



THE AUSTRALIAN NATIONAL DATA SERVICE

Data Management Seminar
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Australian Code for the Responsible Conduct of Research

- Institutions are to retain research data, provide secure data storage, identify ownership, and ensure security and confidentiality of research data
- Researchers are to retain research data and primary materials, manage storage of research data and primary materials, maintain confidentiality of research data and primary materials

http://www.nhmrc.gov.au/publications/synopses/_files/r39.pdf

Key ANDS Messages

- A Research Data Commons matters
- ANDS is a beginning
- ANDS is a partnership
- Flow between ANDS and institutions will be two way
- ANDS funding will be used to benefit Australia

The ANDS Vision

- ANDS sets out to transform the disparate collections of research data around Australia into a cohesive corpus of research resources.
- The vision is that in ten years time Australian researchers will share and re-use data, more often and in greater quantities. They will collaborate across different disciplines, over long distances, regardless of location and time and disseminate their research outcomes with greater effect.

ANDS Structure

- There are four co-ordinated inter-related service delivery programs:
 - Frameworks
 - Utilities
 - Seeding the Commons
 - Capability Development
- Plus service development funded through NeAT projects in partnership with ARCS

Developing Frameworks (Monash)

- Influencing relevant national policies
- Building common understanding of data management issues and solutions across government, research funding agencies, and research intensive organizations
- Encouraging moves in favour of discipline-acceptable default sharing practices
- Largely centralised, with some specialised outsourcing

Providing Utilities (ANU)

- Building and delivering national technical services to support the data commons
- Examples:
 - Discovery
 - Persistent identifier minting and management
 - Collections registry to underpin discovery
- Outsourced delivery and insourced technical framework development
- Providing capability within ANDS for integration of existing systems into Australian Data Commons

Seeding the Commons (Monash)

- In targeted areas (because there is not enough resource to do everything), working to improve:
 - fabric for data management
 - amount of content
 - state of data capture and management
- Plus, opportunistic content recruitment in year 1
- Selection process to identify targets
- Placement of ANDS-funded staff, together with co-investment

Building Capabilities (ANU)

- Improving level of capability for research data management and research access to data
 - Train-the-trainer model
- Building community around data management concerns
- Largely distributed

Early Deliverables

- A national collections registry service
- A national persistent identifier service
- A national discovery service
- Exemplar discoverable data spaces
 - Candidates are Water, Crystallography, Law
- Early advice on data capture and management practise
- Partner with ITS and ARCS for local repositories and storage
- ***Not a national storage and management facility***

Implications for Repositories - I

- ANDS is dependent on research outputs stored in repositories
 - BUT, there will be little-r and big-R repositories
- Accessibility Framework is likely to move towards mandated deposit
 - of both publications and other forms of research output
- Lots of opportunities for groups to take part in various fora
 - Policy, Technical, Content

Implications for Repositories - II

- ANDS Discovery Services will be a superset of the ARROW Discovery Service
 - Data, Documents, People, Research projects, Institutions, Relationships, Collections of any of the above all likely to be first class objects, and exposed to Google
 - Planning to also provide a 'see also' service for embedding elsewhere
- Persistent Identifier Service (in collaboration with Digital Education Revolution)
- ANDS will build on the work and expertise of ARROW and APSR

Implications for IT Directors - I

- Increasing amount of collaboration around data
 - ANDS will be working closely with ARCS to align activities and provide a seamless experience to users
- It's about more than storing the bits
 - ANDS will be providing consulting services as well as best-practice guidelines
 - Probably also a good idea to start talking about data to your University Librarian and Records/Archives staff

Implications for IT Directors - II

- Increased amounts of data will need to be stored at institutions
 - ANDS will provide reference software stack, consulting support, and possible combined ANDS/ARCS helpdesk
 - ANDS won't fund/provide storage, but it will lobby the people who can...
- Increased access (both open and controlled) from outside institutions to stored data
 - ANDS will work with AAF on policies, and AAF-enabling repositories

Implications for Researchers

Responsibilities

- Manage data for life of project
- Meet standards for good practice
- Comply with funder/institutional data
- Work up data for use by others

Benefits

- Greater visibility of research
- Verifiable results
- Improved access to data
- Improved collaboration opportunities
- Preservation/Curation
- Citability of data
- Improved quality of data capture