



# JISC Research Data Programme

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- The potential and value of research data for sharing and reuse is increasingly being recognised.
- Pressures for better management, sharing and reuse of data.
- Increasing view that the outputs of publicly funded research are a public asset which should be made as widely available as possible.
- Applies to data as much as to published outputs.

- **Research Councils:** majority now mandate or encourage DMPs and deposit of data - <http://www.dcc.ac.uk/resource/curation-policies/>
- **RIN Framework** of principles and guidelines for the stewardship of digital research data - <http://www.rin.ac.uk/data-principles>
- **Scholarly journals** in increasing numbers are requiring that access be provided to underlying data sets - <http://www.nature.com/nature/journal/v458/>
- A shift from article to the data as the objective of scholarly endeavour has been observed in some subject areas.

## Benefits of data management

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- Good data management is good science.
- Data sharing and reuse brings benefits.
- Data sharing increases citation rate – Piwowar, et al. (2007) ‘Sharing detailed research data is associated with increased citation rate’, PLoS ONE 2(3): e308. doi:10.1371/journal.pone.0000308
- Potential of data sharing in developmental psychology – Friedman, S.L. (2007), Finding treasure: data sharing and secondary analysis in developmental science. Introduction to special edition of the *Journal of Applied Developmental Psychology* 28, pp.384-389.
- RELU Programme’s Data Management Policy sees making data available as essential for the programme’s interdisciplinary objectives - <http://www.relu.ac.uk/about/data.htm>

- JISC Research Data Programme seeks to expand effective data management and data sharing to benefit research and the HE sector more generally.
- Working towards developing a national strategy with key stakeholders (RCs, FCs, Institutions etc).
- Establish the foundations for an effective research data infrastructure.

- Data management solutions within RC funded projects.
- Examining the way projects are responding to RC policies.
- Implementation of Data Management Plans.
- Case studies of data management solutions.
- Five projects from Sept/Oct 2009.

- Data Management Planning tools.
- Building on DAF and other initiatives.
- Revised methodology and tool for scoping data assets.
- First iteration of a revised tool by Autumn 2009?
- Planning and costing tool. Project from Spring 2010.

- Calls in preparation for the early Autumn.
- **Interoperability:** overcoming barriers to reuse.
- Covering such areas as:
  - access management, identification and handshaking
  - data search and discovery
  - identifiers
  - metadata standards and controlled vocabularies.
- **Data publications:** data journals, overlay journals, data and theses.

- DCC has an important role to play in the JISC Research Data Programme.
- Important task of building capacity and skills in the sector.
- Sector capacity to be raised by the dissemination of relevant resources, awareness-raising measures, and the provision of training.

- What is needed to provide an identified group (or groups) of researchers (within this institution or across a consortium of institutions) with an effective research data infrastructure, in technical and organisational terms as well as in respect of the requirements relating to professional expertise?

- Funding is available for projects:
  - **to identify requirements** to manage data created by researchers within an institution or a group of institutions, *and then*
  - **to deploy a pilot data management infrastructure** to address these requirements.
  
- What is needed to provide an identified group (or groups) of researchers (within this institution or across a consortium of institutions) with an effective research data infrastructure, in technical and organisational terms as well as in respect of the requirements relating to professional expertise?

- Analysis of data management requirements.
- Pre-implementation planning.
- Implementation of a robust and appropriate data management solution.
- Report on findings, benefits and possible business models.

- Analysis of data management requirements.
  - Identification of data assets and requirements.
  - DAF (methodology and tool)?
  - Revised Data Asset Framework in place by the Autumn.
- Pre-implementation planning.
  - Scoping of solutions.
  - Adapting existing tools?

- Implementation of a robust and appropriate data management solution.
  - Effective in human as well as technical terms.
  - Make best use of existing expertise.
  - Align practice in order to achieve solution with a minimal overhead.
- Report on findings, benefits and possible business models.
  - Can a case be made to other institutions for the benefits of provision for better data management and sharing?
  - Can the benefits be quantified or easily described in qualitative terms?
  - What forms are business cases for investment in data management likely to take?
  - Programme support project to help with this activity and pull together findings.

## Single Institutions or Consortia?

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- Bids may equally well come from single institutions or from consortia.
- The important thing is to ***work closely with a defined group of researchers.***
- Solutions may be at research group, departmental, faculty or institutional level.
- *A solution which encourages data sharing among research groups across institutions?*
- *A solution which brings together the relevant expertise within an institution (e.g. library and information management, computing service, research support etc)?*

- **Work closely with an identified group of researchers.**
- Successful data management will minimise the overhead on researchers.
- Integrate as smoothly as possible researchers' workflows and practice with requirements of data management.
- Data curation lifecycle:  
<http://www.dcc.ac.uk/docs/publications/DCCLifecycle.pdf>

- Support available from the DCC.
- Helpdesk: [info@dcc.ac.uk](mailto:info@dcc.ac.uk)
- Digital Curation 101-lite course. Announcement pending.

- Up to £250,000 per project.
- 6-8 Projects.
- Total of £1.5M available.
- Deadline for submission by e-mail: 12 noon, Thursday 6 August.
- Submissions to [RESEARCHDATA@jisc.ac.uk](mailto:RESEARCHDATA@jisc.ac.uk)
- Evaluation panel, 7 September.
- Projects to start in October 2009.
- Projects to complete by 31 March 2011.