

# Research Data Management Training

## Overview

## Research Data management Training Working Group: Approach and Methodology

### Guiding principles

- Researcher as the target audience. A review of the Seeding the Commons project activity revealed a need to focus engagement with researchers on their needs and to embed awareness raising around research data management into researcher's practice. Although not targeted toward support staff (such as research office, IT, library), content is suitable to support a train-the-trainer approach.
- Approaches to learning and development are not identical across ANDS and Intersect. As a joint initiative, project outcomes support a flexible approach to session delivery and audience.
- Work in partnership with the institution to customise a training session based on an understanding of needs, strategies and policies concerning data management.
- Communicate good practice in data management
- Outcomes address researcher responsibilities for research data management and planning
- Content developed at a practical level and with a pragmatic approach
- Provide Australian context to national policy and funder requirements (but not limited to)
- Content developed for face to face delivery and to facilitate discussion
- Course delivery should provide the opportunity for discussion and feedback
- Content lends itself to online delivery with additional scaffolding to support
- Content provides a foundation course which lends itself to flexible customisation for localised delivery
- Content development and content review completed independently
- Take away resources or tools are available to the session participant
- Course delivery should be engaging
- Duration of training course is approximately a two to three hour session.

### Content development

Key resources utilised to inform and/or to provide content include:

- U.K Data Archives Managing and Sharing Data, 2011.
- Resources of the Australian national Data Service (website)
- Australian Code for the Responsible Conduct of Research

- Various university research data management sites including Cambridge, University of Western Australia, Monash, and Griffith
- Practical Data Management: A Legal and Policy Guide (OAK Law Project, 2008)

Process:

- Identify research project lifecycle
- Identify research data management elements
- Map research data management elements across the project lifecycle to ensure coverage for content development

## Content Review

Reviews were held by way of pilot training sessions and requests for feedback from a reference group. The review sought to ensure materials were:

- Fit-for-purpose (see: Guiding principles)
- Appropriate for the proposed method of delivery
- Written so as to be inclusive with consistent language throughout

## Course Delivery

- Course resources are available to trainers (training materials, session outline, etc)
- Courses may be delivered face-to-face or online via videoconferencing.
- Some institutions may wish to take the content and manage delivery in-house. Others may seek collaboration with support agencies. The session may be delivered in a variety of ways, such as:
  - solely by university staff
  - solely by Intersect and/or ANDS staff
  - by a mix of institutional and external staff.
  - train the trainer sessions for relevant university staff
  - team-training (Intersect/ANDS trainer buddies with university staff member to provide support for co-delivery)

## Course Resources

The course resources are as follows:

1. Trainer slide set with speakers notes embedded
2. Session plan
3. Course outline
4. Evaluation form

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## Acknowledgments

In addition to the works explicitly cited within the slide template presentation, we would like to acknowledge the following works which were consulted during the compilation of this training package:

The conundrum of sharing research data. Christine L. Borgman, 5 April 2012, DOI: 10.1002/asi.22634

Uhlir, P.F., & Cohen, D. (2011). Internal document. Board on Research Data and Information, Policy and Global Affairs Division, National Academy of Sciences. 18 March 2011.

ANDS page on Funder requirements. <http://www.ands.org.au/datamanagement/funding.html>

Griffith University. *Best practice guidelines for researchers. Managing research data and primary materials.*

[http://www.griffith.edu.au/\\_data/assets/pdf\\_file/0009/528993/Best\\_Practice\\_Guidelines.pdf](http://www.griffith.edu.au/_data/assets/pdf_file/0009/528993/Best_Practice_Guidelines.pdf)

University of Cambridge *Support for managing research data.*

<http://www.lib.cam.ac.uk/dataman/pages/naming.html>

University of Western Australia *Research data management toolkit*, and Monash University *Research data guidelines*

<http://guides.is.uwa.edu.au/content.php?pid=319161&sid=2616225>

<http://monash.edu/library/researchdata/guidelines/ownership/#Use>

OAK Law Project *Practical data management: A legal and policy guide.*

<http://eprints.qut.edu.au/14923/>

ANDS page on Ethics, consent and data sharing.

<http://www.ands.org.au/guides/ethics-working-level.html>

Piwowar HA, Day RS, Fridsma DB (2007) [Sharing Detailed Research Data Is Associated with Increased Citation Rate](#). PLoS ONE 2(3): e308. doi:10.1371/journal.pone.0000308.

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