RDM: Advocacy, Approaches and Tools

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The Library, Lancaster University
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Today’s agenda

- Policy
- Advocacy
- Tools
- Sustainability
Policy

Response to EPSRC’s expectations
Approved in February 2013
Revised in 2015
Will be revised again in 2018

www.lancaster.ac.uk/library/rdm/policy
Key points from the policy

Responsibility lies with Principal Investigator

Each project will have a Data Management Plan

As a minimum, research data directly associated with publications should be archived

All research data is stored for a minimal of 10 years unless required otherwise
What can be improved further?

Impact of GDPR on research data

Whether each project must have a DMP?

Specific statements for PhD students

Add Library in the policy
Advocacy

Top down to begin with - PVC Research
ROADMaP Steering Group
Associate Deans for Research, Research Support Office, Library and IT Services
Central trainings and departmental meetings
Surgeries and individual support
Advocacy - Lessons learnt (1/2)

Top down is temporarily effective

If engaged, research directors can play a crucial role

Research data as a central training is a boring topic

Peer progression can take a long time unless you have lots of engaged staff
Advocacy - Lessons learnt (2/2)

Continuous mixing up of approaches
Data Champions, Data Stewards, etc
Make it about their research
Lancaster Data Conversations
Offer food (we offer Pizza, cakes, tea and coffee)
Tools

Tough decision on selection of repository

Decided to use Pure - familiar interface

Developed Mint - a DOI minting tool

Developed our own Pure data extraction software - interoperability issues
Problem

At the time, Pure did not have the capability to mint DOIs. When the capability was developed, it would mint DOIs with minimal DataCite metadata. You are not able to reserve DOIs, neither can you mint DOIs for any other research output than research data.
Tools - Mint (1/3)

**Status**

Pure ID: 123456

**DOIs**

Full-text search for minted DOIs on title, description, keywords, person name, DOI, sizes, file rights and Pure UUID. For example, using *regulat* as a word prefix would match the whole words *regulate*, *regulatory* and *Regulation*.

Word prefix: regulat

[Search]

[DOIs] [DOI reservations]
Tools - Mint (2/3)

Mint a DOI

Dataset for Design of 71-76 GHz Double-Corrugated Waveguide Traveling-Wave Tube for Satellite Downlink

Letizia, Rosa
218311186
Dataset
Tools - Mint (3/3)

DOIs

10.17635/lancaster/researchdata/198

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10.17635/lancaster/researchdata/196

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Tools

Alternative options for data repository in 2016
Preservation was a key requirement
Jisc Research Data Shared Service Pilot
DMAOnline for reporting and analytics
Esploro Development Partner
Problem

RDM is a complex domain. It is really difficult to see administrative data about RDM in one place aggregated from multiple systems and at different levels of detail. Reporting is also complicated.
Data Management Administration Online

- **Dashboard for reporting or end points for Tableau**
- **DMAOnline ingest engine**
- **Messages and Events**
- **Jisc Research Data Shared Service**
Tools - DMAOnline (1/2)

Data Management Administration Online reports & statistics

By institutional division

- 13 All datasets
- 6 RCUK datasets
- 6 DMPs produced
- 5 Projects without DMPs
- 11 All DMPs
- 63TB Storage requirements
- £32,144 Storage cost
- 0% RCUK access compliance
## Tools - DMAOnline (2/2)

### Data Management Administration Online reports & statistics

#### Filters

- January 1, 2000 - January 2, 2018
- Faculty of Science and Technology

#### All datasets

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<th>Funder</th>
<th>Dataset ID</th>
<th>Lead Faculty</th>
<th>Lead Dept</th>
<th>Project</th>
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<td>FST</td>
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<td>Physics</td>
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<td>2011-10-01</td>
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Sustainability

In current form, RDM will be non-sustainable for us

Depends on academic culture shift

Lancaster Data Conversations as a key enabler

Embedding activities in departments

PRomoting Open Science PRactices - PROSPR
Lancaster Data Conversations

AGENDA
- First three Presentations
  1. Leif Isaksen, Does Linked Data have to be Open?
  2. Jude Towers, Is Violent Crime Increasing or Decreasing?
  3. Alison Scott-Baumann, Protecting participants and their data on a sensitive topic
- Second round of short talks
  4. David Ellis, Building interactive data visualizations to support publications
  5. Chris Jewett, Efficient sharing of numerical output
  6. Chris Donaldson & James Butler, Mining and mapping places with multiple names

30 JANUARY 2017

http://wp.lancs.ac.uk/highly-relevant/
#ludatacon
Informal support group within Psychology Members have been involved in:

- Registered reports
- Lab replication projects
- Study preregistrations
- Open access and open data
Showcasing the service

How good is your service for your researchers?

Data driven - We use CSAT for evaluating this

<table>
<thead>
<tr>
<th>Overview</th>
<th>Leaderboard</th>
<th>Knowledge Base</th>
<th>Community</th>
<th>Search</th>
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<td>Median first reply time</td>
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<td>Consumer satisfaction</td>
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<td>↓ 33%</td>
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<td>no change</td>
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Customer Satisfaction | 100%

- 8 Good ratings
- 0 Bad ratings
- 14 Surveys sent
- 57% Response rate
Moving forward

Impact of GDPR on research data
Implementation of Research Data Shared Service
Discovery and reuse of research data
Data citations and software citations
Impact of Machine Learning and Linked Data
Thank you

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