

The Jisc Open Research Hub

and its role in open research infrastructure

23 July, 2019



Who are Jisc?

Jisc is the UK **higher**, **further education** and **skills** sectors' **not-for-profit** organisation for **digital services** and **solutions**

Provide trusted advice and practical assistance for universities, colleges and learning providers

Jisc We...

Negotiate **sector-wide deals** and conditions with IT vendors and commercial publishers

Operate shared digital infrastructure and services



A key challenge for universities

The current 'open research' agenda is important to universities:











Repository

Preservatiion

Reporting



Research data lifecycle & Open research hub scope





A shared service

A single solution to meet the **requirements** for universities to enable better management, sharing and preservation of research outputs





Co-Design























Imperial College London



















Haplo

fig**share**

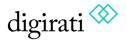


samvera















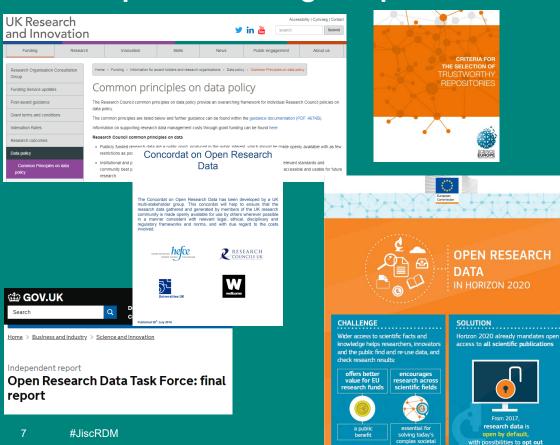






Software Sustainability Institute

Sector policies and good practice - data



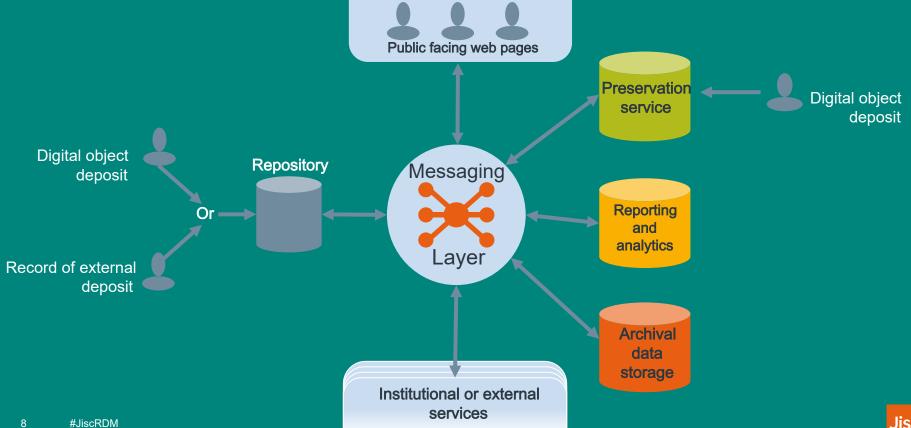
challenges





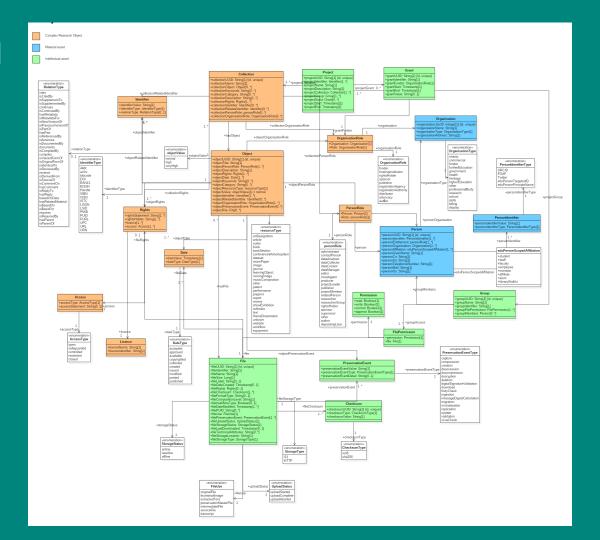


Service workflow summary



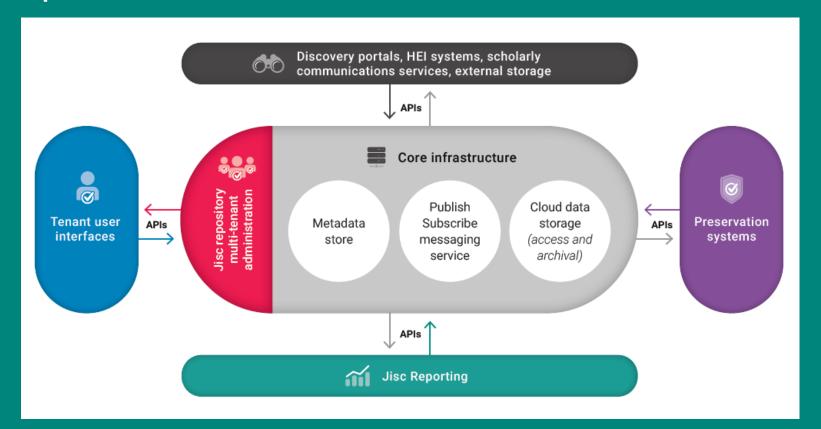
Service Data Model

https://github.com/JiscRDSS/rdss-canonical-data-model



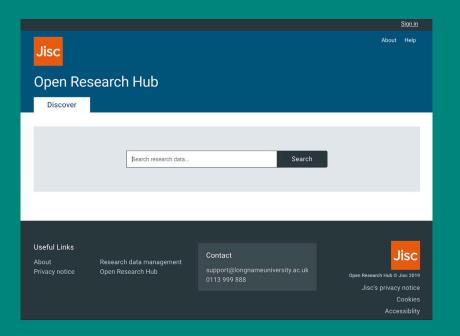


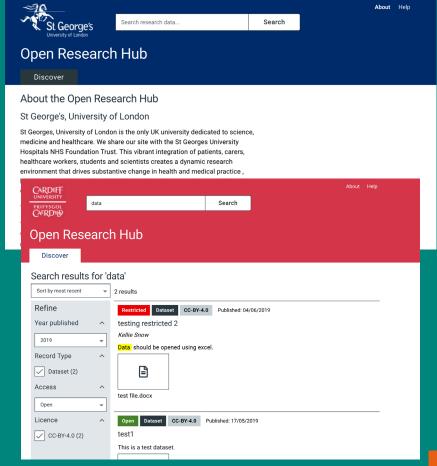
Jisc Open Research Hub



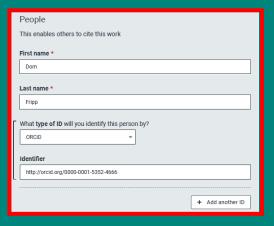


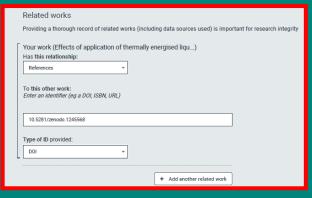
Jisc Open Research Repository





FAIR data





Access				
Access controls who can use your dataset. Under certain conditions (e.g. if your deposit contains sensitive dat and download your files. The level of access will depend on the ser				
What type of access will you give this dataset? *				
Open ▼	If you are			
Орен	access re			
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Please provide at least one type of descript Description 1: Description This study relates to the traditional practice of b the perceived refreshment provided.	0 Delete	If you are including information about how to open your dataset, please include this as a Technical information description
Description 2: Methods Leaves from the plant Camellia sinensis were cobserved the effects of applying dihydrogen mo 240v electrical appliance. The research also explores the application of both	noxied which had been energised using a	
Description 3: Technical Information graphs 1 through to 11, with subdirectories apprunderpinning data, deskewed data and final vers and the original modelling output files. These we opened by any version of that software. Open file each graph. fits files are the experimental data, csv and John Note that for graphs 2, 3, there are two x-axis - the analysis, the second is the x-axis plotted, once of H2(4-9) temperature emissions.	sions of the graphs for experimental work ere produced using Matlab v.4.2 and can be e format copies of the data are included for example of the copies of the data are included for example of the copies of th	
Are you able to provide any other descriptive text could be technical information, methodology or something else. Keywords Chemistry x Tea x Kettlé x Lovely cuppa x	+ Add district description	A wide-ranging set of relevant keywords can improve discoverability

https://www.gofair.org/fair-principles/



Continual development and delivery



https://blog.crisp.se/2016/01/25/henrikkniberg/making-sense-of-mvp

Going off-road

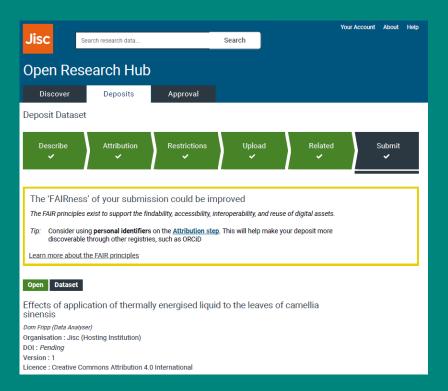


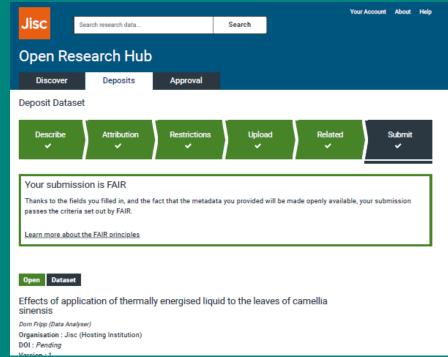
How the Jisc Open Research Hub team uses iteration and minimum viable features to keep the service agile in a rapidly changing environment What's more annoying than setting off on a journey and getting lost? Setting off on a journey with a map and still getting lost... When there are many possible ways to get ... Read more

https://researchdata.jiscinvolve.org/wp/2 019/05/22/going-off-road/



A FAIR submission?



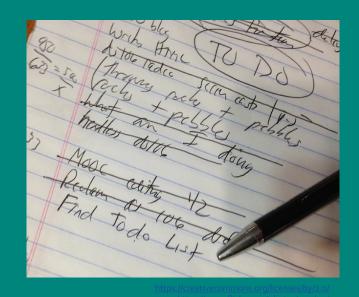




Development priorities

Research outputs

- Data repository enhancements
- OA Articles functionality
- Theses
- Software and code
- Provenance metadata (method)



Also ...

- Preservation systems tailored for multiple digital objects types
- Use cases and pilots for objects beyond research outputs



Sector mandates and good practice - OA



2. Requirements for Open Access Repositories

2.1 Requirements for Open Access repositories:

The repository must be registered in the Directory of Open Access Repositories (OpenDOAR) or in the process of being registered.

In addition, the following criteria for repositories apply:

Mandatory criteria for repositories:

- Use of PIDs for the deposited versions of the publications (with versioning, for example in case of revisions), such as DOI (preferable), URN, or Handle.
- High quality article level metadata in standard interoperable non-proprietary format, under a CCO public domain dedication. This must include information on the DOI (or other PIDs) both of the original publication and the deposited version, on the version deposited (AAM/VoR), and on the Open Access status and the license of the deposited version. Metadata must include complete and reliable information on funding provided by cOAlition S funders (including as a minimum the name of the funder and the grant number/identifier).
- Machine readable information on the Open Access status and the license embedded in the article, in standard non-proprietary format.
- Continuous availability (uptime at least 99.7%, not taking into account scheduled downtime for maintenance or upgrades).



Next Generation RepositoriesBehaviours and Technical Recommendations of the COAR

Behaviours and Technical Recommendations of the LOAF Next Generation Repositories Working Group

November 28, 2017



#nextgenrenositories

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Independent report

Open access to research: independent advice - 2018

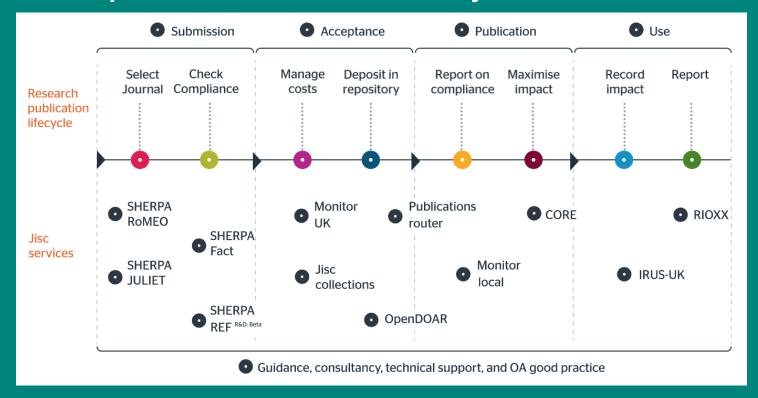
Independent advice from Professor Adam Tickell on open access to research publications.



OA repository reqs (Plan-S; COAR NGR; UK guidance)

✓ Diversity of resources	✓ Open APIs	✓ Machine friendly
✓ Resource centric	✓ Networked	✓ Versioning
✓ Sustainable	✓ Distributed governance	✓ Public good
✓ Helpdesk	✓ Continuous availability	✓ Accessible
 ✓ Full text stored in XML in JATS standard (or equivalent) 	 ✓ Common behaviours, functionalities and standards 	 ✓ Automatic exchange between publishers and institutions
 ✓ Quality assured metadata in standard interoperable format 	✓ Automated manuscript ingest facility	 ✓ Promoting a range of unique identifiers (eg ORCID)

Will become part of the Jisc OA Family





Jisc's role in digital preservation

- ◆A solution tailored for HEI sector
- ◆Community led and governed
- ◆Active to digital preservation community
 - Brings the sector together
 - Funds events and exploratory work





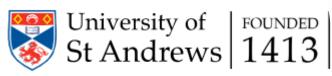




ORH preservation

Glasgow's digital preservation journey 2017-2019 | Alison Spence, et al.





Ex Libris Primo

RDSS

Messaging

RDSS

RDSS

Reporting API

FOUNDED

Case study: the University of Glasgow's digital preservation Journey 2017-2019

UNIVERSITY OF

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lisc

se study documents the University of Glasgow's digital preservation journey during 2017 and The University recognized that action was required to ensure the long-term preservation of key ate records and archival material. Staff from the University's Digital Preservation Working Group therefore tasked with identifying the University's priorities and requirements for preserving its key records, with the aim of producing recommendations for a preservation programme. Knowledge and skills were enhanced by participating in a national digital preservation pilot project and learning from

practitioners through works the questions which emerg be to engage the support of that successful digital predoes on technology. Two to examine digital presen digital preservation into collaboration within the



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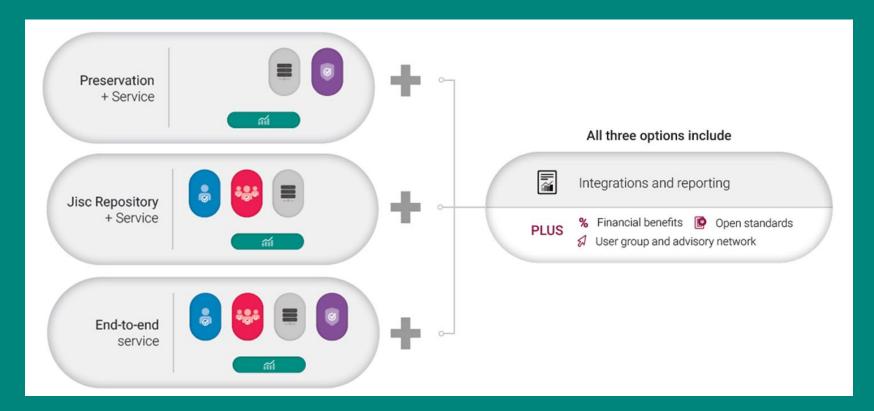
Filling the Digital **Preservation Gap**

Report on Archivematica for research data now available.

Jisc

In March 2015 the Universities of York and Hull & began work on a project to explore the potential of the digital preservation solution Archivematica & to help manage research data that academics within their institutions produce. This project was carried out with funding from Jisc & as part of their Research Data Spring & program and included collaborative work with Artefactual Systems &, The National Archives & and the wider digital preservation community. The project ran in three phases and the final phase completed in September 2016

3 standard service options



Information Security Management

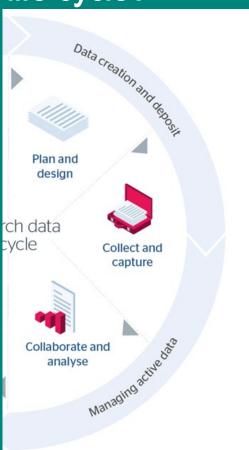






ORH and the active research life cycle?

- ✓ DMPs
- ✓ Open science platforms
- ✓ E-lab notebooks
- ✓ Active data storage
- ✓ Practice research
- ✓ Reproducibility





Jisc Research Data Management Toolkit rdmtoolkit.jisc.ac.uk

