

Developing sustainable research data management services: an institutional collaboration

Never Stand Still

UNSW Library

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Open Repositories 2014, Helsinki



Outline

- UNSW Library and research materials
- Research Data Management service
 - Use cases
- Relationships
 - Research practice and assets
 - Institutional
 - Governance and support
- Future work and conclusions





UNSW Library Repository Services

- Library role in management and curation of research materials
 - Fedora for underlying storage technology
 - Ex Libris Primo for search and discovery service
 - Java EE6-based content management interface
- Web-based repositories for research material
 - Faculty-based (disciplinary) collections
- ResData research data management service
 - Catalogue of datasets
 - Research data management plan





Research Data Publishing & Management

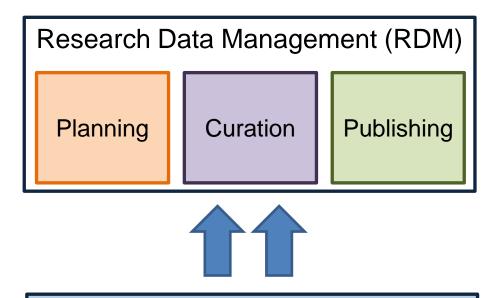
- Increasing importance of publishing research data as important resources
 - facilitates validation, reproducibility and attribution
 - requires efficient management
- Recommendation/requirements from funding bodies for research data management plans
 - the Australian Code for the Responsible Conduct of Research
 - Requires institutional policies, infrastructure and support services

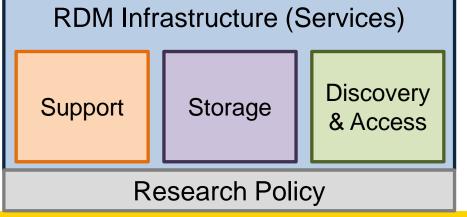




Research Data Management













UNSW RDM Services – an institutional collaboration

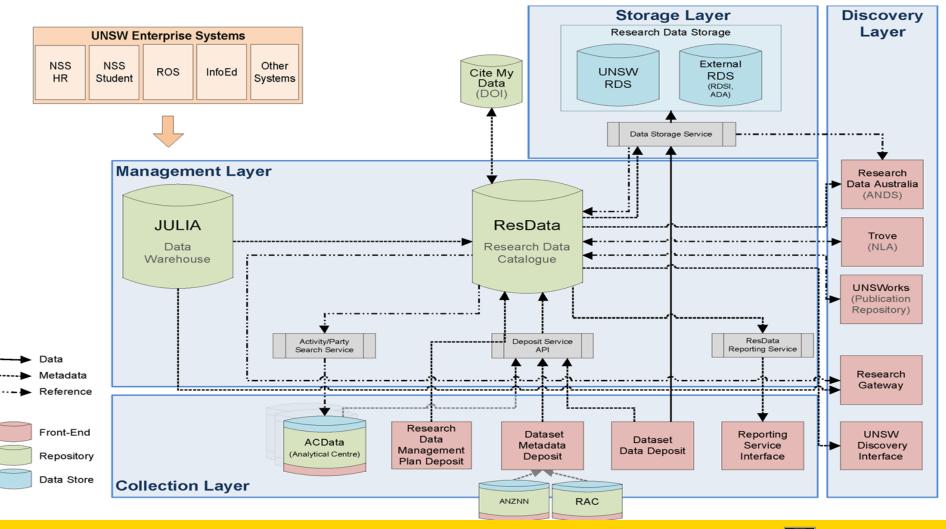


Library

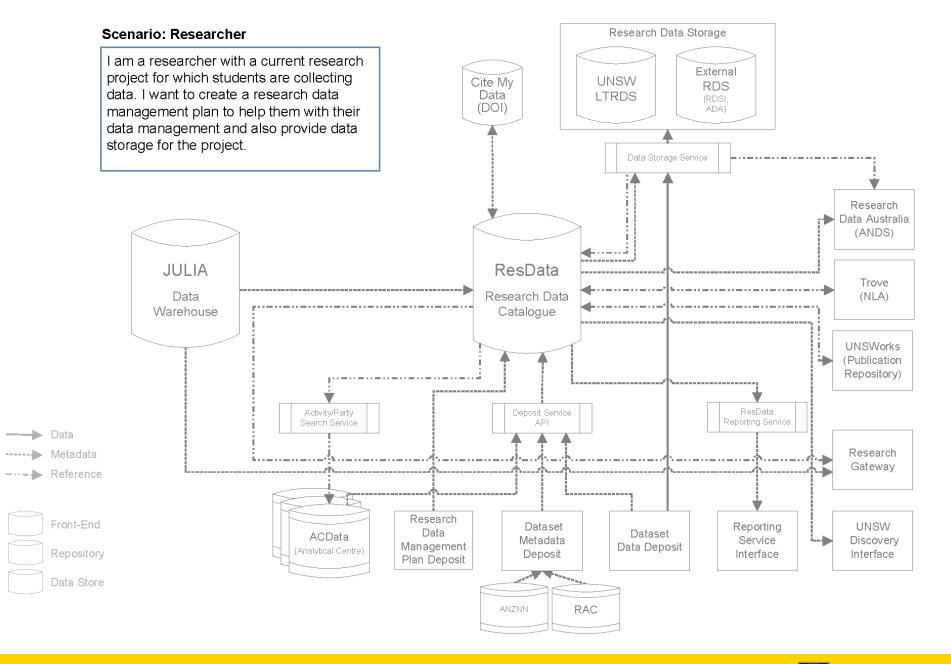


Research

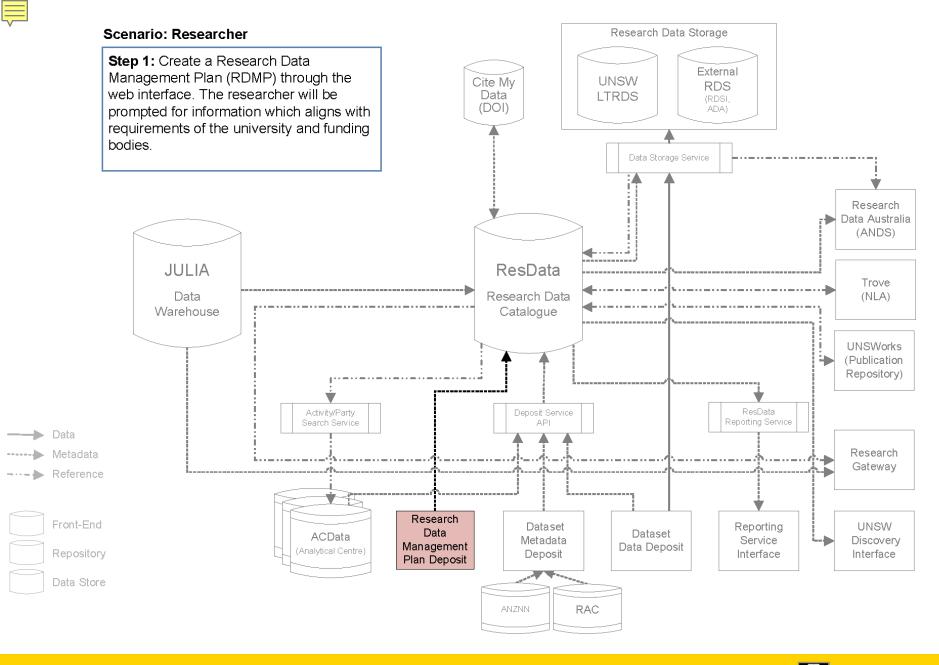
UNSW RDM Services Architecture



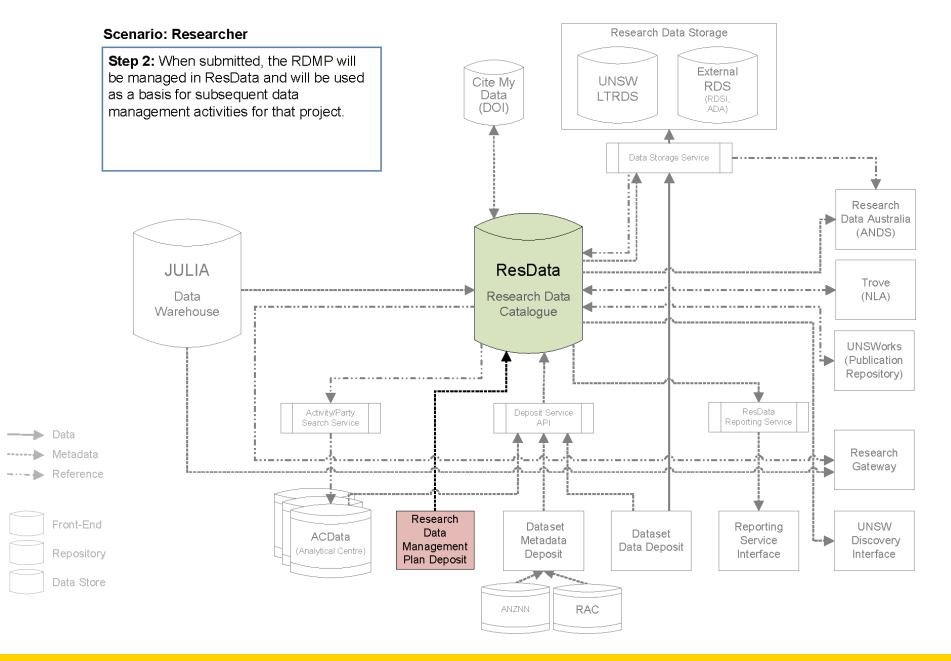




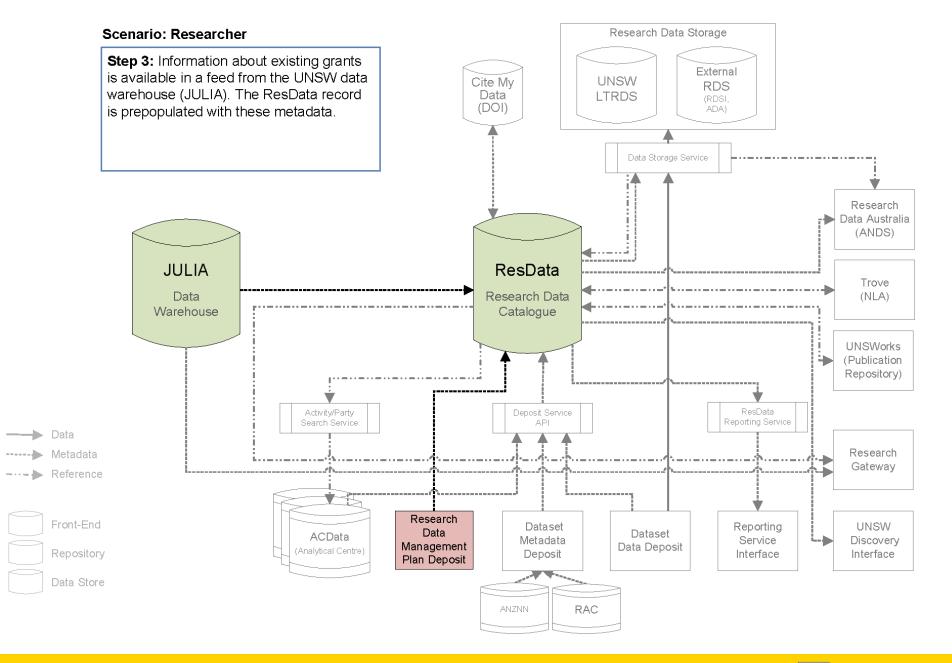




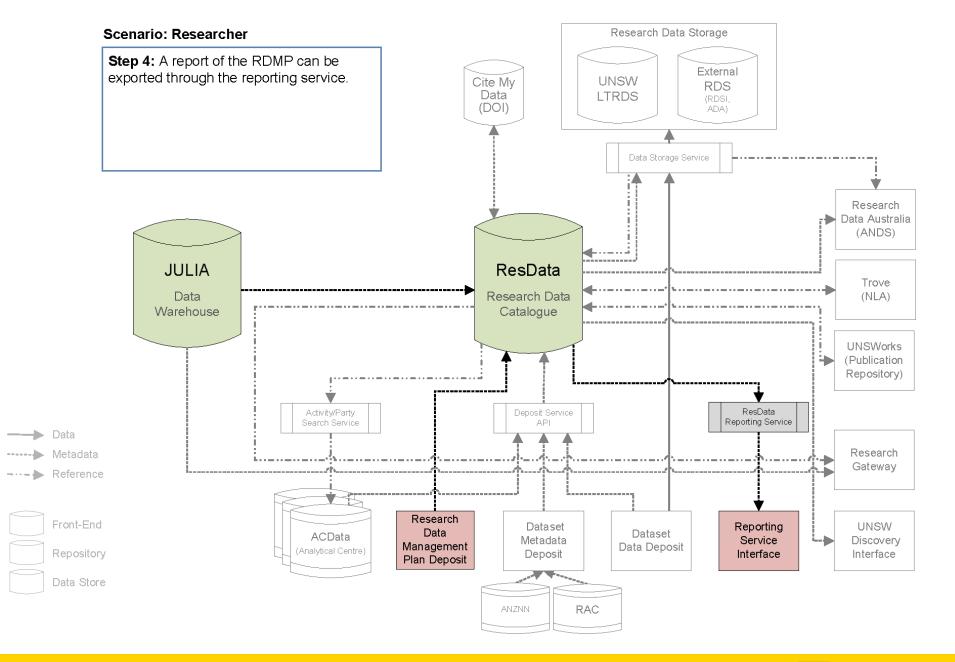




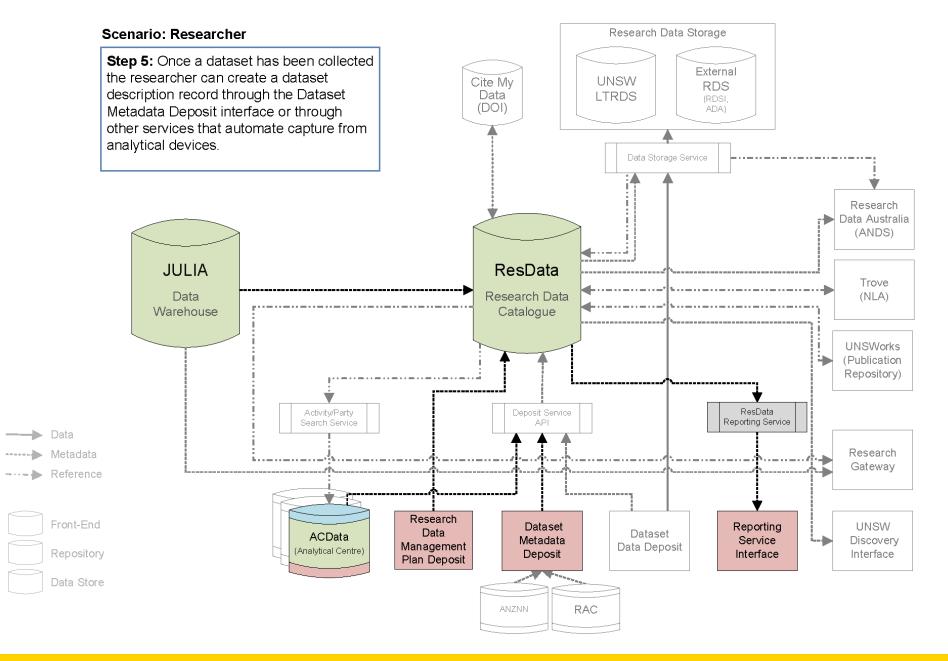




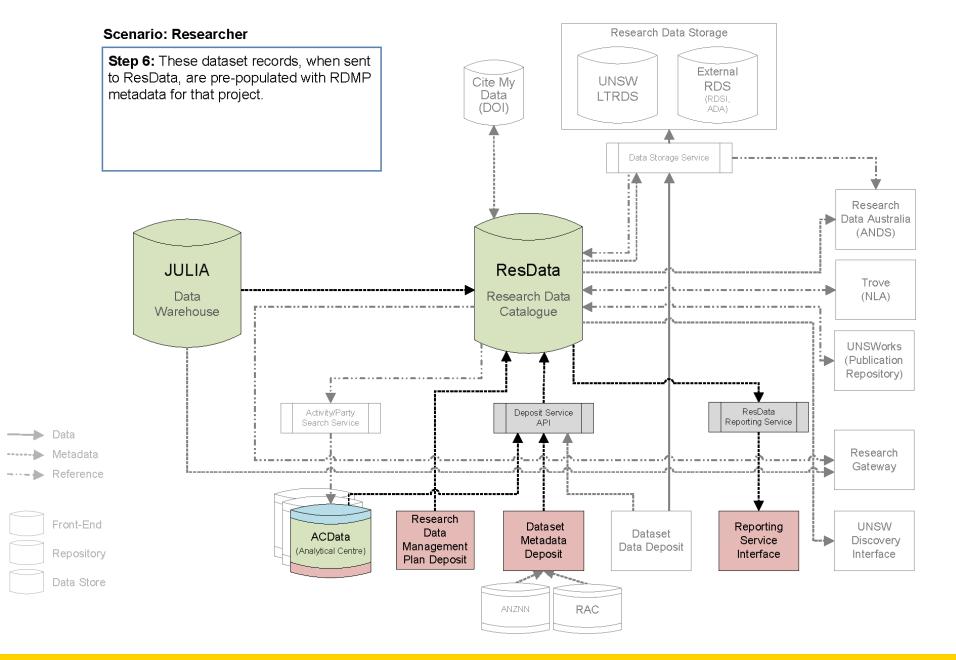




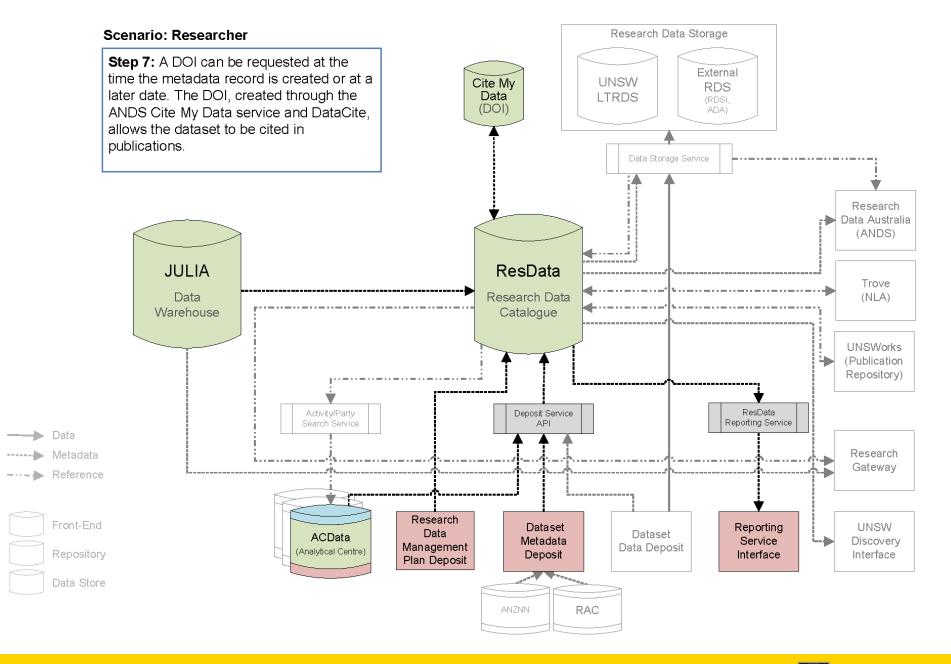




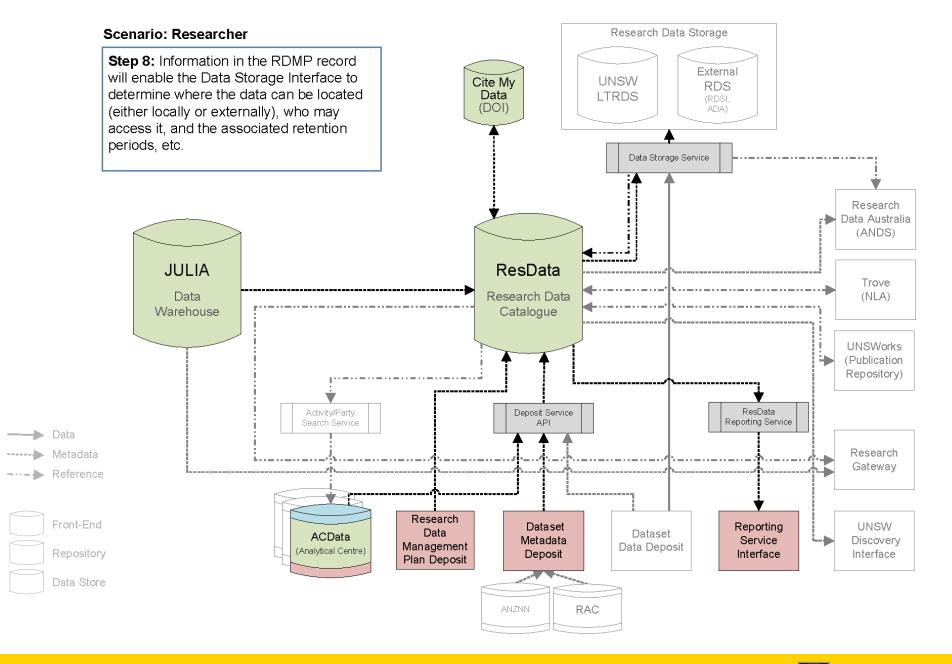








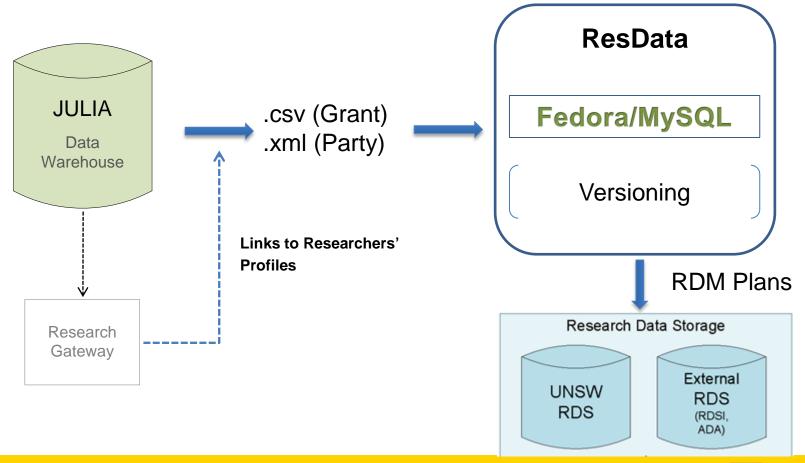








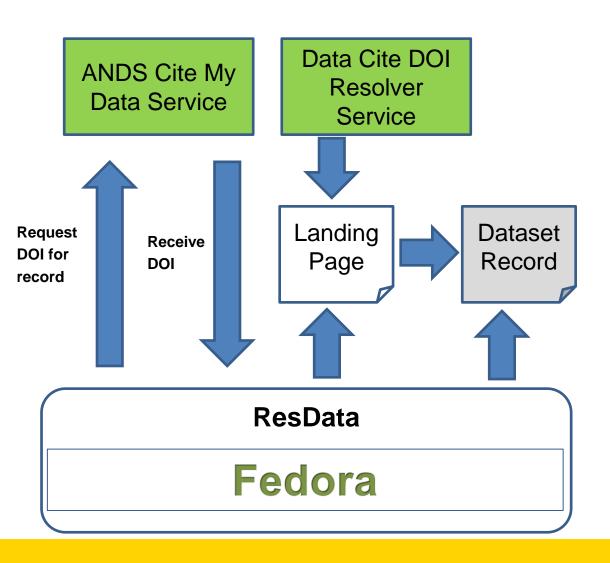
ResData Integration with UNSW Enterprise Databases







ResData Publish Workflow

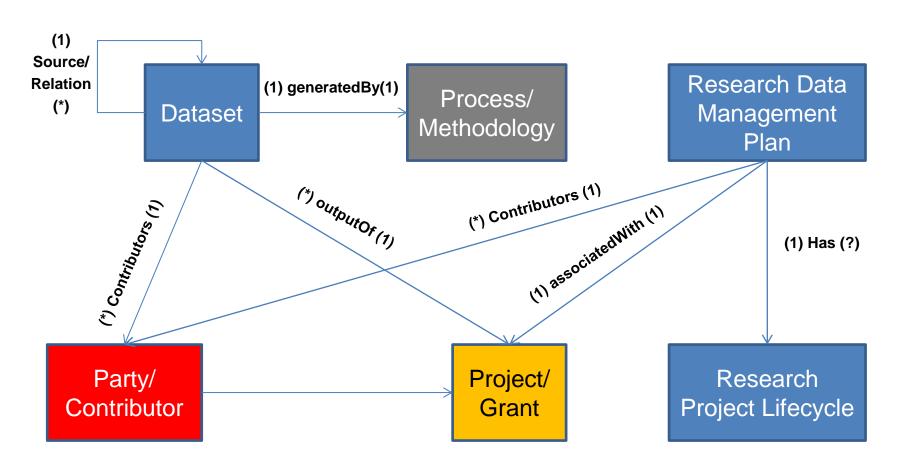


- ANDS Cite My Data
 Service API for
 requesting and
 assigning DOIs to
 dataset records
- DOI access resolves to landing page
- Landing page provides access to both the published record and other related resources

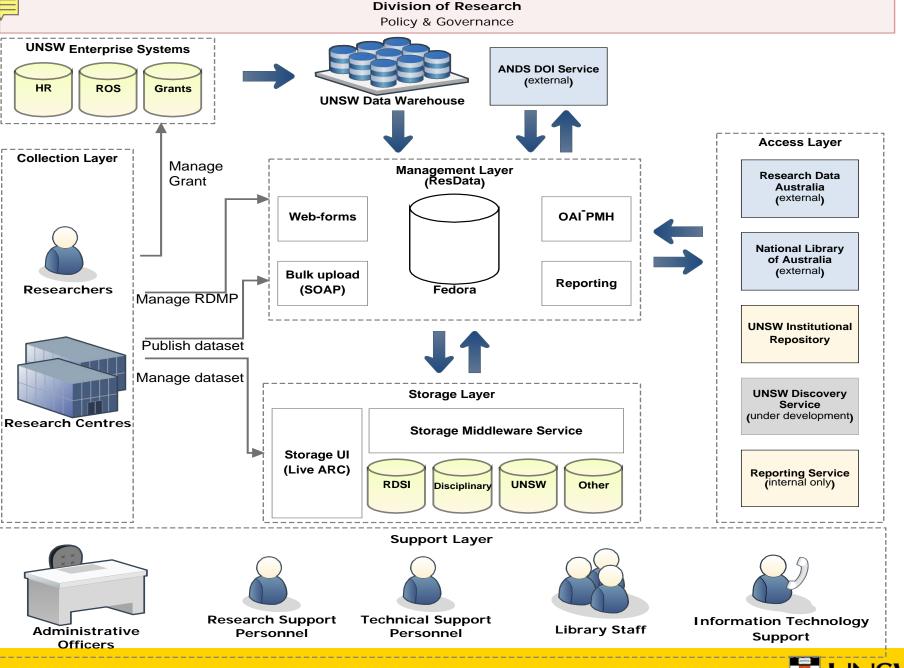




ResData Metadata Ontology











Sustainability

- Two levels of relationships
 - Research projects, outputs (data), and the associated personnel
 - Roles and responsibilities associated with the provision and sustainability of the service components
- Flexibility
 - Future requirements
 - Changing organisational structure and relationships





Conclusions and future work

- Higher degree research candidates
 - RDMP template
 - Automatic allocation of storage
- Research Data Storage Infrastructure (RDSI)



- Data Documentation Initiative metadata (DDI)
- UNSWorks preservation policy and procedures



ResData URL

https://resdata.unsw.edu.au/pages/authenticate.faces



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