

# Four Steps to Effective Data Management

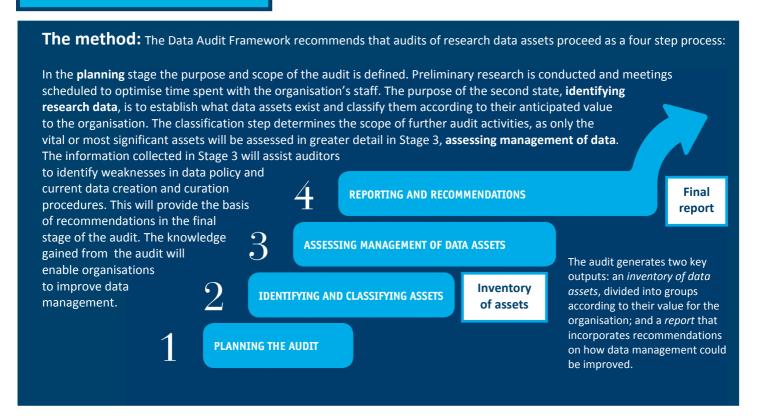
**Briefing paper, August 2008** 

The Data Audit Framework (DAF) provides organisations with the means to identify, locate, describe, and assess how they are managing their research data assets. DAF combines a set of methods with an online tool to enable data auditors to gather this information. DAF will help ensure that research data produced in UK HEIs is preserved and remains accessible in the long term.

## **Background**

Vast quantities of data are being created by researchers in UK higher education institutions, however few institutions have formal strategies in place for curating these research outputs. Moreover there appears in many institutions to be a lack of awareness as to what data are held and whether they are being managed. If institutions are to realise the full potential value of their data through its reuse they must be able to establish quickly and easily an overview of holdings and the policies and practices in place to manage them.

In response to these concerns the JISC issued a call for proposals to develop and implement a Data Audit Framework. A project was funded led by HATII at the University of Glasgow in association with the Digital Curation Centre to produce an audit methodology, online tool and registry. Four implementation projects were also funded to test the toolkit and promote its uptake. These are based at the University of Edinburgh, Imperial College, King's College and University College London.



The Data Audit Framework has been developed with JISC funding by a project led by HATII at the University of Glasgow in conjunction with the Digital Curation Centre. Further details can be found at: <a href="http://www.data-audit.eu">http://www.data-audit.eu</a>





## Benefits of auditing research data holdings

To manage data holdings effectively an organisation must first be aware of the location, condition and value of its research assets. Conducting a data audit provides this information, raising awareness of collection strengths and identifying weaknesses in data policies and management procedures.

Conducting an audit enables an organisation to:

- ✓ appreciate the full extent of its research data assets
- ✓ monitor holdings and avoid data leaks
- manage risks associated with data loss and irretrievability
- ✓ develop a data strategy and implement robust data policies
- ✓ improve workflows and benefit from efficiency savings
- ✓ realise the value of data through improved access and reuse



Several UK institutions are already using the audit methodology and online toolkit. These include:

- University of Glasgow
- University of Edinburgh
- UKOLN, University of Bath
- King's College London
- Imperial College London
- University College London
- University of Oxford
- University of Southampton

To find out more and to try out the tool visit: <a href="http://www.data-audit.eu">http://www.data-audit.eu</a>

"JISC should develop a Data Audit Framework to enable all Universities and colleges to carry out an audit of departmental data collections, awareness, policies and practice for data curation and preservation."

Recommendation from *Dealing with Data: Roles, Rights, Responsibilities and Relationships* (2007)

# Acknowledgements

Development of the Data Audit Framework is funded by the JISC through a grant from its Repositories Programme. The collaboration was made possible through the Digital Curation Centre which has acted as an umbrella for this work. The development team is grateful to the Steering Committee for its insights and to partners at the Universities of Edinburgh and Bath (UKOLN), King's College, Imperial College and University College London for piloting the DAF methodology and providing detailed feedback on its applicability. Our thanks also go to colleagues at HATII for implementing the online version of the toolkit.

### **Further information**

The Data Audit Framework online tool will be officially launched on 1st October 2008 at British Academy in London. The latest versions of the methodology detailing the complete workflow and tasks, and the online tool are available through the project's website. Support for those using the Data Audit Framework is available online at: <a href="http://www.data-audit.eu">http://www.data-audit.eu</a>

### Related projects and reports

The JISC has funded a number of related data projects under its repositories programme, such as DataShare, UK Research Data Strategy, and the DCC Digital Curation Summer School. Further details of all these projects can be found at: <a href="http://www.jisc.ac.uk/home/whatwedo/themes/information\_environment/researchdata.aspx">http://www.jisc.ac.uk/home/whatwedo/themes/information\_environment/researchdata.aspx</a>

Lyon, L. Dealing with Data: Roles, Rights, Responsibilities and Relationships, (Bath, 2007) <a href="http://www.ukoln.ac.uk/ukoln/staff/e.j.lyon/reports/dealing">http://www.ukoln.ac.uk/ukoln/staff/e.j.lyon/reports/dealing</a> with data report-final.pdf

 $McHugh, A., Ross, S., Ruusalepp, R., and Hofman, H. \textit{The Digital Repository Audit Method Based on Risk Assessment (DRAMBORA)}, (Glasgow, 2007) \\ \underline{http://www.repositoryaudit.eu}$ 

 $OSI\ e-Infrastructure\ Working\ Group.\ Developing\ the\ UK's\ e-infrastructure\ for\ science\ and\ innovation,\ (London,\ 2007)\ \underline{http://www.nesc.ac.uk/documents/OSI/report.pdf}$ 

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