targeted at researchers and sometimes at those who support them
- ▷ UK, Netherlands, Denmark, Australia, Portugal, South Korea, Finland, Japan,...
- ▷ Work best when linked with local services

# National support - guidance

## Guidance for researchers

A Digital Curation Centre and Australian National Data Service 'working level' guide



### How to Appraise & Select Research Data for Curation

Angus Whyte (DCC) and Sarah Jones (ANDS)

 **ANDS Guide**



**Data citation**

Level: Awareness

Last updated: 19 January 2011

Web link: [www.ands.org.au](http://www.ands.org.au)

 **ANDS Guide**



**De-identification**

Level: Awareness

Last updated: 11 January 2017

Web link: <http://www.ands.org.au/working-with-data/sensitive-data/de-identifying-data>

This Guide is intended for those who own a dataset and want to de-identify it for the purpose of sharing or publishing the data.

**Introduction**

De-identification is most commonly undertaken to protect the privacy of individuals. It aims to allow data to be used by others without the possibility of individuals being identified. Data de-identification may also be used to protect organisations, such as businesses or other information such as the spatial location of mineral or archaeological findings or endangered species.

De-identification may not be required, for example, in oral histories where it is customary to publish and share the names of people interviewed and for which they have given their consent.



Digital Curation Centre, Australian National Data Service  
Licensed under Creative Commons  
<http://creativecommons.org/licenses/by/4.0/>

2017-03-08

## Guidance for university services

A Digital Curation Centre 'working level' guide



### How to Develop Research Data Management Services - a guide for HEIs

Sarah Jones, Graham Pryor and Angus Whyte



#### CASE STUDY

A Digital Curation Centre Case Study  
March 2013



### RDM Training for Librarians

Marieke Guy, Digital Curation Centre

**Section of the flow to guide, but files, web pages, guidance, training and support**

**Introduction**

This case study looks at the approaches taken by three JISC Managing Research Data Projects (2011-2013) and one institution to providing effective training for librarians and information services staff. As the landscape changes individual institutions will need to take measures to ensure that their library and information services staff are effectively trained in aspects of RDM. This case study looks at initiatives in this area.

**Background context**

Through its institutional engagement programme the Digital Curation Centre (DCC) has seen many institutional RDM initiatives emerging from libraries. Librarians are carving out a new role for themselves in promoting and embedding good RDM practices. They are well placed for this role having information science skills in areas such as metadata, open access, institutional repository use - key constituents for RDM. Librarians also tend to have good working relationships with other service departments and researchers. This results in requirements for them to act on institutional working parties and steering groups reviewing institutional strategies and infrastructure necessary to meet operational and regulatory requirements. Despite these factors service requests indicate that researchers do not immediately turn to the library, even when librarians could help a lot.

**Overview: RDMRose**

RDMRose is a JISC-funded project to produce taught and continuing professional development (CPD) learning materials in RDM tailored for information professionals. It is looking in particular at the specific needs of liaison librarians in university libraries, and deliverables include CPD material suitable for learning in multiple modes, including face-to-face and self-directed learning. All materials can be reused by other library and information service educators and a version for self-supported Continuing Professional Development is available.

The RDMRose project brings together the University of Sheffield (School with a practitioner community) based on the White Rose University Consortium's libraries at the Universities of Leeds, Sheffield and York. Development of content and teaching was flexible, based on a highly participative curriculum development process and with a strong strand of student evaluation of learning materials and activities. Version 1 of the training materials was released in March 2013 and the project is ongoing.

**Please cite as:** Jones, S., Pryor, G. & Whyte, A. (2013). 'How to Develop Research Data Management Services - a guide for HEIs'. DCC How-to Guide. Edinburgh: Digital Curation Centre, Australian National Data Service. <http://www.dcc.ac.uk/resources/how-to-guides>



Digital Curation Centre, March 2013  
This work is licensed under Creative Commons Attribution BY 2.5 Scotland

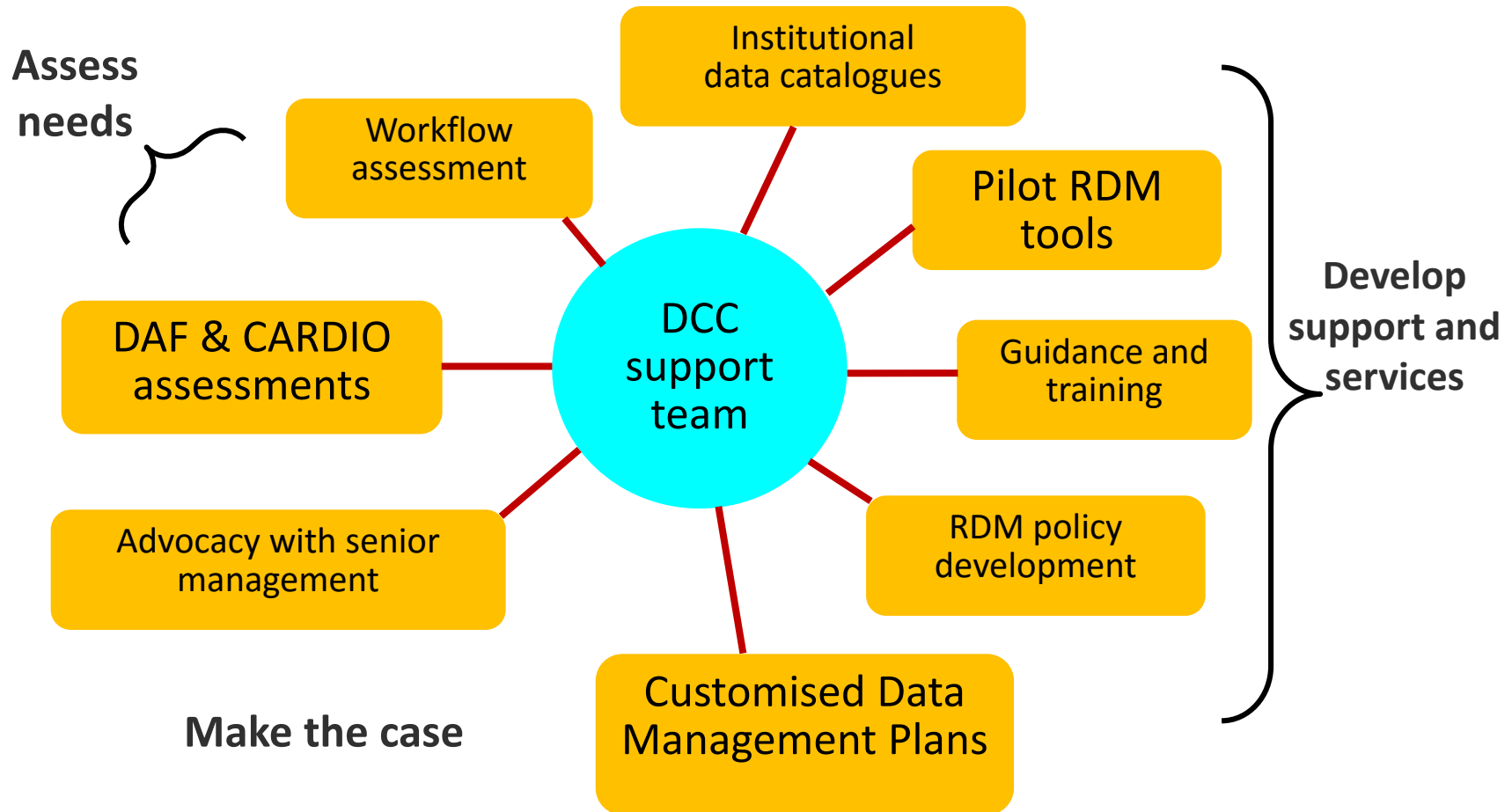
DCC training, Singapore NTU - CC-BY

11

# National Support - services

- ▷ Much variability by country – include:
  - » Storage
  - » Preservation
  - » Data Discovery
  - » Data Management Planning
  - » Data Analysis or visualisation
  - » Secure Data Services
- ▷ Some offered direct to researcher – some only to research organisations

# National support – service development



...and support policy implementation

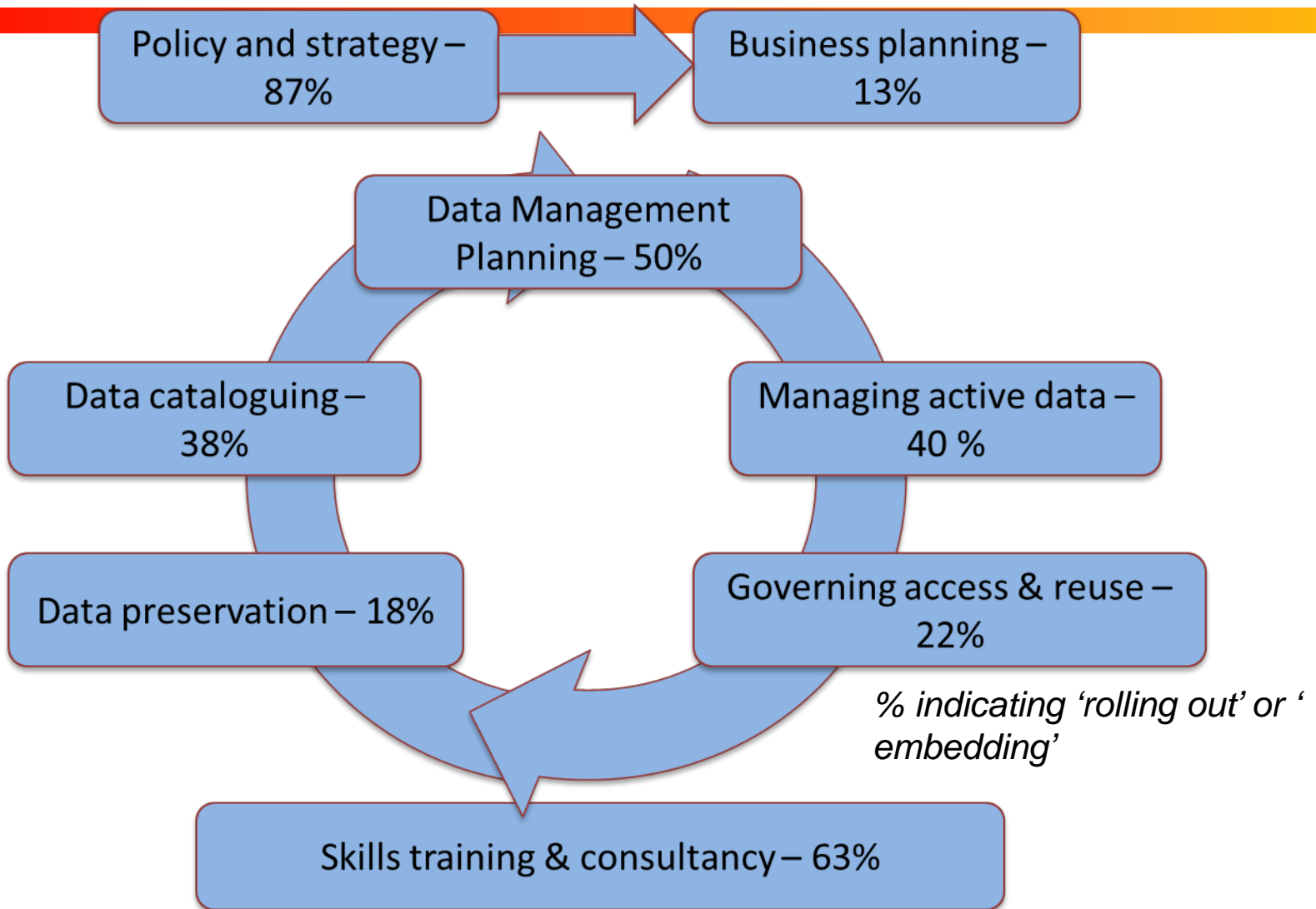
## ▷ Services:

- » Providing identifiers (ORCIDS, Handles, DOIs)
- » Data repositories
- » Secure data storage
- » Collaboration, analysis, visualisation for active and/or released data
- » Data management planning
- » Integration with researcher profiles
- » Interlinking of internal and external systems

# Local support - people

- ▷ Guidance and advice
  - » On access
  - » On data governance
- ▷ Awareness-raising
  - » Short talks
  - » Using other events
  - » Working with (e.g.) ethics boards
  - » Marketing – e.g. payslips
- ▷ Training for early-career researchers
- ▷ Audit – who has what and where is it?

# What is the national picture in the UK?

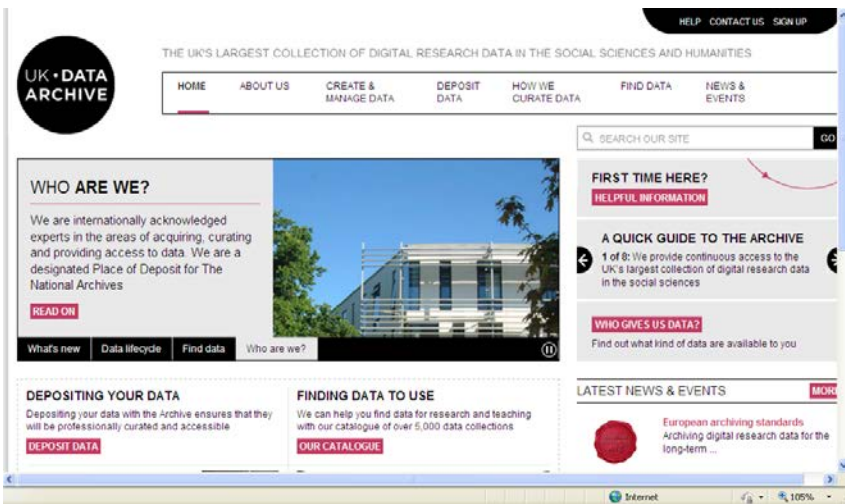




# These services can be...

- ▷ In-house, for one university
- ▷ Shared between a number of universities
- ▷ Shared across a country (in development)
- ▷ Purchased from a supplier – Figshare, Arkivum, etc.
- ▷ Scale is important
- ▷ Some things are hard to buy – storage is easy

# Domain support – data centres & infrastructure



UK DATA ARCHIVE

THE UK'S LARGEST COLLECTION OF DIGITAL RESEARCH DATA IN THE SOCIAL SCIENCES AND HUMANITIES

HELP CONTACT US SIGN UP

HOME ABOUT US CREATE & MANAGE DATA DEPOSIT DATA HOW WE CURATE DATA FIND DATA NEWS & EVENTS

SEARCH OUR SITE GO

WHO ARE WE?

We are internationally acknowledged experts in the areas of acquiring, curating and providing access to data. We are a designated Place of Deposit for The National Archives

READ ON

What's new Data lifecycle Find data Who are we?

DEPOSITING YOUR DATA

Depositing your data with the Archive ensures that they will be professionally curated and accessible

DEPOSIT DATA

FINDING DATA TO USE

We can help you find data for research and teaching with our catalogue of over 6,000 data collections

OUR CATALOGUE

FIRST TIME HERE?

HELPFUL INFORMATION

A QUICK GUIDE TO THE ARCHIVE

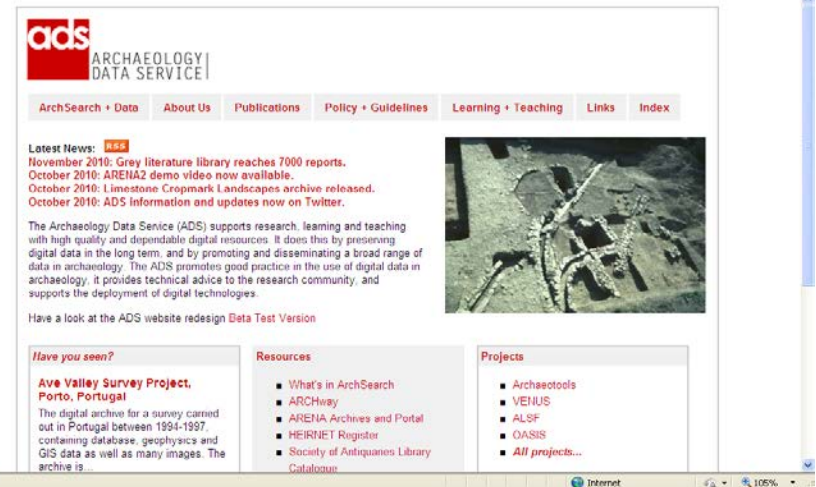
1 of 8: We provide continuous access to the UK's largest collection of digital research data in the social sciences

WHO GIVES US DATA?

Find out what kind of data are available to you

LATEST NEWS & EVENTS MORE

European archiving standards Archiving digital research data for the long-term ...



ads ARCHAEOLOGY DATA SERVICE

ArchSearch • Data About Us Publications Policy • Guidelines Learning • Teaching Links Index

Latest News: RSS

November 2010: Grey literature library reaches 7000 reports.  
October 2010: ARENA2 demo video now available.  
October 2010: Limestone Cropmark Landscapes archive released.  
October 2010: ADS information and updates now on Twitter.

The Archaeology Data Service (ADS) supports research, learning and teaching with high quality and dependable digital resources. It does this by preserving digital data in the long term, and by promoting and disseminating a broad range of data in archaeology. The ADS promotes good practice in the use of digital data in archaeology; it provides technical advice to the research community, and supports the deployment of digital technologies.

Have a look at the ADS website redesign Beta Test Version

Have you seen?

Ave Valley Survey Project, Porto, Portugal

The digital archive for a survey carried out in Portugal between 1994-1997, containing database, geophysics and GIS data as well as many images. The archive is ...

Resources

- What's in ArchSearch
- ARCHway
- ARENA Archives and Portal
- HEIRNET Register
- Society of Antiquaries Library Catalogue

Projects

- Archaeostools
- VENIUS
- ALSF
- OASIS
- All projects...



BODC British Oceanographic Data Centre

NATURAL ENVIRONMENT RESEARCH COUNCIL

Home Contact us Glossary Site map Bookmark Site styles

My account Register Log in

Search

About us Data Projects Partners Products Help and hints

Twitter Like 12

WELCOME TO THE

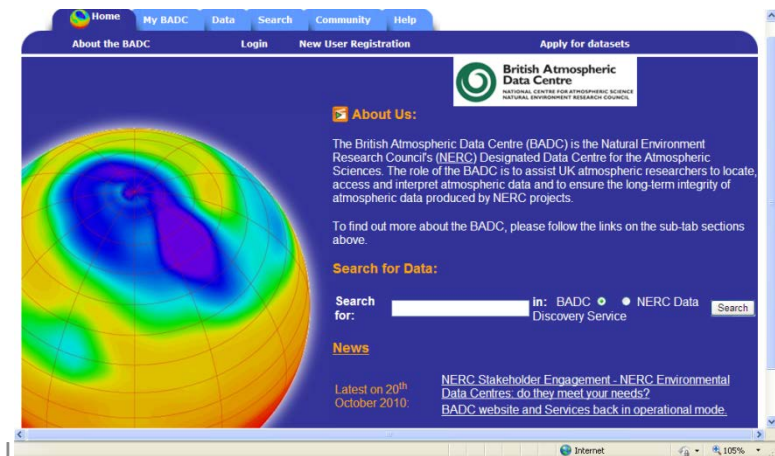
British Oceanographic Data Centre

a national facility for preserving and distributing marine data

We hope you enjoy our web site and would appreciate your comments. If you experience any difficulties, please contact our Web Master.

About us	Data	Projects
What do we do? Do you want to contact us? Learn about our history and the information technology we rely on. <a href="#">more</a>	We process, archive and distribute biological, chemical, physical and geophysical marine data. Find out how to download and request data, search our inventories and submit data to us. <a href="#">more</a>	Explore the data management services we provide to our scientific colleagues during marine research projects. <a href="#">more</a>

Partners	Products	Help and hints
Find out about the data management partnerships we have	Learn about our Web Services and software products. Find out how to order our digital	Learn how to use our web site. Read our content, copyright and



Home My BADC Data Search Community Help

About the BADC Login New User Registration Apply for datasets

British Atmospheric Data Centre

NATURAL CENTRE FOR ATMOSPHERIC SCIENCE NATURAL ENVIRONMENT RESEARCH COUNCIL

About Us:

The British Atmospheric Data Centre (BADC) is the Natural Environment Research Council's (NERC) Designated Data Centre for the Atmospheric Sciences. The role of the BADC is to assist UK atmospheric researchers to locate, access and interpret atmospheric data and to ensure the long-term integrity of atmospheric data produced by NERC projects.

To find out more about the BADC, please follow the links on the sub-tab sections above.

Search for Data:

Search for:  in: BADC • NERC Data Discovery Service

News

Latest on 20<sup>th</sup> October 2010: NERC Stakeholder Engagement - NERC Environmental Data Centres: do they meet your needs? BADC website and Services back in operational mode.

# Domain support – data centres & infrastructure

- ▷ These data repositories often do much more than accept and provide data
- ▷ Can advise researchers at project design stage
- ▷ Improve data description to make use easier by others
- ▷ Integrate data with larger collection (e.g. UniProt)



# QUESTIONS?

Do you have 5 minutes to let us know what you think of this website? [Take part in our](#)
[Home](#) | [Digital Curation](#) | [About Us](#) | [News](#) | [Events](#) | [Resources](#) | [Training](#) | [Projects](#) | [Comm](#)
[Home](#) > [Resources for Digital Curators](#) > [Policy and Legal](#)

## Policy and Legal

### Policy resources

#### [Overview of Funders' Data Policies](#)

A table and short summaries comparing research funders' policies

#### [Funders' Data Policies](#)

Detailed overview of each funder's policy, stating requirement for data plans, expectations on data sharing and available support.

#### [Institutional Data Policies](#)

A table listing example of UK universities research data policies. Add your examples!

#### [Policy Tools and Guidance](#)

Annotated bibliography of: 1) tools and guidance for creating policies; 2) example policies; 3) publications; & 4) data management guidance.

#### [Preservation policy template](#)

Template to help repositories define preservation policies

#### [Data management plans & DMP Online](#)

Summary of what funders ask for in plans and the DCC's tool to help

<http://www.dcc.ac.uk/resources/policy-and-legal>

# DCC Policy Summary

### In this section

[Curation Reference Manual](#)
[Curation Lifecycle Model](#)

#### [Policy and Legal](#)

[Overview of Funders' Data Policies](#)
[Funders' Data Policies](#)
[Institutional Data Policies](#)
[Policy Tools and Guidance](#)
[Freedom of Information](#)
[FAQs](#)
[MRC Data Plan FAQs](#)
[Open Source FAQs](#)
[Data Management Plans](#)
[Case Studies](#)
[Tools and Applications](#)
[Briefing Papers](#)
[How-to Guides](#)
[Standards](#)
[Publications](#)
[External Resources](#)

- ▷ Significant long-term funding for national services & support
- ▷ ANDS – data discovery, software, skills, coordination, advice
- ▷ National storage & HPC infrastructure
- ▷ Financial incentives for universities to use common services in standard ways

- ▷ Like Australia, national research funding but province-level university funding
- ▷ Two initiatives – one from universities (PROTAGE), one from federal level (RDC)
- ▷ Data management planning, discovery, skills, repositories
- ▷ Common tools for local deployment

- ▷ Strong national data repository – DANS
- ▷ One cooperative service – 3TU (now 4TU)
- ▷ Combined to produce RDNL – back office tech services, front office liaison
- ▷ National Dataverse instance
- ▷ Some shared services now being proposed by SURF-SARA



- ▷ Existing national publication repository
- ▷ Extending to cover research data
- ▷ One provider, university-branded front-ends
- ▷ Copying other aspects of UK model – e.g. regular meetings for professional staff, funders, other stakeholders

- ▷ Scale means many initiatives
- ▷ Much is NSF project-funded
- ▷ Some existing university collaborations
- ▷ Similar spread to UK – 3 or 4 tiers from Ivy League to small institutions
- ▷ Very complex funding model
- ▷ Technology is useful – models less so