Supporting Good Practice in Research Data Management: Edinburgh's Experience

Robin Rice, Data Librarian
EDINA and Data Library
Information Services
University of Edinburgh
#LIBER, Riga, Latvia: 4th July, 2014

Ten recommendations for libraries to get started with research data management

Final report of the LIBER working group on E-Science / Research Data Management

Birte Christensen-Dalsgaard et al
4-7-2012

4. Actively participate in institutional research data policy development, including resource plans. Encourage and adopt open data policies where appropriate in the research data life cycle.

UoE RDM Policy & Open Access to Data

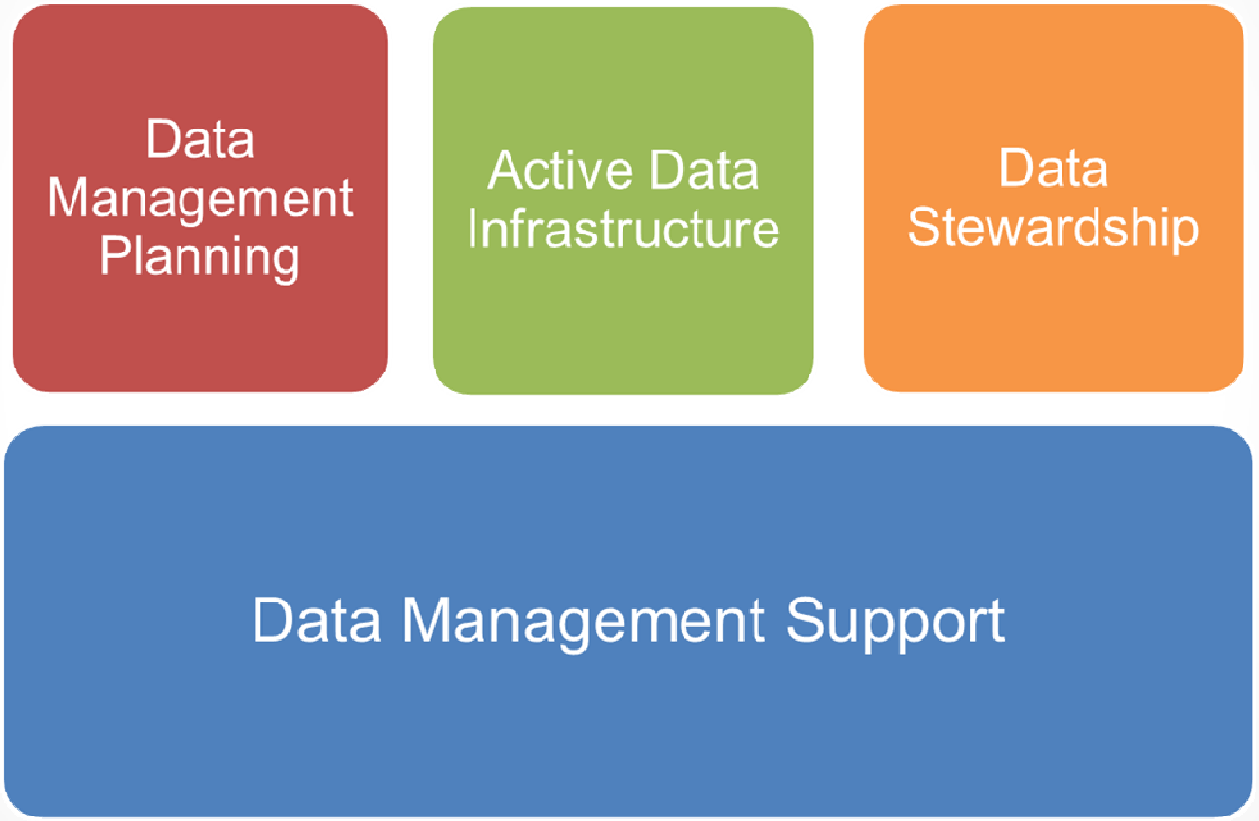
- "Research data of future historical interest, and all research data that represent records of the University, including data that substantiate research findings, will be offered and assessed for deposit and retention in an appropriate national or international data service or domain repository, or a University repository."

"The University will provide mechanisms and services for storage, backup, registration, deposit and retention of research data assets in support of current and future access, during and after completion of research projects."

"Any data which is retained elsewhere, for example in an international data service or domain repository should be registered with the University."

6. Support the lifecycle for research data by providing services for storage, discovery and permanent access.

UoE Research Data Management Roadmap (2012-2014)



1. Offer research data management support, including data management plans for grant applications, intellectual property rights advice and information materials. Assist faculty with data management plans and the integration of data management into the curriculum.

Research Data Management Programme

Research Data Management Programme

Find out more about the Research Data Management Programme at the University of Edinburgh

Why is data management important for your research?

Managing research data is becoming increasingly important. Find out how you can benefit from managing your data effectively

› **Why is data management important?**

DMP ONLINE

Data management planning

Guide on how to develop data management plans

› **Data management planning**

Storage & backup solutions

Information on storing and backing up your data

› **Storage & backup solutions**

Edinburgh DataShare

Sharing & publishing data

Find out about how to share and publish your data

› **Sharing & publishing data**

RDM training

Further details on the Research Data

Help & support

Contact details for Information Services

Quick links

› Research Data MANTRA

› Research Data Blog

MANTRA

Research Data Management Training

MANTRA is an online course designed for researchers or others planning to manage digital data as part of the research process.

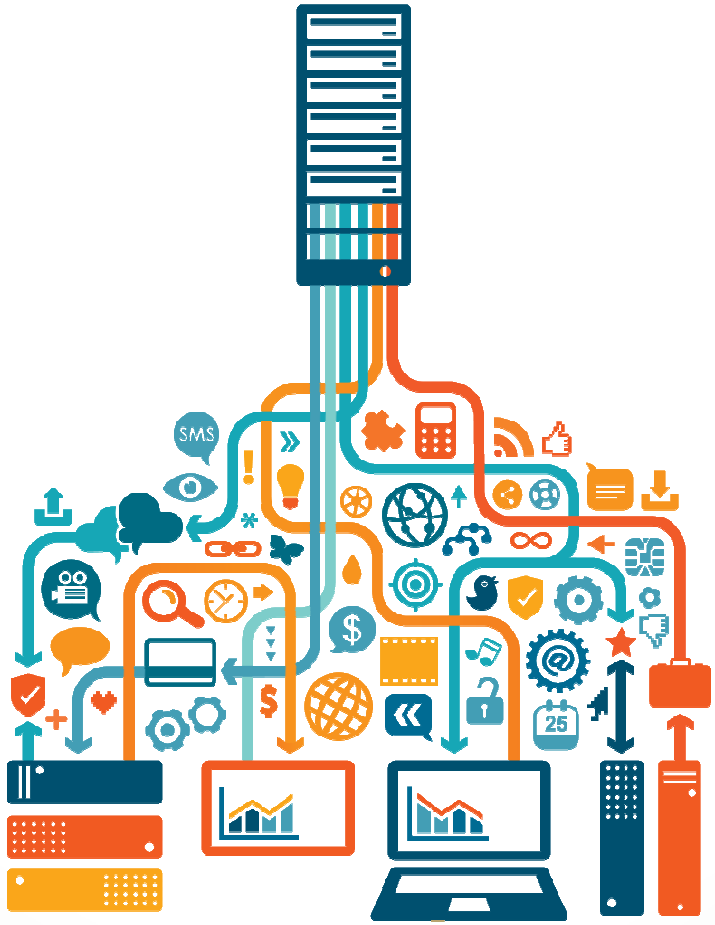
LEARNING UNITS

- Research data explained
- File formats & transformation
- Data protection, rights & access
- Data management plans
- Documentation & metadata
- Sharing, preservation & licensing
- Organising data
- Storage & security
- Software practicals
  - Data handling in SPSS 18
  - Data handling in R
  - Data handling in ArcGIS 9.3
  - Data handling in NVivo 9

Image by Cuna Ekmekcioglu

10. Offer or mediate secure storage for dynamic and static research data in co-operation with institutional IT units and/or seek exploitation of appropriate cloud services.

Active Data Store



2. Engage in the development of metadata and data standards and provide metadata services for research data.

7. Promote research data citation by applying persistent identifiers to research data.

8. Provide an institutional Data Catalogue or Data Repository, depending on available infrastructure.

DataShare – open data repository

Edinburgh DataShare

Edinburgh DataShare

Search Edinburgh DataShare

Go

Advanced Search

Browse

Edinburgh DataShare
- Research Communities
- Date Issued
- Data Creators
- Titles
- Subjects

My Account

Login
Register

RSS Feeds

RSS 1.0
RSS 2.0

What is Edinburgh DataShare?

Edinburgh DataShare is an online digital repository of multi-disciplinary research datasets produced at the University of Edinburgh, hosted by the Data Library in Information Services.

Edinburgh University researchers who have produced research data associated with an existing or forthcoming publication, or which has potential use for other researchers, are invited to upload their dataset for sharing and safekeeping. A persistent identifier and suggested citation will be provided.

Deposit Your Data

Deposit

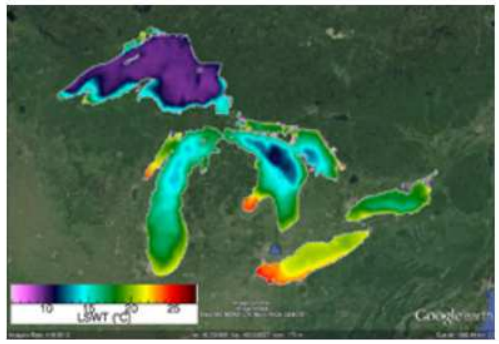
- How to deposit

Research Communities in Edinburgh DataShare

Select a community to browse its collections.

- **Business School**
- **Edinburgh College of Art**
- **Edinburgh Law School**
- **Information Services (IS)**
- **Moray House School of Education**
- **Royal (Dick) School of Veterinary Studies**
- **School of Biological Sciences**
- **School of Biomedical Sciences**
- **School of Chemistry**
- **School of Clinical Sciences**
- **School of Divinity**

Spotlight



Great Lakes

New to Edinburgh DataShare - ATSR Reprocessing for Climate: Lake Surface Water Temperature & Ice Cover (ARC-Lake) : School of GeoSciences. Edinburgh Earth Observatory (EEO)

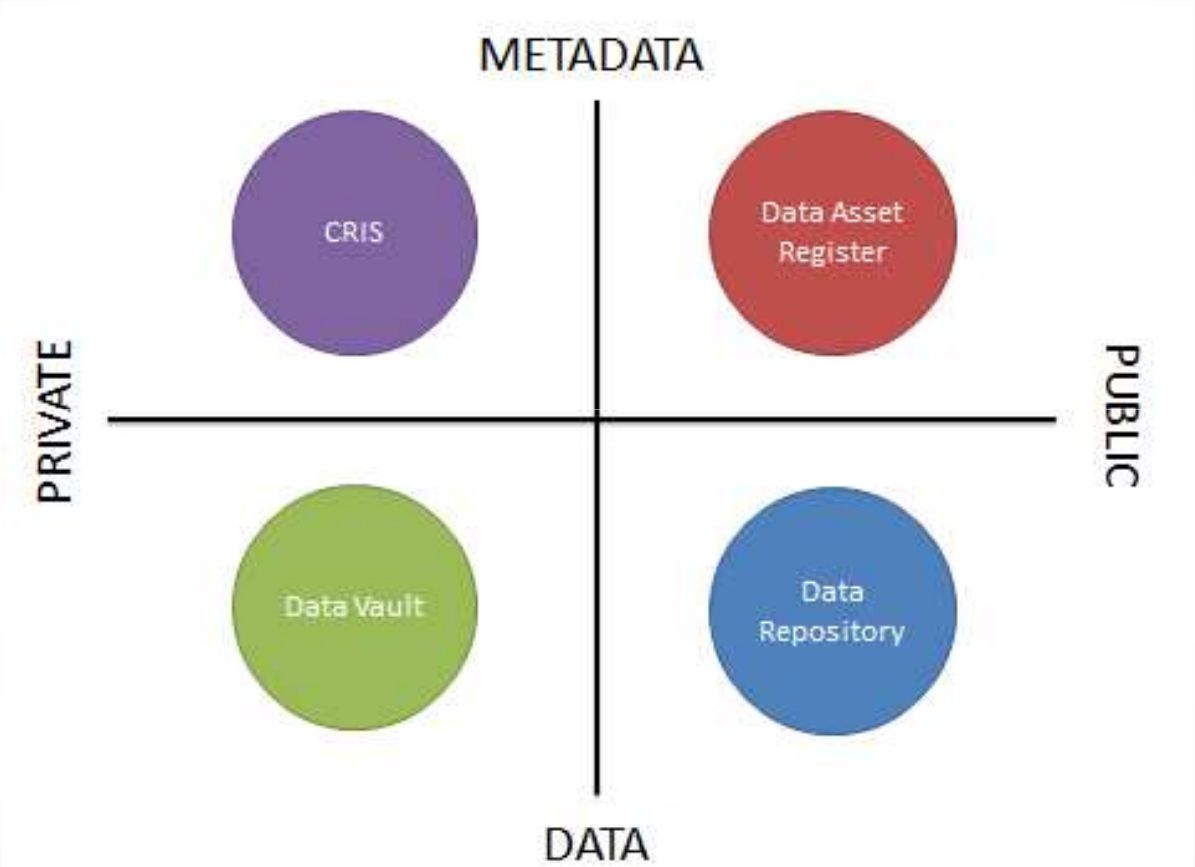
Information for Depositors

- About Edinburgh DataShare
- Checklist for deposit
- Benefits of deposit
- Service background
- Our definitions
- Service policies

Latest Items

- NyadhongoTwongObany_songAlaki (19 May 2014)
- BolAwangNyiker_songWijrek (19 May 2014)

DataShare & related UoE RDM services



From Stuart Lewis, 2013:
http://datablog.is.ed.ac.uk/2013/12/06/the-four-quadrants-of-research-data-curation-systems/

5. Liaise and partner with researchers, research groups, data archives and data centers to foster an interoperable infrastructure for data access, discovery and data sharing.

Dealing with Data – Call For Papers

Posted on June 25, 2014 by Stuart Lewis

THE UNIVERSITY of EDINBURGH

Dealing with Data Conference 2014
Call for Papers

Date:

Tuesday 26th August 2014, 9am – 1pm
Including a formal launch of the University Research Data Management services by the Principal at 11:30am

Location:

University of Edinburgh (room to be confirmed)

Themes:

Data creation
Data management planning
Data visualisation
Data archiving and sharing
Open Data
Data re-use
Electronic lab books
Data preservation
Software preservation
Non-traditional data types
Data analysis
New requirements for Research Data Management
Data infrastructure
Linked Data

No silos: interoperation

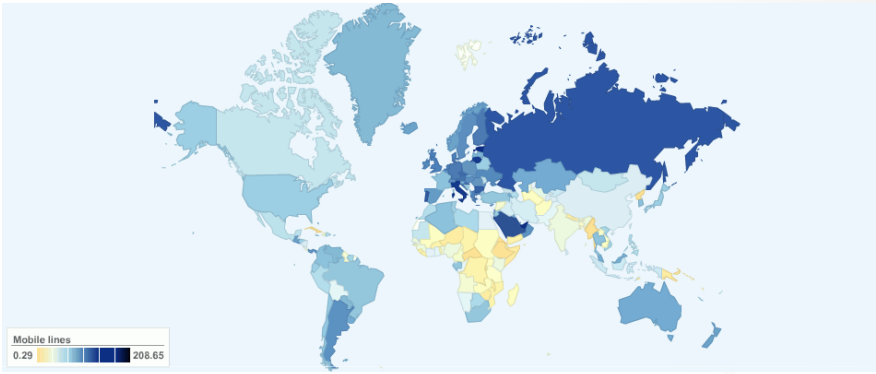
- Member COAR, RDA, UKCORR, Duraspace, IASSIST
- Pursuing Data Seal of Approval
- Joined DataCite via British Library
- COUNTER-compliant via IRUS-UK
- OpenAire guidelines
- Registries: Databib,Re3data, OpenDOAR, DCC Pilot
- Thomson-Reuters Data Citation Index
- Endorsed by F1000 Research
- Looking at AltMetrics

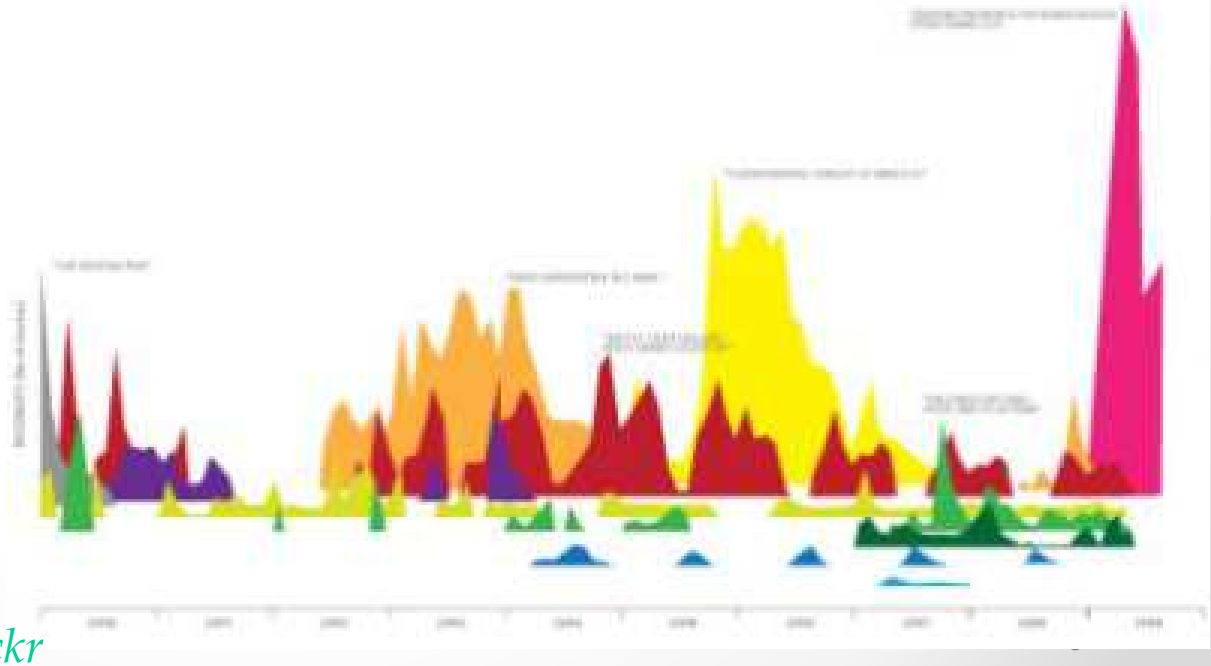
9. Get involved in subject specific data management practice.

3. Create Data Librarian posts and develop professional staff skills for data librarianship.

UoE Data Library Service

- finding…
- accessing …
- using …
- teaching …
- managing





ChartsBin and mkandlez on flickr

Do-It-Yourself Research Data Management Training Kit for Librarians

University of Stirling librarians
Image by Lisa Haddow

Thanks & Links

- Email: R.Rice@ed.ac.uk
- MANTRA: http://datalib.edina.ac.uk/mantra
- DIY RDM Training Kit: http://datalib.edina.ac.uk/mantra/libtraining.html
- UoE RDM Website: www.ed.ac.uk/is/data-management
- Data Library: www.ed.ac.uk/is/data-library
- Edinburgh Data Blog: http://datablog.is.ed.ac.uk