Jisc RDM Shared Service
Scope Functionality and Requirements
» RDM Architecture
» Pilot Solution Scope
» Vision
» Components and functionality
» Shared Service Requirements
Pilot Shared Service

Jisc

Pilot Shared Service Area

Other R@R Work Areas

Existing Jisc Services/Agreement Areas

Institutional Internal Systems

Data Management Planning

DMP Creation Tool UI

DMP Registry

Projects Database

Researcher Database

Research Outputs Database

Current Research Information System

National and International Systems

National and International Aggregation and Identifier Services

Data Registry Catalogue

UK Research Data Discovery Service, DataCite, ORCID, OpenAIRE

Data Researcher Discovery UI

Data Publication UI

National, International and Disciplinary Data Centre

Research Data Storage

Metadata Store/Database

Active Data Registry

Active Data Storage

Data Deposit and Management UI

Active Data Management System

Data Ingest UI

Institutional Data Repository

Institutional Data Catalogue/Registry

Archive Data Storage (For Access)

Archive Data Storage (For Preservation)

Data Publication UI

Key

Data Flow

Metadata Flow

UV Researcher Interface

Research Data Storage

Metadata Store/Database

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Pilot Shared Service Vision

» Researchers shouldn’t need to think (too much!) about Research Data Management

• Provide researchers intuitive, easy functionality to publish, archive and preserve their research outputs.

• Provide interoperable systems to allow researchers and institutions to fulfil and go beyond policy requirements and adhere to best practice throughout the RDM lifecycle
**What we need**

<table>
<thead>
<tr>
<th>Front End/ User Interface</th>
<th>Middle Layer</th>
<th>Storage Layer</th>
<th>Preservation Layer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ingest UI</td>
<td>Data Registry/ Catalogue/ Repository</td>
<td>Access Data Storage</td>
<td>Preservation/ Curation Metadata</td>
</tr>
<tr>
<td>Data discovery UI</td>
<td>API's CRIS, DataCite, ORCID, LOD, funders Etc.</td>
<td>Access Data Storage</td>
<td>File Format Identification tools</td>
</tr>
<tr>
<td>Data Publication UI</td>
<td>Landing page with DOI, Discovery Metadata, and metrics</td>
<td>Archive Data Storage</td>
<td>File/ media migration / transformation tools</td>
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<td>Emulation tools</td>
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<td></td>
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<td>Other Preservation/ Curation tools</td>
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</tbody>
</table>
Links to R@R Portfolio

Research at risk inputs into RDM shared services pilot

Shares services
- UK research data discovery service
- UK ORCID consortium
- Usage statistics for research data
- Journal research data policy registry
- DMP online

Policy practice and standards
- Funder policy guidance (EPSRC etc.)
- RDM business case and costing
- Research data metadata
- Research data spring prototypes
» Draft Requirements Document informed by intelligence gathering and current and past projects.

» Inform Operational Requirements Tender Document released for information Nov 2015 and anticipating responses in Feb 2015

» Requirements to be refined by:
  - HEI and Supplier Consultation Workshops (Nov 2015)
  - Pilot HEI’s (From Jan 2016)
  - Expert Advisory Group (From December 2015)

» Requirements have been published on Jisc RDM blog:
Top Level Requirements

» Enable researchers and institutions to meet funder requirements and expectations, such as the EPSRC research data policy.

» Enable institutions to efficiently provide funders with reporting information e.g. for Research Excellence Framework and EC’s OpenAIRE.

» Meet and comply with relevant information security, legal and ethical standards.

» Provide researchers with user-friendly methods to deposit, publish, share, discover, access and cite research data objects.

» Store, archive, preserve and provide access to a range of research data objects from multiple disciplines and with differing file formats, sizes and volumes.

» Work towards interoperability and exchange of metadata with institutional systems, (CRIS, publication repositories etc.) and external systems and services (national data centres, scholarly communications services, UK Research Data Discovery Service, ResearchFish, ORCID).

» Use existing identity management, authorisation and access protocols and allow for different access policies for different types of data.
» Ingest/Deposit
» Publication
» Registry and Discovery
» Data and Metadata Exchange and Integration
» Access
» Storage (Access and Archival)
» Archival Management
» Data Preservation
» Reporting
We want feedback! (workshop and generally) – Questions Sheets
Have we missed anything?
What requirements are crucial to you?
What will make up our minimum viable product (MVP)?
What requirements have you collected at your institution?
Have you had any issues with suppliers around certain requirements?
Willingness to share requirements with the community?
Can upload requirements and other useful documents here: https://padlet.com/john_kaye/RDSharedServices
Acknowledgements and thanks

- Architecture: John Lewis (Sheffield), Stuart Lewis (Edinburgh)
- Requirements documentation:
  - Leeds Research Data Management Pilot Roadmap
  - ADMIRe Project
  - Kaptur
  - SWORD
  - RDS - Filling the Data Preservation Gap
  - RDS - A consortial approach to integrated RDMS
  - RDS - DataVault
  - Jisc Learner Analytics Operational Requirements
  - MMU Draft Requirements
- Reviewers (so far): Jenny Mitcham (York), Chris Awre (Hull), Masud Khokhar (Lancaster), Paul Wheatley (DPC), William Killbride (DPC)
We want your feedback...

Thank you!

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