DMPonline: the DCC’s Data Management Planning tool

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Programme

• DMPonline features
• Live demo of DMPonline front end
• Roadmap of future developments to DMPonline
What is DMPonline?

A web-based tool to help researchers write data management plans

A short history

• Launched in April 2010 at the Jisc conference
• Released v.2 in March 2011 with extra functionality
• Released v.3 in April 2012 with revisions in light of the DMPTool and work from the Jisc MRD programme
• Released v.4 in December 2013, incorporating major changes from evaluation
Main features in DMPonline

- Templates for different requirements (funder or institution)
- Tailored guidance (funder, institutional, discipline-specific etc)
- Ability to provide examples and suggested answers
- Supports multiple phases (e.g. pre- / during / post-project)
- Granular read / write / share permissions
- Customised exports to a variety of formats
- Shibboleth authentication
How DMPonline works

Users answer three short questions so know what template and guidance to present...

...and then write the DMP using the guidance provided.

29th January 2015 DC101 London
The ESRC requires that all applicants seeking ESRC funding include a statement on data sharing in the relevant section of the Je-S application form. If data sharing is not possible, the applicant must present a strong argument to justify their case.

<table>
<thead>
<tr>
<th>Sections</th>
<th>Questions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Existing data</td>
<td>- An explanation of the existing data sources that will be used by the research project (with references)</td>
</tr>
<tr>
<td></td>
<td>- An analysis of the gaps identified between the currently available and required data for the research</td>
</tr>
<tr>
<td>Information on the data that will be produced</td>
<td>- Methodologies for data collection</td>
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<tr>
<td></td>
<td>- Data volume and data type, e.g. qualitative or quantitative data</td>
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<tr>
<td></td>
<td>- Data quality, formats, standards, documentation and metadata</td>
</tr>
<tr>
<td>Planned quality assurance and back-up procedures (security/storage)</td>
<td>- Quality Assurance</td>
</tr>
<tr>
<td></td>
<td>- Back-Up</td>
</tr>
<tr>
<td>Management and archiving of collected data</td>
<td>- Plans for management and archiving of collected data</td>
</tr>
<tr>
<td>Overcoming data sharing difficulties</td>
<td>- Expected difficulties in data sharing, along with causes and possible measures to overcome these difficulties.</td>
</tr>
<tr>
<td>Consent, confidentiality, anonymisation and other ethical considerations</td>
<td>- Explicit mention of consent, confidentiality, anonymisation and other ethical considerations</td>
</tr>
<tr>
<td>Copyright and intellectual property ownership of the data</td>
<td>- Copyright and intellectual property ownership of the data</td>
</tr>
<tr>
<td>Responsibilities for data management and curation</td>
<td>- Responsibilities for data management and curation within research teams at all participating institutions</td>
</tr>
</tbody>
</table>
Different stages of a DMP

**NERC Outline DMP**
- Basic, short plan
- Answer 3 questions
- Written at grant application stage

**NERC Full DMP**
- Detailed plan
- Define procedures
- Written in conjunction with data centres

[www.nerc.ac.uk/research/sites/data/dmp.asp](http://www.nerc.ac.uk/research/sites/data/dmp.asp)
NERC phases in DMPonline

Centre for the Observation and Modelling of Earthquakes and Tectonics (COMET)

Data management procedures (5 questions, 6 answered)

Existing datasets (1 question, 1 answered)

New datasets (1 question, 1 answered)

Datasets likely to be created by the grant or fellowship which will be made available to a NERC Environmental Data Centre at the end of the Grant

NEODC
- Satellite observations
  - Release data to data centre: within 6 months of publication or earlier if possible
  - Reuse scenario: other earth scientists and meteorologists

NEODC
- Earthquake prediction models
  - Release data to data centre: within 6 months of publication or earlier if possible
  - Reuse scenario: Earth scientists and government agencies

Save

Answered 11 months ago by Sarah Jones

NERC Guidance

Datasets likely to be created by the grant or fellowship which will be made available to a NERC Environmental Data Centre at the end of the Grant. This section should be in a tabular format addressing the following:

- **Data centre**: the most appropriate NERC Data Centre – projects can contribute to more than one Data Centre
- **Dataset Description**: 1-2 sentences describing the data
- **Release data to Data Centre**: noting that data should normally be delivered to a data centre within 2 years of collection
- **Reuse scenarios**: possible user types and estimate of numbers if possible

Export
Share plans with collaborators

Withdrawal of services for young people

You can share your plan to allow others to read or edit it. Please insert the email address of the person you wish to share it with. You can leave a note to explain why you are sharing the plan, or what you wish them to look at.

Collaborators

<table>
<thead>
<tr>
<th>User name</th>
<th>Permissions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sarah Jones</td>
<td>Owner</td>
</tr>
<tr>
<td>Laura Moloy</td>
<td>Read only</td>
</tr>
</tbody>
</table>

Add collaborator

Allow colleagues to read-only, edit your plan or become co-owners
# Exporting plans

## Withdrawal of services for young people

**ESRC Data Management Questions**

### Existing data

<table>
<thead>
<tr>
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<th>Answers</th>
</tr>
</thead>
<tbody>
<tr>
<td>- An explanation of the existing data sources that will be used by the research project (with references)</td>
<td>The ESOS archive has been systematically searched using a series of search terms related to and withdrawal, impacts, and/or: children and young people. Our overall assessment is that there are datasets adequately address the aims of this project. The following datasets are tangentially related to this project:</td>
</tr>
<tr>
<td>- An analysis of the gaps identified between the currently available and required data for the research</td>
<td>Given the contemporary nature of the proposed project, we know of no datasets that cover users' views and experiences of austerity measures and service withdrawal. The proposed project will therefore identify and unprecedented data, for which there is an evident demand among national and regional stakeholders and service-providers (see Pathways to Impact attachment). Moreover, whilst some longitudinal data, none includes data gleaned from oral history and multigenerational family interviews. The proposed project therefore represents an extension to the methods and data related projects listed in section 1. Finally, the novel use of 'impact' activities to generate data (e.g. software) exceeds the scope of all extant and even tangentially-related datasets.</td>
</tr>
</tbody>
</table>

### Information on the data that will be produced

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<td>- Data volume and data type, e.g. qualitative or quantitative data</td>
<td>The project shall generate new quantitative data (Bristol Online Survey outputs, SPSS data and output; digital audio files, audio transcripts, digital photographic and video data, workshop outputs, NVivo files (TIFF files). Metadata, in the form of pdfs and Excel spreadsheets, shall be used to facilitate the management of these data. Data shall be stored in password-protected folders on the host institution's secure servers. Data transfer between the PI and Co-I shall take place via face-to-face meetings.</td>
</tr>
<tr>
<td></td>
<td>Quantitative data shall be generated from an anonymous online survey (target 10,000 responses). The survey will be administered via Bristol Online Surveys (BOS) software: a secure, quality-assured, widely-used online survey tool. Data will be exported to SPSS for analysis.</td>
</tr>
</tbody>
</table>
Example DMPs

- Technical plan submitted to AHRC by Bristol Uni
  
  [link](http://data.blogs.ilrt.org/research/planning/files/2013/08/data.bris-AHRC-guide-V3_0.pdf)

- University of Leeds examples (social science)
  
  [link](www.dcc.ac.uk/sites/default/files/documents/adocs/Leeds-RoaDMaP-DMPs.pdf)

- Rural Economy & Land Use (RELU) programme examples
  
  [link](http://relu.data-archive.ac.uk/data-sharing/planning/examples)

- UCSD example DMPs (20+ scientific plans for NSF)
  
  [link](http://rci.ucsd.edu/dmp/examples.html)

More at: [link](www.dcc.ac.uk/resources/data-management-plans/guidance-examples)
DCC Checklist for a DMP

- 13 questions on what’s asked across the board
- Prompts / pointers to help researchers get started
- Guidance on how to answer


Used in the tool as a generic template and DCC guidance
DMPonline Live Demo
Roadmap of future developments to DMPonline

• API – for plan creation

• Internationalisation of all site text – change language based on IP, user organisation, or from a dropdown

• Tailored content displayed by IP, or user organisation, or from a dropdown (e.g. alter list of funders)

• Snapshots of plans

• Set a plan status (e.g. ‘Draft’; ‘Ready for review’; ‘Approved’; ‘Complete’)

• More types of permissions when sharing a plan (e.g. ‘Reviewer’)

29th January 2015 DC101 London
Roadmap of future developments to DMPonline (cont.)

- Comment feature for each question
- Answer history
- Build in flags/triggers so institutions can set alerts based on user’s answer
- Export a plan as an email submission
- Public URL for plans
- SWORD deposit
Want to use DMPonline?

• Sign up at: https://dmponline.dcc.ac.uk

• Request new features on GitHub: https://github.com/DigitalCurationCentre/DMPonline_v4

• Contact us about collaboration on: dmponline@dcc.ac.uk
Thanks – any questions?

DCC guidance, tools and case studies:
www.dcc.ac.uk/resources

Follow us on twitter:
@digitalcuration and #ukdcc