What are other universities doing to support RDM?

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Twitter: sjDCC

RDM workshop, 16th May 2013, University of Nottingham
Outline

• RDM projects and programmes

• Overview of roles and services

• Specific examples of work in other unis
Jisc MRD programmes

Managing Research Data programmes funded by the Jisc:

• MRD 01: October 2009 – July 2011
  – £4.3 million investment
  – www.jisc.ac.uk/whatwedo/programmes/mrd.aspx

• MRD 02 – October 2011 – July 2013
  – £4.6 million investment
  – www.jisc.ac.uk/whatwedo/programmes/di_researchmanagement/managingresearchdata.aspx

Programme Manager: Simon Hodson  s.hodson@jisc.ac.uk

Twitter: #jiscmrd
DCC Institutional Engagements

With funding from HEFCE we’re:

• Working intensively with 21 HEIs to increase RDM capability
  – 60 days of effort per HEI drawn from a mix of DCC staff
  – Deploy DCC & external tools, new approaches & best practice

• Support varies based on what each institution wants/needs

• Lessons & examples will be shared with the community

www.dcc.ac.uk/community/institutional-engagements
Common RDM activities

• Establishing steering groups
• Making the case for RDM
• Assessing needs
• Developing policy and strategy
• Piloting tools
• Offering DMP consultations
• Delivering training
• Setting up guidance websites
• ...

Who should be involved?

- Research organisations
- Funders
- Data centres
- Research organisations
- Researchers
- Support services
- IT
- Library
- Ethics
- Research office
- Advisory bodies
How to develop RDM services

And case studies:

• Training for librarians
• Increasing participation in training
• Developing RDM services at Monash Uni
• ...

www.dcc.ac.uk/resources/developing-rdm-services
Components of RDM services

1. RDM policy and strategy
2. Business plans and sustainability
3. Data Management Planning
4. Data catalogues
5. Managing active data
6. Data repositories
7. Data selection and handover
8. Guidance, training and support
## Institutional RDM policies

<table>
<thead>
<tr>
<th>Institution</th>
<th>Policy name</th>
<th>Date released</th>
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<tbody>
<tr>
<td>University of Edinburgh</td>
<td>Research Data Management Policy</td>
<td>16 May 2011</td>
</tr>
<tr>
<td>University of Northampton</td>
<td>Research Data Policy</td>
<td>June 2011</td>
</tr>
<tr>
<td>University of Hertfordshire</td>
<td>Data Management Policy&lt;br&gt;(see s.7 on research data and the appendix 'Guide to RDM')</td>
<td>1 Sept 2011</td>
</tr>
<tr>
<td>University of Warwick</td>
<td>Research Data Management Policy</td>
<td>7 Nov 2011</td>
</tr>
<tr>
<td>Glyndwr University</td>
<td>Policy on the Management of and Access to Research Data</td>
<td>20 December 2011</td>
</tr>
<tr>
<td>University of Southampton</td>
<td>Research Data Management Policy</td>
<td>February 2012</td>
</tr>
<tr>
<td>University of East London</td>
<td>Research Data Management Policy for UEL</td>
<td>15 March 2012</td>
</tr>
<tr>
<td>Brunel University</td>
<td>Research Data Management Vision</td>
<td>20 March 2012</td>
</tr>
<tr>
<td>Queen Mary, University of London</td>
<td>Research Data Management Policy</td>
<td>7 June 2012</td>
</tr>
<tr>
<td>University of Sheffield</td>
<td>Research Data Management Policy</td>
<td>July 2012</td>
</tr>
<tr>
<td>University of Leeds</td>
<td>Research Data Management Policy</td>
<td>July 2012</td>
</tr>
<tr>
<td>University of the Arts London</td>
<td>Research Data Management policy</td>
<td>October 2012</td>
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Early research data policies

“Statement of commitment”
→ Infrastructure → policy

“10 commandments”
mutual promises
aspirational

Baseline of RCUK Code
+ procedures & support

legal tone / language
a section in uni DM policy
useful guide as appendix

Based on Edin.
with a few additions
RDM strategies and roadmaps

A series of blog posts
www.dcc.ac.uk/news

Links to example roadmaps
http://tiny.cc/EPSRCRoadmaps
University of Bath RDM roadmap

- Based on Monash University RDM strategy
- Identifies the current position and proposes activity
- Defines roles and responsibilities and timeframes

<table>
<thead>
<tr>
<th>Objectives</th>
<th>Actions</th>
<th>Milestones</th>
<th>Roles &amp; Responsibilities</th>
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<tbody>
<tr>
<td>1.1 Develop the data management skills and knowledge of Bath researchers</td>
<td>Initiate and coordinate a program of research data management (RDM) skills development for Bath researchers</td>
<td>Pilot RDM skills development to new Bath researchers from September 2013</td>
<td>Associate Deans of Research</td>
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<td></td>
<td>Work with Faculties, DTCs and the Bath Graduate Schools to explore embedding research data management skills development in coursework curricula and professional development offerings</td>
<td>High quality training delivered (participant feedback, impact notes)</td>
<td>Doctoral Training Centres and Graduate Schools</td>
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<td>Library/UKOLN/BUCS</td>
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<td>Learning &amp; Teaching Enhancement Office &amp; Researcher Development Unit</td>
</tr>
</tbody>
</table>

| 1.2 Develop the skills and knowledge of key professional services staff | Initiate and coordinate a program of research data management skills development for key professional services staff at Bath | Pilot RDM skills development to key professional services staff from September 2013 | Library/BUCS |
| Library | Seek opportunities for professional services staff to network and participate in communities of practice – internally, nationally and internationally | High quality training delivered (participant feedback, impact notes) | RDSO |
| BUCS | Promote research data management career paths within professional support services where appropriate | Support Bath staff participation in DCC meetings (RDMF, ICDC etc.) | Staff Development Unit |
| RDSO | | | Data Scientist* |

http://www.bath.ac.uk/rdso/University-of-Bath-Roadmap-for-EPSRC.pdf
Guidance webpages

www.gla.ac.uk/datamanagement

www.bath.ac.uk/research/data
Disciplinary RDM training

The training materials they created are mapped to the lifecycle model below. The projects were:

- CAiRO - performing arts
- DataTrain - archaeology and social anthropology
- DATUM for health - health studies
- DMTpsych - psychology
- Research Data MANTRA - geosciences, social science & clinical psychology

www.dcc.ac.uk/training/train-trainer/disciplinary-rdm-training
Online training for PhD students

Research Data MANTRA is a course designed for PhD students and others who are planning a research project using digital data.

The online learning units on the left cover a number of important topics. To begin, click on the first unit, Introduction to the course and page through.

After, work through one of our software-specific data handling practicals.

Feel free to view our project website, guidance for research staff, read some testimonials, find out who contributed content, or give us feedback on the course, using the menu along the top.

View an A5 leaflet in pdf or a conference poster about MANTRA.

This course is an Open Educational Resource that may be freely used by anyone. It is available through a Creative Commons open attribution license for re-using, rebranding, repurposing.

http://datalib.edina.ac.uk/mantra
Training for support staff

• RDM for librarians, DCC
  http://www.dcc.ac.uk/training/rdm-librarians

• RDMRose, University of Sheffield
  http://rdmrose.group.shef.ac.uk

• Data Intelligence for librarians, 3TU, Netherlands
  http://dataintelligence.3tu.nl/en/about-the-course

• DIY Training Kit for Librarians, University of Edinburgh
  http://datalib.edina.ac.uk/mantra/libtraining.html

• SupportDM modules, University of East London
  http://www.uel.ac.uk/trad/outputs/resources
Data Management Planning support

- Guidelines / templates on what to include in plans
- Example answers, guidance and links to local support
- A library of successful DMPs to reuse
- Tailored consultancy services
- Online tools (e.g. customised DMPonline)
- Links / flags embedded in grant systems
- ...
Research data storage at Bristol

- £2m funding to date
- Petascale facility – expandable
- 3 machine rooms – resilience (tape archive 2012)
- Available to all researchers for research data

1st 5TB free per Data Steward then £400 per TB p.a. for disk storage; tape backup £40 per TB

http://data.bris.ac.uk
University of Edinburgh filestore

- Implements 0.5TB per researcher
- Many access mechanisms
- Daily file versioning
- Technologies: samba, linux nfs, ctdb, sshfs (expandrive)

Details from Tony Weir’s presentation:
www.heids.ac.uk/resources/HEIDS_RDSM_Storage_Infrastructure.pdf
Tools – an ‘academic dropbox’

MRD Hack Days: File backup, sync and versioning, or “The Academic Dropbox”

Blog post outlining the requirements
http://blogs.bath.ac.uk/research360/2012/05/mrd-hack-days-file-backup-sync-and-versioning-or-the-academic-dropbox

Piloted at Lincoln & Edinburgh
http://tiny.cc/owncloud-pilot

Potential for national level negotiation via Janet brokerage?
Tools to ease data creation & deposit

www.dataflow.ox.ac.uk

A two-stage data management infrastructure that makes it easy for research groups to work with, annotate, publish, and permanently store their research data.

http://dataup.cdlib.org

A tool to help researchers document, manage, and archive tabular data. It integrates with Microsoft® Excel.
Institutional data repositories

Not intended to replace national, subject or other established data repositories

Acknowledge hybrid environment

http://datashare.is.ed.ac.uk

www.dspace.cam.ac.uk

Research Data at Essex and DataPool at Southampton

https://databank.ora.ox.ac.uk
Data catalogues

• Oxford is developing its DataFinder tool – http://blogs.it.ox.ac.uk/damaro

• Research Data @ Essex has developed a profile based on DataCite, Inspire and DDI standards - www.data-archive.ac.uk/media/395364/rde_march2013_repositoryoutputs.pdf

• C4D is developing a research data extension to the CERIF standard - http://cerif4datasets.wordpress.com

• CKAN is being explored by various projects - http://ckan.org

• JISC & DCC plan a national register like Research Data Australia
Bringing it all together into a service

Diagram courtesy of Sally Rumsey, University of Oxford
Thanks – any questions?

DCC guidance, tools and case studies:

www.dcc.ac.uk/resources

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@digitalcuration and #ukdcc