Research Data Management

PHILOMENA HUMPHRIES – FACULTY LIAISON COORDINATOR, REID ARTS AND BUSINESS LIBRARY & EDUCATION, FINE ARTS AND ARCHITECTURE LIBRARY

KATINA TOUFEXIS – RESEARCH DATA COORDINATOR
Research Data Management Services

www.is.uwa.edu.au/research/services

Plan, Store and Share your research data with UWA Research Data Management Services.

Create your Data Management Plan
The UWA Data Management Plan can help you document your research data to meet funding and publisher obligations. You can download the submission form or complete it online.

Store your research data
UWA Institutional Research Data Store is a centralised, secure and UWA-supported data storage facility.

Make your research data accessible and discoverable
Research Data Online is UWA’s research data repository. It provides access to research datasets held at UWA and helps you comply with funding and publisher obligations.
Research Data Management Services

Plan, Store and Share your research data with UWA Research Data Management Services.

- **Create your Data Management Plan**
  The UWA Data Management Plan can help you document your research data to meet funding and publisher obligations. You can download the submission form or complete it online.

- **Store your research data**
  UWA Institutional Research Data Store is a centralised, secure and UWA-supported data storage facility.

- **Make your research data accessible and discoverable**
  Research Data Online is UWA's research data repository. It provides access to research datasets held at UWA and helps you comply with funding and publisher obligations.
Plan, Store and Share your research data with UWA Research Data Management Services.

Create your Data Management Plan
The UWA Data Management Plan can help you document your research data to meet funding and publisher obligations. You can download the submission form or complete it online.

Store your research data
UWA Institutional Research Data Store is a centralised, secure and UWA-supported data storage facility.

Make your research data accessible and discoverable
Research Data Online is UWA’s research data repository. It provides access to research datasets held at UWA and helps you comply with funding and publisher obligations.
Research Data Management Toolkit

www.is.uwa.edu.au/research/research-data-management-toolkit
Research Data Management Toolkit

Effective research data management ensures the responsible conduct of research. Best practices in research data management enhance research integrity and promote collaborative opportunities.

A Research Data Management Plan ensures data security, accessibility and validation of results. For further assistance with research data management, please refer to the Research Data Management Toolkit.

- **Intellectual Property**
  - Ownership of research data must be clarified at the commencement of any project. The ownership and management of intellectual property at UWA is governed by the Intellectual Property Policy.

- **Documentation and Metadata**
  - Sufficient documentation must be created and maintained by researchers to ensure that research data is discoverable, usable and managed throughout its life-cycle.

- **Storage and Backup**
  - Researchers must ensure adequate storage and backup of their research data, irrespective of the formats, for the life of the statutory period of retention.

- **Sharing and Release**
  - Research data sharing is encouraged by the Australian Government, government funding agencies, academic journal publishers and the Australian Research Collaboration Service.

- **Retention and Disposal**
  - Researchers must consider the enduring value of their research when making the decision to retain or dispose of data. Key retention periods should be identified early in the data management plan.

- **Resources and Support**
  - This provides further research data management assistance and valuable resources such as contacts, documents, policies, guidelines and news.

www.is.uwa.edu.au/research/research-data-management-toolkit
Research Data Management Services

www.is.uwa.edu.au/research/services
Research Data Management Planning

- UWA Data Management Plan
  - Online Form: www.is.uwa.edu.au/research
  - Download a copy from the Research Data Management Toolkit:
Research Data Management Planning

- Intellectual Property
- Documentation & Metadata
- Storage & Backup
- Sharing & Reuse
- Retention & Disposal
Research Data Management – Funder requirements

- **ARC** Discovery Projects Instructions to Applicants for funding in 2015 requires a statement outlining:

**MANAGEMENT OF DATA**

Outline plans for the management of data produced as a result of the proposed research, including but not limited to storage, access and re-use arrangements.
Are you planning to apply for funding under the ARC’s Discovery Projects?

As part of your Project Description, you will need to “outline plans for the management of data produced as a result of the proposed research, including but not limited to storage, access and re-use arrangements.”

The ARC emphasizes the following:

- They are only expecting a paragraph about data management (unless it is particularly important or critical to your project, when you might need to go into more detail).

- They are not looking for boilerplate generic statements. You should provide information specific to your project, in the context of services provided at UWA (or elsewhere) and in relation to the data management practices expected in your research field or discipline.

- The assessors will be looking at this information as part of their overall assessment, but there is no specific weighting attached to it.

- You should see it as an opportunity to show how effective data management will improve the outcomes of your project and enhance its competitiveness.

- Data management is particularly relevant to the “Research Environment” section and to the “Feasibility and Benefits” section of the Project Description.

- Data management costs can be included in the project’s budget, but would need to be well-justified – why are these costs necessary for this specific project.

- The ARC’s strong preference is for research data to be disseminated and made available for reuse by other researchers. They recognize that this may not be possible for some projects— but, if this is the case, you will need to provide a brief explanation and justification (e.g., the data are confidential or are owned by someone else).
The University Library and IT has two data management systems relevant to ARC applications:

- **Research Data Online** (Stage 1 now available): This service enables datasets to be published, either for direct public access or for mediated access through an email request to the dataset’s custodian.

- **Institutional Research Data Store** (university-wide availability): This service enables datasets to be stored securely and confidentially and made available only to specific UWA researchers nominated by the dataset’s custodian.
Research Data Management Services

www.is.uwa.edu.au/research/services
Institutional Research Data Store (IRDS)

Research Data Online (RDO)

Research Data Australia
Data Storage:

The Institutional Research Data Store (IRDS)

- No cost to researcher
- Many file types supported
- Available 24/7 on-campus via wired computer terminals
- Secure and backed up
- Automatic access to 25GB space
- Is scalable to accommodate future research needs
UWA Institutional Research Data Store (IRDS) provides researchers with a centralised, secure and UWA supported data storage facility in which to store electronic research data, enabling ongoing access to these valuable assets at no cost to researchers and in a broad range of file types.

The IRDS is supported by a dedicated 10Gb fibre optic connection that ensures reliable performance.

Proposed future releases include collaboration with national and international researchers via authentication methods, such as the Australian Access Federation (AAF).

NOTE: When you select a form below, you may be asked to login using your Phone credentials before you can proceed.

**New Data Store Request**
Request a new IRDS data storage Store allocation.

**Additional Data Storage Request**
Request additional storage space for an existing IRDS Store allocation. You must be the current Owner to submit this request.

**Change Ownership of Data Store**
Request changes to the ownership of an IRDS Store allocation. You must be the current Owner to submit this request.

**Access Permissions Changes**
Request changes to access permissions for an IRDS Store allocation. You must be the current Owner to submit this request.

**Restore from Backup**
Request that files or folders stored in the IRDS be restored from backup. You must be the current Owner or have read/write access to submit this request.

http://www.is.uwa.edu.au/research/irds
## UWA Storage

<table>
<thead>
<tr>
<th>Students</th>
<th>Staff</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Unidrive</strong></td>
<td><strong>Collaboration Tools</strong></td>
</tr>
<tr>
<td>T: drive</td>
<td>Email</td>
</tr>
<tr>
<td>H: drive</td>
<td>Calendaring</td>
</tr>
<tr>
<td>2GB</td>
<td>Email Drive 30GB</td>
</tr>
<tr>
<td>Student Sites</td>
<td></td>
</tr>
<tr>
<td>Feature</td>
<td>IRDS (UWA)</td>
</tr>
<tr>
<td>----------------------------------------</td>
<td>------------</td>
</tr>
<tr>
<td>No Cost to the researcher</td>
<td>✔</td>
</tr>
<tr>
<td>Secured by UWA Network</td>
<td>✔</td>
</tr>
<tr>
<td>Auto backup</td>
<td>✔</td>
</tr>
<tr>
<td>UWA Owned</td>
<td>✔</td>
</tr>
<tr>
<td>Data located in Australia</td>
<td>✔</td>
</tr>
<tr>
<td>Very Large File Size</td>
<td>✔</td>
</tr>
<tr>
<td>AAF Authenticated Collaboration</td>
<td>✔</td>
</tr>
</tbody>
</table>

1. Initially, there is no cost to the researcher up to a certain quota of storage. After this quota is reached, monthly payments are required.
The iVEC & UWA’s IRDS Continuum
IRDS timeline

2014 - currently

**Soft launch Complete** – researchers identified via Faculty IT Managers.

**University-wide Launch**
Secure uploading room in the Reid Library.

2014 - future

Access for collaborators nationally and internationally and wireless access to store.
Permissions at file/folder level.
Research Data Management Services

www.is.uwa.edu.au/research/services

Plan, Store and Share your research data with UWA Research Data Management Services.

Create your Data Management Plan
The UWA Data Management Plan can help you document your research data to meet funding and publisher obligations. You can download the submission form or complete it online.

Store your research data
UWA Institutional Research Data Store is a centralised, secure and UWA-supported data storage facility.

Make your research data accessible and discoverable
Research Data Online is UWA’s research data repository. It provides access to research datasets held at UWA and helps you comply with funding and publisher obligations.
Data Sharing – Publisher requirements

• The new PLOS Data Sharing policy:

Authors are required to make all the data underlying the findings described in their manuscript fully available without restriction, with some limited exceptions. From March 2014, you will need to include a “data availability statement” when you submit your article, explaining where and how your data can be accessed.
SHARING DATA
UWA’s Research Data Online (RDO)

Research Data Online

Research Data Online provides access to research datasets held at the University of
Western Australia.

Research Data Online is managed by UWA Information Services. The information about
each dataset has been provided by the relevant research groups.

Information about the datasets in this service is automatically included in UWA’s
Research Hub and in Research Data Australia.

Funding to establish this service was provided by the Australian National Data Service
(ANDS). Other UWA research groups are encouraged to contribute information about
datasets to this service. Please contact the eResearch Support Unit.
Institutional Research Data Store (IRDS)

Research Data Online (RDO)

Research Data Australia

Google Australia
Ethics and Data Sharing

If you have **sensitive data** (de-identified or not)

You have **NO OBLIGATION** to share

But you must consider if...

1. You plan to submit to a publisher (such as PLOS) who has new data sharing policies
2. If your research is part of ARC Discovery Projects, then you will be able to **state reasons why you can’t share your data in the ARC application.**

### Table 3. Identifiability-Anonymization Continuum

<table>
<thead>
<tr>
<th></th>
<th>Sensitivity</th>
<th>Reversibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Completely Identifiable</td>
<td>Highly sensitive</td>
<td>Original data, so reversibility not needed</td>
</tr>
<tr>
<td>Code-linked</td>
<td>Very sensitive</td>
<td>Depends on the codes that mask identity created and how they are controlled</td>
</tr>
<tr>
<td>Quasi-identifiable</td>
<td>Somewhat sensitive</td>
<td>Encryption; low reversibility (depending on who holds the encryption key)</td>
</tr>
<tr>
<td>Completely Anonymized</td>
<td>Not sensitive</td>
<td>Completely unidentifiable and irreversible</td>
</tr>
</tbody>
</table>

Degrees of De-identification of Clinical Research Data (Nov 2011, Jeanne M. Mattern)

Information Services: Questions?

Philomena Humphries – Faculty Liaison Coordinator, Reid Arts and Business Library & Education, Fine Arts and Architecture Library
philomena.humphries@uwa.edu.au

Katina Toufexis
Research Data Coordinator, eResearch Support
katina.toufexis@uwa.edu.au
Ph: 6488 5319

www.is.uwa.edu.au/research/services