

27/03/2018

Jisc Research Data Shared Service (RDSS)

Meeting needs outside the research data community



There is no single “solution” easily available and that meets **requirements** for Universities to enable better management of **research data**

research data network: <http://researchdata.network>

web: <https://www.jisc.ac.uk/rd/projects/research-data-shared-service>

github <https://github.com/JiscRDSS>



» Core Systems



» Preservation Development

THE UNIVERSITY
of EDINBURGH

» Records and Archives Pilot

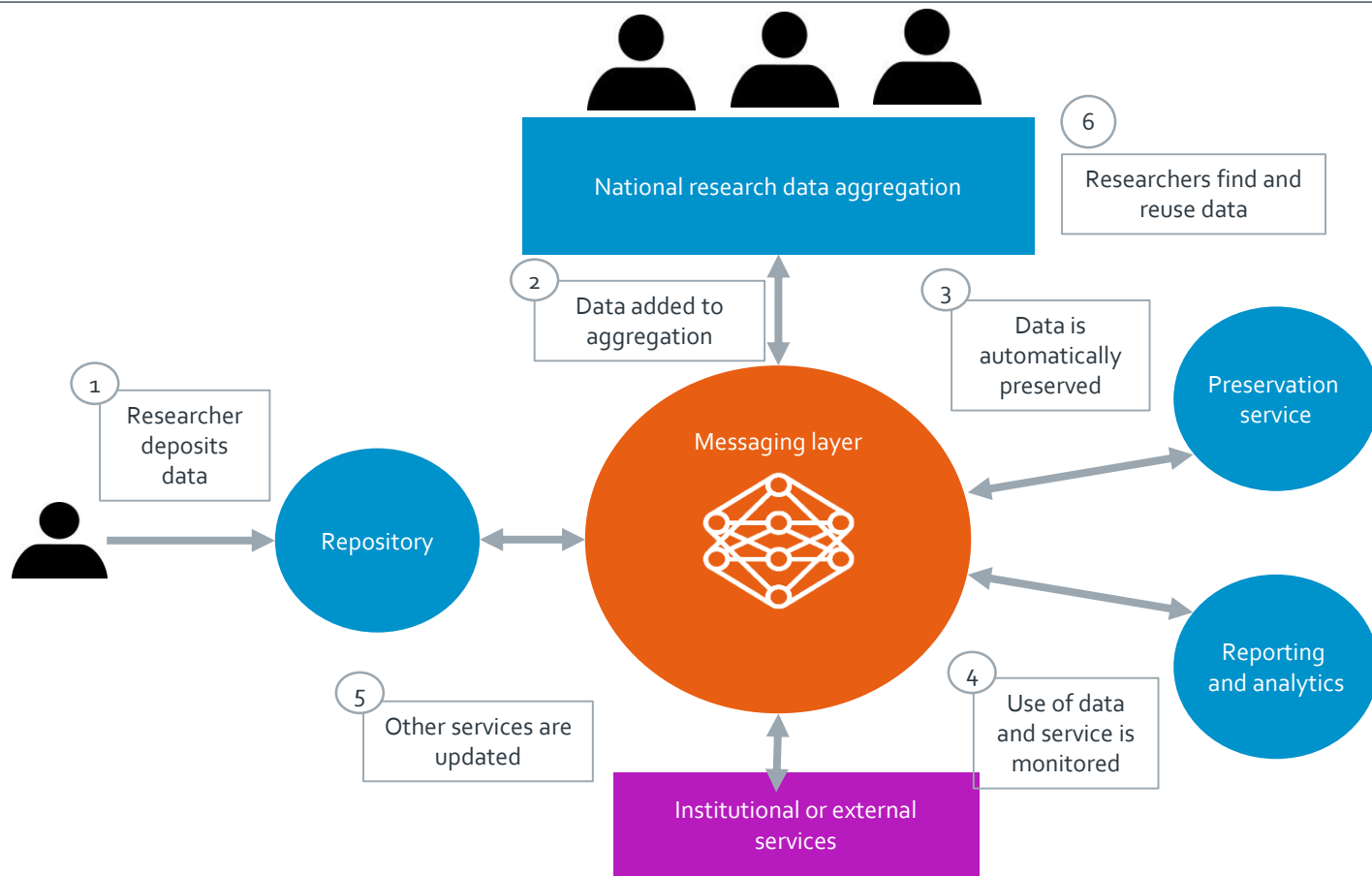
University
of GlasgowUNIVERSITY OF
WESTMINSTER

» Information, Advice, Guidance and Community Support

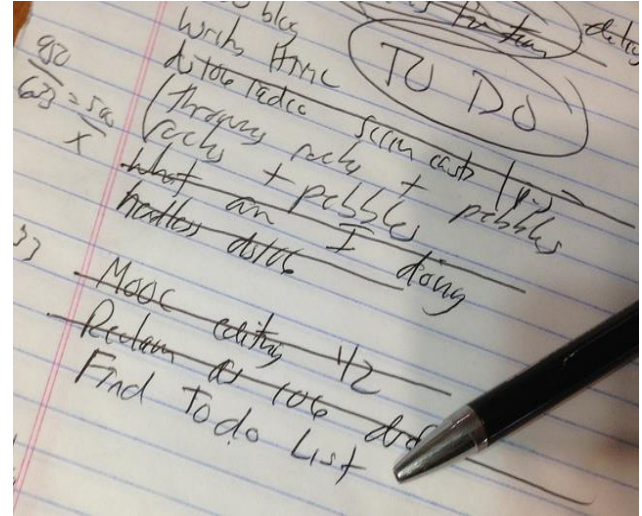


Digital Preservation Coalition

Software
Sustainability
Institute



- » First priority is research data
- » However research data is not good enough on it's own for research publication the ideal is to store, or link to the complete research package
 - » Research output (Article/Thesis etc.)
 - » Research data
 - » Research software/code
 - » Provenance metadata (method)
- » Without this research is often not re-usable or repeatable.
- » But.....we are aware that we are providing preservation systems that are tailored to deal with all kinds of digital objects and data.
 - » We are exploring use cases and pilots for objects beyond research data.



<https://creativecommons.org/licenses/by/2.0/>

<https://www.flickr.com/photos/cogdog/>

Can we identify our research data?

We ran Droid* over the research data deposited with us over the past year.

Out of 3752 individual files:

- only 37% (1382) of the files were identified (with varying degrees of accuracy)
- there were 34 different identified file formats in the sample



* Droid is a free tool from The National Archives that can be used to automatically identify file formats

Identified research data files

Files identified by Droid (listed by file type)

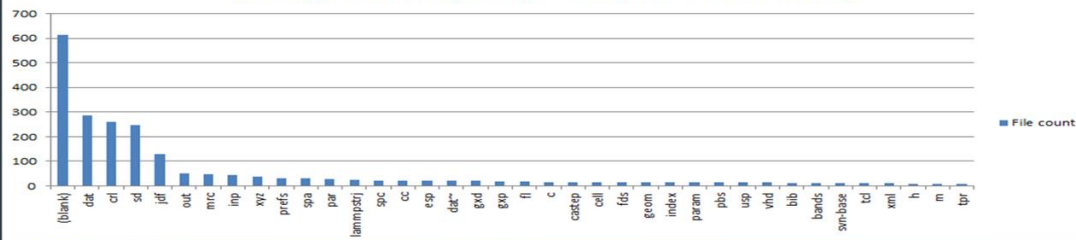
...note that native files of the software in the previous graph of research data applications are not represented



Unidentified research data files

- Files not identified by Droid (listed by file ext)
- 107 different file extensions not identified
 - huge number with no extension (help!)
 - how do we solve the .dat file problem?

Count of file extensions of unidentified files
(includes extensions represented 10 or more times)



Implementing
Archivematica
for research
data
preservation at
York and Hull

Jenny Mitcham
(Digital
Archivist) -
University of
York

» Automated preservation workflow:

- › lack resources (staff, skills, budget, time) to do a comprehensive job of preserving all their research datasets and will instead
- › want a low-cost, fully automated, 'black box' approach to digital preservation of at least some of their data.
- › They want a 'preservation sausage machine' whereby research data is fed in at one end and out of the other comes 'preservation packages' containing the research data in a form that is better described and structured for long-term usability.

» Interactive preservation workflow:

- › Institution will want to work closely with both the Research Data and the Researcher as part of an iterative process of quality control and digital
- › This is a more interactive and resource intensive process than 'automated' preservation, but can yield better results and may be more appropriate for specific types of research or institution.
- » The most appropriate workflow to use will depend on many factors, e.g. the experience an institution has with digital preservation, the resources at its disposal, the research discipline or type of data involved, the requirements of the research funder, the institutions policy and so on.

- » First use case achieved: Migrate Royal College of Music's Open Access Repository into a Jisc repository.
- » RIOXX profile is already in place
- » Jisc roadmap includes OA integrations to be incorporated until early 2019 including
 - › Jisc services
 - › External services
 - › Additional Reporting



ROYAL COLLEGE OF MUSIC
London

- » Jisc services
 - › Jisc Publications Router
 - › Sherpa Policy Services
 - › Jisc Monitor
 - › CORE
 - › IRUS UK
- » Integrations with external services
 - › CrossRef API's
 - › ORCiD Premium API
 - › Publisher services
- » Additional Reporting
 - › Compliance checking (e.g. Research Excellence Framework)



- » Research4Justice academic institutions using RDSS infrastructure to build a discipline specific repository of undergraduate and postgraduate theses
- » Initially centred on forensic science, but is for any content that could be useful within criminal justice
- » Wide range of depositors (multi-institutional)
- » Different audience: Home Office, Police, Legal, practitioners



<https://creativecommons.org/licenses/by-nd/2.0>

www.flickr.com/photos/wolfgangfoto

- » RDSS suppliers Arkivum and Artefactual systems have been examining best practice for software preservation and we will produce a report in April.
- » Software Sustainability Institute are working with RDSS to provide community building and information, advice and guidance.
 - › 1st workshop held in March 2018, 2 more to come before July 2018
 - › Briefing papers and reports pre-July 2018

- » RDSS working with Universities of Glasgow and Westminster:
 - › Preservation use cases for records management
 - University archives
 - University Websites
 - Special collections
 - Other records
 - › Recommendations around workflows, systems and future integrations
 - › Engage with the community through workshops



<https://creativecommons.org/licenses/by/2.0/>

<https://www.flickr.com/photos/cogdog/>

- » Glasgow are using RDSS infrastructure:
 - › Preservica and Archivematica with Jisc storage
- » Westminster are using the Arkivum Perpetua service
 - › Archivematica and Arkivum storage
- » Both organisations are due to report findings back by July 2018



**UNIVERSITY OF
WESTMINSTER**

- » RDSS pilots are also using RDSS infrastructure to examine their non-RDM use cases:
 - › Cambridge – Polonsky fellowships
 - › St Andrews – University records and archives
 - › Lancaster – Special collections
 - › Middlesex – Design Museum
- » Other pilots have expressed desire to work with content outside research data.
- » We have an MOU with The National Archives and will be engaging with their Higher Education Archives Programme (HEAP) to involve more archivists in RDM

End-to-end
service



Repository
service



Preservation
service

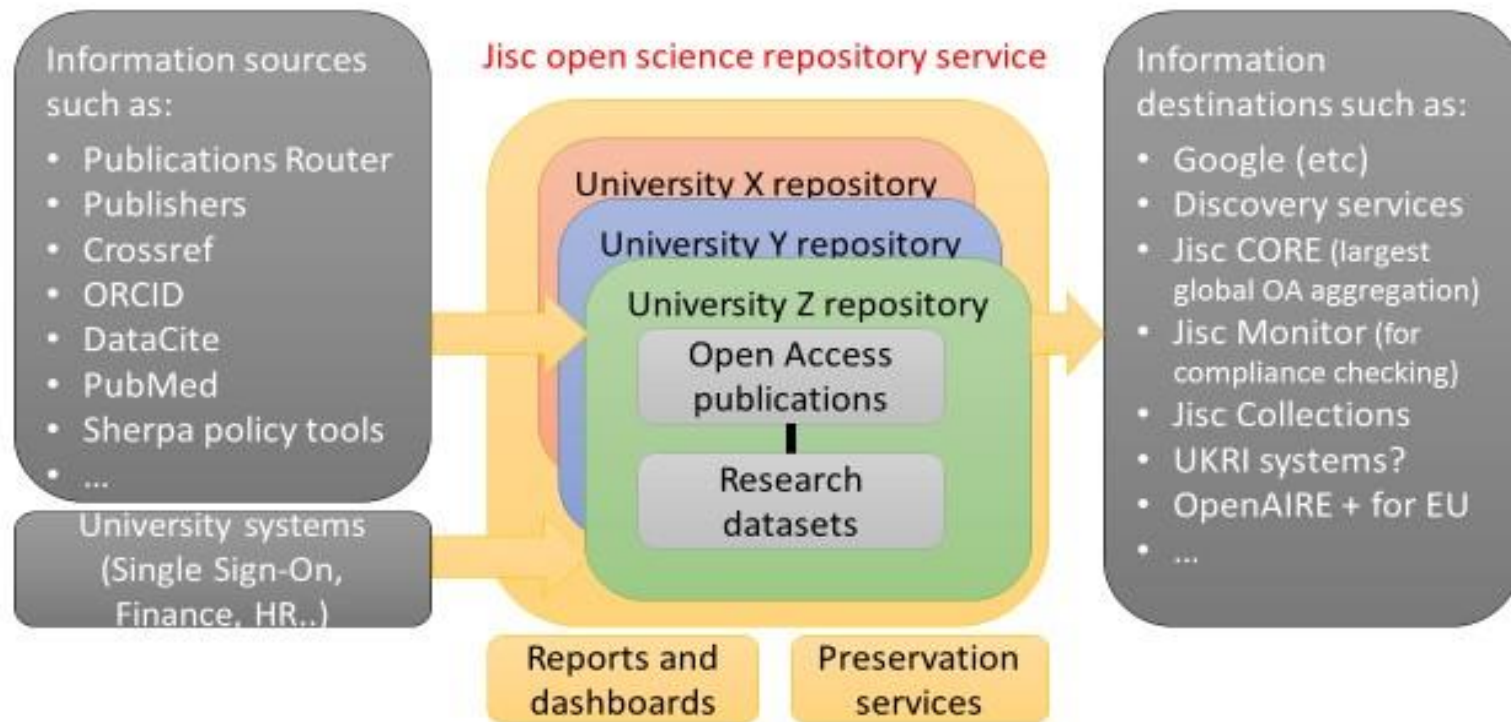


To be launched September 2018.

All 3 options include:

- ✓ Financial benefits
- ✓ Standards
- ✓ Advisory
- ✓ Network membership

- » Please talk to us if you think we can help meet your use case:
 - › Different content types
 - › Different types of organisation
- » If you are interested in a hosted preservation or repository service, then please contact us:
 - › tamsin.burland@jisc.ac.uk
 - › john.kaye@jisc.ac.uk



Rachel Bruce

Director Open Science and Research Lifecycle

Rachel.bruce@jisc.ac.uk

John Kaye

Head of Change Research

John.kaye@jisc.ac.uk



Except where otherwise noted, this work is licensed under CC-BY-NC-ND