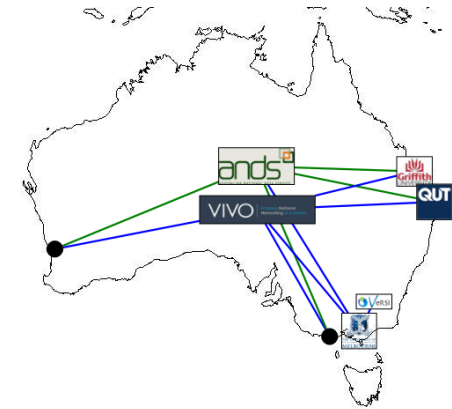


# BUILDING AN AUSTRALIAN USER COMMUNITY FOR VIVO



## Presenters:

**Robyn Rebollo**  
eResearch Senior Specialist  
(Information Management)  
Griffith University  
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**Simon Porter**  
Information Manager, Research  
University of Melbourne  
[simon.porter@unimelb.edu.au](mailto:simon.porter@unimelb.edu.au)

**Lance DeVine**  
Research Support Specialist  
Queensland University of Technology  
[l.devine@qut.edu.au](mailto:l.devine@qut.edu.au)



# BUILDING AN AUSTRALIAN USER COMMUNITY FOR VIVO

- **VIVO Adopters Project Team Members: (not exhaustive..)**
  - Malcolm Wolski, Project Stakeholder, Griffith Uni
  - Jo Morris, Project Mgr, Griffith Uni
  - Mark Fallu, Architecture, Griffith Uni
  - Gerhard Weis, Program Developer & Ontology, Griffith Uni
  - Arve Solland, Web Developer, Griffith Uni
  - Robyn Rebollo, Ontology and Metadata Dev, Griffith Uni
  - Lance DeVine, Architecture, Workflow, BA, QUT
  - Joe Young, Project Stakeholder, QUT
  - Simon Porter, Project Mgr / Architecture, Uni Melb
  - Cyrus Keong, Program Developer, Versi



THE UNIVERSITY OF  
MELBOURNE



9/9/2010 VIVO

list 2

# ABOUT US: GRIFFITH UNIVERSITY



- **Griffith University:**

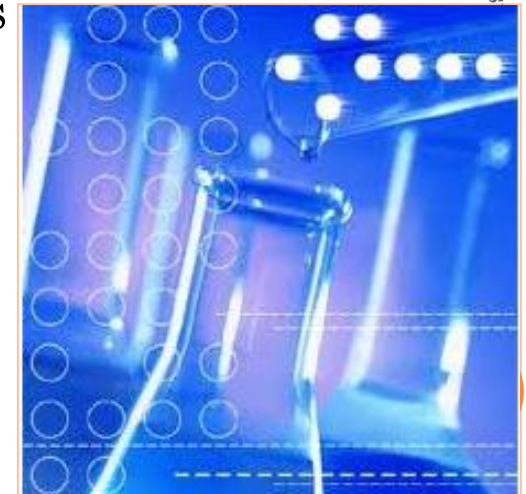
- Established in 1971 and officially opened in 1975.
- We are home to about 40,000 students from all over the world.
- Our 5 campuses span 3 cities
  - between Brisbane and the Gold Coast, each with distinct areas of teaching and research strength.
- Our five campus locations: Gold Coast, Logan, Mt Gravatt, Nathan and South Bank.



# ABOUT US: GRIFFITH UNIVERSITY



- Our research experts work in over 30 research centres developing new knowledge in the areas of medicine and healthcare, emerging technologies, social innovations, culture, learning and the arts, the environment, and governance and policy development.
- Our research centres include externally supported research centres and collaborations with external research institutions.



# ABOUT US: UNIVERSITY OF MELBOURNE



THE UNIVERSITY OF  
MELBOURNE

- **University of Melbourne:**
  - **Established 1853**
  - **11 Faculties/Graduate Schools**
  - **45,569 Students (Aug 2009)**
  - **7,326 Staff**





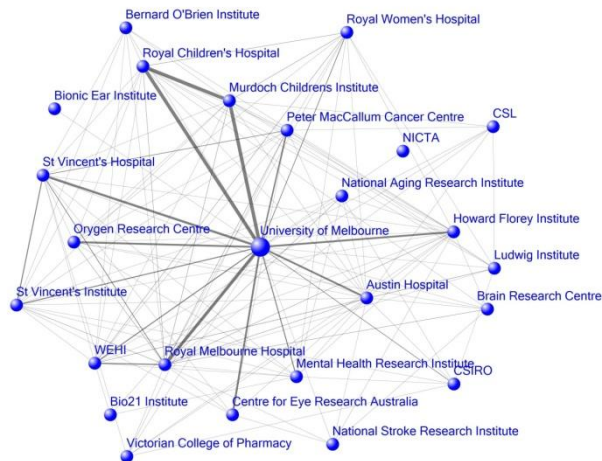
# ABOUT US: UNIVERSITY OF MELBOURNE



THE UNIVERSITY OF  
MELBOURNE

- **Research: Australia's leading research institution**
- 2010 audited research income of \$337 million
- National leader in publication outputs

Located within the Parkville Precinct: a world class biomedical research environment



THE PARKVILLE PRECINCT: MELBOURNE HUB OF LIFE SCIENCES & ICT GLOBAL RESEARCH

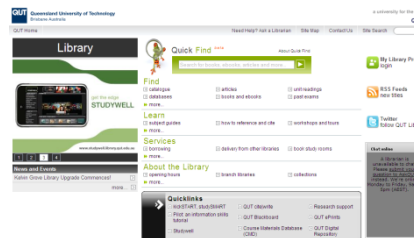
1. The Victorian Life Sciences Computation Initiative 2. Peter Doherty Institute for Infection and Immunity 3. Parkville Comprehensive Cancer Centre 4. Centre for Neural Engineering and the Data Storage Centre 5. Parkville Neurosciences Facility 6. Institute for a Broadband Enabled Society 7. The Royal Women's Hospital 8. The Royal Children's Hospital and Murdoch Children's Research Institute 9. The Royal Dental Hospital of Melbourne and The Melbourne Dental School 10. Altonhead Centre for Medical Discovery 11. BioGrid Australia 12. National ICT Australia: Victorian Research Laboratory 13. Bio21 Molecular Science and Biotechnology Institute 14. Walter & Eliza Hall Institute of Medical Research 15. University of Melbourne Faculty of Medicine Dentistry and Health Sciences 17. University of Melbourne Faculty of Science 18. University of Melbourne School of Engineering 19. University of Melbourne School of Land & Environment 20. University of Melbourne School of Veterinary Science 21. Melbourne Health and the Royal Melbourne Hospital 22. Peter MacCallum Cancer Centre 23. Bionik Ear Institute 24. Ludwig Institute for Cancer Research 25. Austin Life Sciences 26. Orygen Research Centre 27. Florey Neuroscience Institutes 30. Bernard O'Brien Institute of Microsurgery 31. Centre for Eye Research Australia 32. National Ageing Research Institute 34. St Vincent's Institute of Medical Research and St Vincent's Hospital 35. CSIRO Molecular & Health Technologies (Parkville) 36. Commonwealth Serum Laboratories Ltd

Institution Collaboration Pattern: 2008 publications (Thomson ISI)

# ABOUT US: QUEENSLAND UNIVERSITY OF TECHNOLOGY



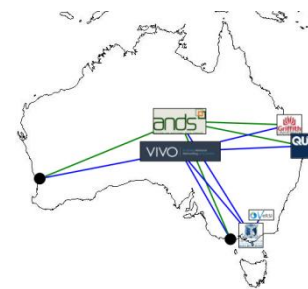
## ○ Queensland University of Technology:



QUT ...  
40,000 students  
1,700 researchers  
Inner-city Brisbane,  
Queensland, Australia



# WHAT BROUGHT US HERE ANDS



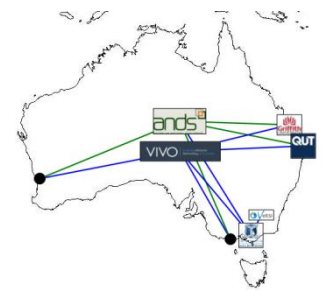
*“More Australian researchers reusing research data more often.”*

The Australian National Data Service (ANDS) aims to:

- influence national policy in the area of data management in the Australian research community
- inform best practice for the curation of data
- transform the disparate collections of research data around Australia into a cohesive collection of research resources



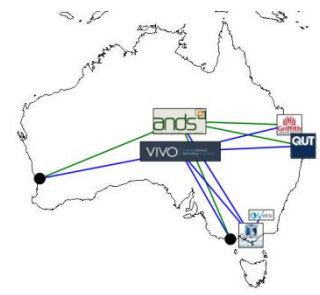
# ANDS



## ○ Australian National Data Service

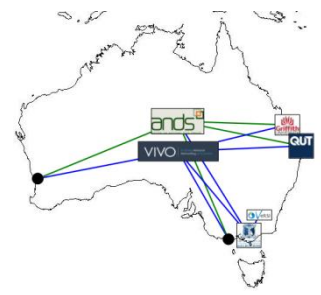
- Seeding the Commons – Projects that create infrastructure within institutions to collect and transform metadata about collections, then publish it to the Australian Research Data Commons (ARDC).
- Data Capture - Projects that create infrastructure within institutions to collect and manage data, and to improve the way metadata about it is managed.
- Metadata Stores (consolidating metadata about research data)
- Uni Melbourne, QUT and Griffith all received funding from ANDS to participate in Seeding the Commons and building infrastructure for metadata capture at each university.
- **More information:** [List of institutions with ANDS-funded ARDC projects](#)

# INTERNAL DRIVERS



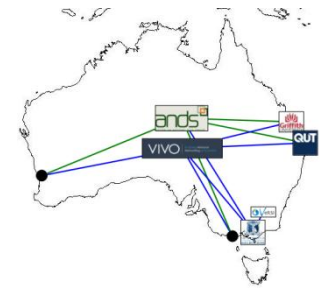
- Research Data Audit – Interviewing researchers (included a comprehensive questionnaire) helped us identify the kinds of research data that was out there, and whether it was available for discovery purposes. (Griffith / QUT)
- Profiling Researchers – The need to publically profile researchers via one gateway was evident after the NCRIS project. Also, there currently is no single staff profile system available that includes linked data between researchers, projects, collections and research publications. (Griffith)

# INTERNAL DRIVERS CONTINUE



- Research Data & Records Compliance (Uni Melb)
- To support the work of Seeding the Commons (Griffith / QUT) – Landing pages to display Research Data Australia records from each institution was required by ANDS.
-

# CHOOSING A TECHNOLOGY: VITRO



The screenshot shows the DataStar website interface. At the top left is the Cornell University logo and the 'DATASTAR' logo. A navigation menu includes 'Home', 'People', 'Research Groups', 'Data Sets', 'Repositories', 'For Data Authors', and 'Index'. A search bar is located on the right. The main content area features a 'Home' section with a photograph of a server rack and a welcome message: 'Welcome to DataStar, a Data Staging Repository hosted by Albert R. Mann Library, at Cornell University.' Below this, it states the purpose of DataStar and provides a 'Contact Us' link.

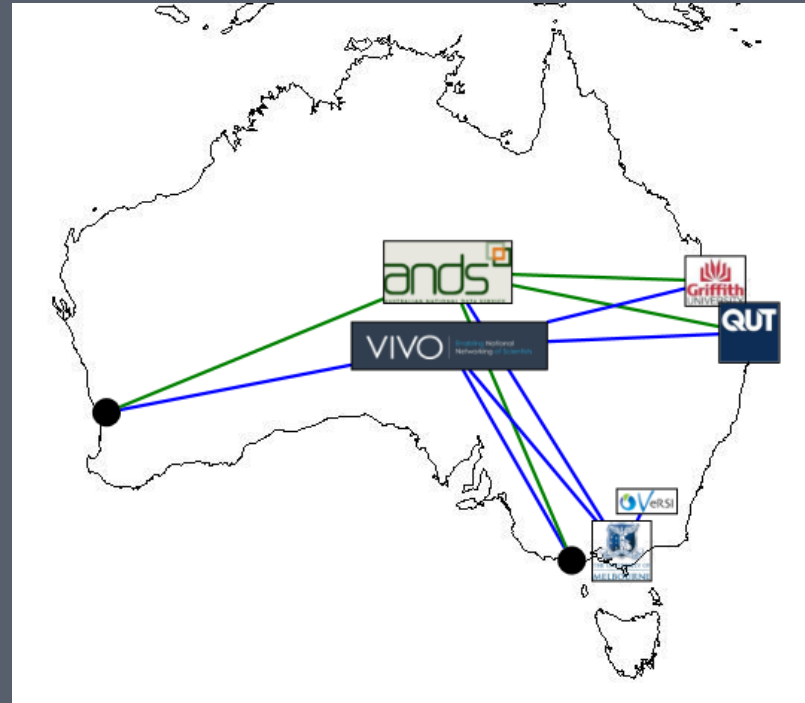
The screenshot shows the VIVO website interface. At the top is the Cornell University logo and the 'VIVO RESEARCH & EXPERTISE ACROSS CORNELL' logo. A navigation menu includes 'Home', 'People', 'Academic Units', 'Events & Seminars', and 'Research'. A search bar is located on the right. The main content area features a 'VIVO is a research-focused discovery tool' section with a search bar. Below this is a 'Making Headlines' section with two articles: 'GHEKIO wins 2010 Gates Award for Global Health' and 'Physics of gene transcription observed by CU researchers'. On the right side, there are sections for 'Faculty and Staff' and 'Upcoming Seminars'.

Standards Based

Semantic Web

Strategic Direction Strongly Aligned with ANDS agenda





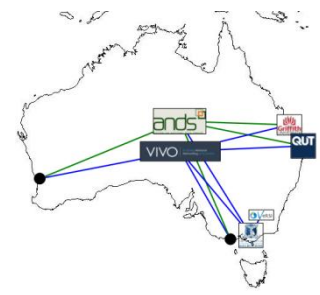
## RESEARCH ACTIVITY HUB

13



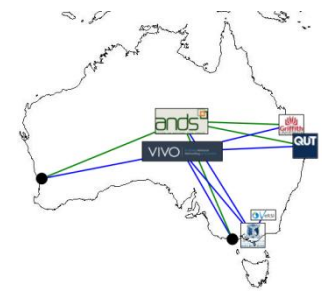


# METADATA EXCHANGE HUB



- The Education Investment Fund (EIF) project objective:
  - The purpose of the data exchange hub is to collect appropriate metadata from research collections (at the content metadata level where possible) within the University with customised (and automated where possible) feeds from the various University content management systems. This hub will then act as a central University repository to feed information in a standard format to the Australian Research Data Commons, and university library discovery tools and other research federations where appropriate.
  - The overall objective is to develop a sustainable solution to automate the collation of new research data held within the University and to populate Research Data Australia.
- Joint project implementation by QUT and Griffith Uni.

# RESEARCH ACTIVITY HUB

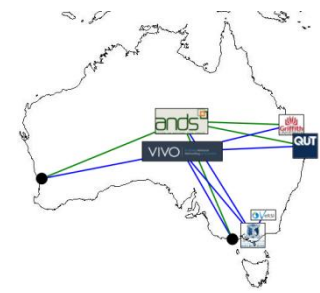


- VIVO in Action! - Home Page

9/9/2010

A screenshot of a web browser displaying the Research Activity Hub website. The browser's address bar shows the URL: http://vivo-dev.rcs.griffith.edu.au:8080/vivo/. The page features the Griffith University logo on the left and navigation links like 'Campuses | Contact us' and a search box on the right. The main heading is 'Research Activity HUB' with a network diagram icon. A sidebar on the left lists navigation options: Home, Researchers, Collections, Groups, Projects, and Services. The main content area has a 'Home' section with a welcome message and a 'Related Links' section with a link to 'Research Data Australia'. At the bottom, there is a logo for 'Innovative Research Universities' and a footer with links for 'Feedback | Privacy policy | Copyright matters | CRICOS Provider - 00233E'.

# RESEARCH ACTIVITY HUB



- VIVO in Action! - Researchers in the Hub

The screenshot shows the Griffith University Research Activity HUB website. The header includes the Griffith University logo, navigation links for 'Campuses' and 'Contact us', a search box, and the title 'Research Activity HUB'. A sidebar on the left lists navigation options: Home, Researchers, Collections, Groups, Projects, and Services. The main content area is titled 'Researchers' and includes a definition: 'A researcher is a person at Griffith University that has a relation to a collection, project, service or group in the Hub. Researchers represented in the Hub include Griffith faculty and researchers.' Below this is a search section titled 'Search researchers' with a text input field containing 'Hero' and a 'Search' button. A dropdown menu shows search results: 'Mrs Carolyn Cichero', 'APro Jean-Marc Hero', and 'Ms Kathleen Protheroe'. A horizontal navigation bar with letters A through Z is visible, with 'D' highlighted. A list of researchers follows, starting with 'Haasmann, Daniel Erwin' and ending with 'Hamlyn-Harris, David'.

Griffith UNIVERSITY

Campuses | Contact us search website GO

## Research Activity HUB

Log in | About

### Research Hub

- > Home
- > Researchers
- > Collections
- > Groups
- > Projects
- > Services

### Researchers

A researcher is a person at Griffith University that has a relation to a collection, project, service or group in the Hub. Researchers represented in the Hub include Griffith faculty and researchers.

#### Search researchers

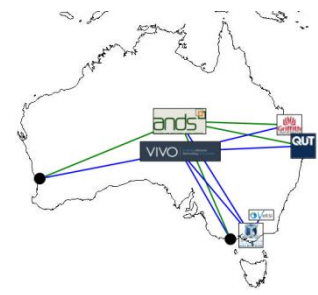
Name search: Hero

Mrs Carolyn Cichero  
APro Jean-Marc Hero  
Ms Kathleen Protheroe

A B C D M N O P Q R S T U V W X Y Z

- > Haasmann, Daniel Erwin
- > Hacker, Charles Hilton
- > Hadwen, Wade Lynton
- > Haebich, Anna Elizabeth
- > Hafenstein, Tanja Ann
- > Hagiwara, Kazuhiko
- > Hagiwara, Sachiko
- > Haines, Santhini
- > Hales, Robert James
- > Halford, Graeme
- > Halford, Graeme Sydney
- > Halford, Kim
- > Hall, Anthony
- > Hall, Cameron James
- > Hall, Christopher Ian
- > Hall, Maree Patrice
- > Hall, Miles Stewart
- > Hall, Randall John
- > Hall, Wayne
- > Halliday, Lucy Georgina
- > Hamidin, Nasrul
- > Hamilton, John
- > Hamilton, Peter Maxwell
- > Hamilton, Steven
- > Hamilton-Craig, Ian
- > Hamlet, Stephen
- > Hamlyn-Harris, David

# RESEARCH ACTIVITY HUB



- VIVO in Action! - Researcher Profile

**Research Hub**

- Home
- Researchers
- Collections
- Groups
- Projects
- Services

---

**APro Jean-Marc Hero**

**Contact Details**

<b>Title</b>	APro
<b>First Name</b>	Jean-Marc
<b>Last Name</b>	Hero
<b>Work Phone</b>	5552 8661
<b>Work Email</b>	m.hero@griffith.edu.au
<b>Location</b>	Environmental Futures Centre (EFC) Parklands Drive Southport 4222 QLD Australia

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**Affiliations**

- ✓ Environmental Futures Centre | Group
- Griffith School of Environment | Group
- Karawatha Forest Park - Terrestrial Plots | Collection

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**Associated Projects**

**Manages**

- ✓ PPEo Australasia - Karawatha

---

**Associated Collections**

**Manages**

- ✓ Karawatha Forest Park - Terrestrial Plots

---

**List of Publications**

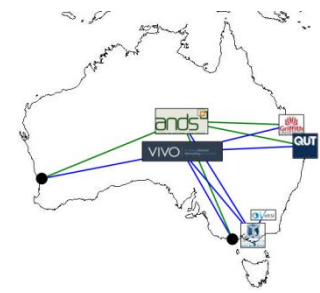
- <http://www98.griffith.edu.au/dspace/items-by-author?author=Hero%2C+Jean-Marc>

---

**Related Links**

- [http://www.griffith.edu.au/cgi-bin/phone\\_search.pl?string=Jean-Marc+Hero&format=search](http://www.griffith.edu.au/cgi-bin/phone_search.pl?string=Jean-Marc+Hero&format=search)
- <http://www.griffith.edu.au/environment-planning-architecture/environmental-futures-centre/staff/associate-professor-jean-marc-hero>
- <http://nla.gov.au/nla.party-493185>

# RESEARCH ACTIVITY HUB



- VIVO in Action! - Groups in the Hub

The screenshot shows the Griffith University Research Activity HUB website. The header includes the Griffith University logo, navigation links for 'Campuses | Contact us', a search bar, and a 'GO' button. The main heading is 'Research Activity HUB' with a network diagram icon. A sidebar on the left lists navigation options: Home, Researchers, Collections, Groups, Projects, and Services. The main content area is titled 'Groups' and provides a description of what a group is. Below this is a search box for group names. A navigation bar shows letters A through S, with 'A' selected. Under 'A', four research groups are listed: Atmospheric Environment Research Centre, Australian Centre for Intellectual Property in Agriculture, Australian Institute for Suicide Research and Prevention, and Australian Rivers Institute. A summary states 'Total of 4 listings starting with A. Back to top'. At the bottom, it says 'Total Listings: 73'.

Griffith UNIVERSITY

Campuses | Contact us

search website GO

## Research Activity HUB

Log in | About

### Research Hub

- » Home
- » Researchers
- » Collections
- » Groups
- » Projects
- » Services

### Groups

A group describes an organisational unit at Griffith University that has a relation to a collection, project, service or researcher in the Hub. Groups represented in the Hub include Griffith faculties, schools, centres and research centres.

**Search groups**

Group name search:

**A** B C D E F G H I K M N O P Q R S

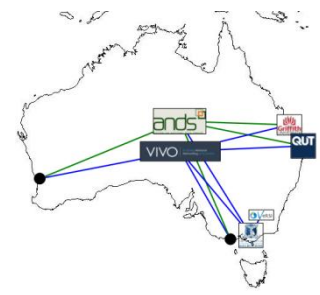
- » Atmospheric Environment Research Centre
- » Australian Centre for Intellectual Property in Agriculture
- » Australian Institute for Suicide Research and Prevention
- » Australian Rivers Institute

Total of 4 listings starting with **A**. [Back to top](#)

Total Listings: 73



# RESEARCH ACTIVITY HUB



- VIVO in Action! - Group Profile

The screenshot shows the Griffith University Research Activity Hub website. The header includes the Griffith University logo, navigation links for 'Campuses' and 'Contact us', a search bar, and a 'Log in | About' link. The main content area is titled 'Environmental Futures Centre' and includes sections for 'Details', 'Manages', and 'Members'.

**Research Hub**

- > Home
- > Researchers
- > Collections
- > Groups
- > Projects
- > Services

**Environmental Futures Centre**

**Details**

<b>Group Name</b>	Environmental Futures Centre
<b>Work Phone</b>	3735 7021
<b>Work Fax</b>	
<b>Webpage</b>	<a href="http://griffith.edu.au">griffith.edu.au</a>

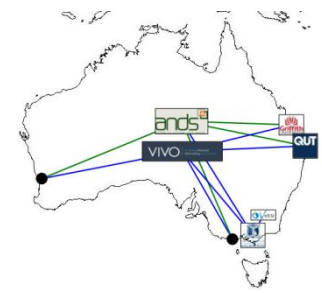
**Manages**

- > [Karawatha Forest Park - Terrestrial Plots](#) | Collection

**Members**

- > [Cousin,Jarrad](#)
- > [Freeman,Amanda Nancy Diane](#)
- > [Johnson,Gayle Patricia](#)
- > [Hero,Jean-Marc](#)

# RESEARCH ACTIVITY HUB

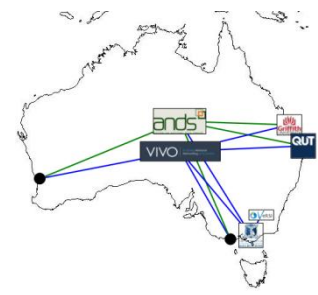


- VIVO in Action! - Projects in the Hub

The screenshot shows the Griffith University Research Activity Hub website. The header features the Griffith University logo, navigation links for 'Campuses' and 'Contact us', a search bar with a 'GO' button, and the title 'Research Activity HUB' with a network diagram icon and 'Log in | About' links. A left sidebar contains a 'Research Hub' menu with options: Home, Researchers, Collections, Groups, Projects, and Services. Below the menu is a search bar with a 'Search' button. The main content area is titled 'Projects' and includes a definition: 'A project is any piece of research work that is undertaken or attempted, with a start and end date and defined objectives. Projects represented in the Hub include, but are not limited to, Australian Research Council, National Health and Medical Research Council and other federal or state funded grants.' Below this is a 'Search projects' section with a 'Project name search:' input field. A navigation bar with letters A through Y is present, with 'A' selected. A list of project titles is displayed under the letter 'A':

- » "Learning through (e-)sharing: a corpus-based approach to the pragmatics of English" Creating the Griffith Corpus of Spoken Australian English (GCSAusE)
- » "Understanding the mechanism of Wolbachia mediated antiviral protection"
- » 2x Basler digital (DCAM) colour cameras (100 frames per second at 656x492 resolution) with lens, cables and tripod for use with existing Vicon motion capture system
- » A Colonial and Conceptual History of Asymmetric Warfare and Security
- » A Comparative Analysis of Gambling Regulation in Australian States and Territories
- » A Comparative Study of an Education Intervention to Promote Family Involvement in Residential Dementia Care
- » A Comparison of Anticipated Benefits and the Personal, Educational and Social Outcomes of Cochlear Implantation in Deaf Children
- » A Cultural History of Information: Lessons from the Enlightenment
- » A Focussed Ion Beam-Scanning Electron Microscope for Advanced Analytical and Nanotechnology Research
- » A High Resolution Analytical Scanning Electron Microscope for South-East Queensland
- » A High-Throughput Neutron Spectrometer for the Study of Atomic and Molecular Motion at ANSTO
- » A National T-ray Facility

# RESEARCH ACTIVITY HUB



- VIVO in Action! - Project Record

**Research Hub**

- > Home
- > Researchers
- > Collections
- > Groups
- > Projects
- > Services

Search

**PPBio Australasia - Karawatha**

**Details**

---

**Project Name** PPBio Australasia - Karawatha  
**Short Description**  
**Start Year-Month** 2010-07  
**End Year-Month** 2010-07  
**Work Email** m.hero@griffith.edu.au  
**Location** Griffith School of Environment (ENV)  
170 Kessels Road  
Nathan 4111 QLD  
Australia

**Subject Areas**

---

**Field Of Research**

- > Ecological Applications
- > Environmental Science and Management

**Managed by**

---

> Hero, Jean-Marc

**Relations**

---

> Griffith School of Environment | Group

**Participants**

---

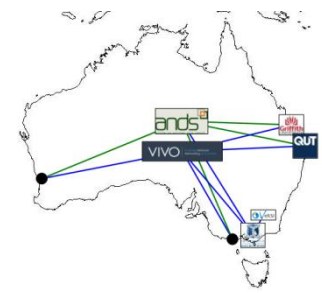
> Castley, James Guy

**Output**

---

> Karawatha Forest Park - Terrestrial Plots

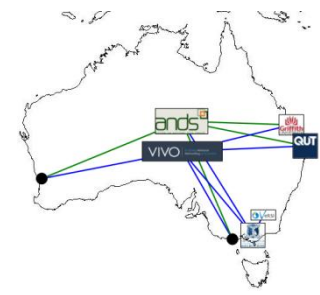
# RESEARCH ACTIVITY HUB



- VIVO in Action! - Research Collections in the Hub

A screenshot of a web browser displaying the Griffith University Research Activity Hub. The browser address bar shows 'http://vivo-dev.rcs.griffith.edu.au:8080/vivo/templa...'. The page features the Griffith University logo on the left and the title 'Research Activity HUB' in the center. Below the title, there is a search bar and a 'GO' button. A navigation menu on the left lists 'Home', 'Researchers', 'Collections', 'Groups', 'Projects', and 'Services'. The main content area is titled 'Collections' and contains a list of research collections. The collection 'Karawatha Forest Park - Terrestrial Plots' is highlighted with a blue border. At the bottom, it says 'Total: 12'. The browser interface includes standard navigation buttons and a search bar.

# RESEARCH ACTIVITY HUB



- VIVO in Action! - Research Collection Record

**Research Hub**

- » Home
- » Researchers
- » Collections
- » Groups
- » Projects
- » Services

## Karawatha Forest Park - Terrestrial Plots

---

**Details**

**Collection Name** Karawatha Forest Park - Terrestrial Plots  
**Collection Type** Dataset  
**Short Description** PPBio LTER program: Terrestrial plot data for Karawatha Forest Park, Southeast Queensland. PPBio research grid with 33 plots has been established in Karawatha Forest Park, Brisbane. Data collected include: (i) mesoscale variation of flora and fauna communities in response to factors such as soil, topography and fire history; and (ii) associations between fauna species composition and vegetation.

**Collection Rights** Access to this dataset is supplied on condition that the principal investigators responsible for collecting data in the dataset are credited in any publications that use the data. It is recommended that persons interested in using the data contact the collection owner.

**Webpage** [http://equella.rcs.griffith.edu.au/research/items/389a7b06-f719-1963-54ff-99044e36b0ef/1/7tempvmbwaccess%2Fsearch.do%3Fpg.e%3Dtrue%26pg\\_pp%3D10%26pg\\_pg%3D9cf-71c7-2503-a220ba660714%26qs.tq%3D%26qs.iq%3D%26sort\\_s%3DRANK%26she\\_ca](http://equella.rcs.griffith.edu.au/research/items/389a7b06-f719-1963-54ff-99044e36b0ef/1/7tempvmbwaccess%2Fsearch.do%3Fpg.e%3Dtrue%26pg_pp%3D10%26pg_pg%3D9cf-71c7-2503-a220ba660714%26qs.tq%3D%26qs.iq%3D%26sort_s%3DRANK%26she_ca)

**Coverage**

---

**Subject Areas**

**Field Of Research**

- » Ecological Applications
- » Environmental Science and Management

**Managed by**

- ✓ » Hero, Jean-Marc
- » Environmental Futures Centre



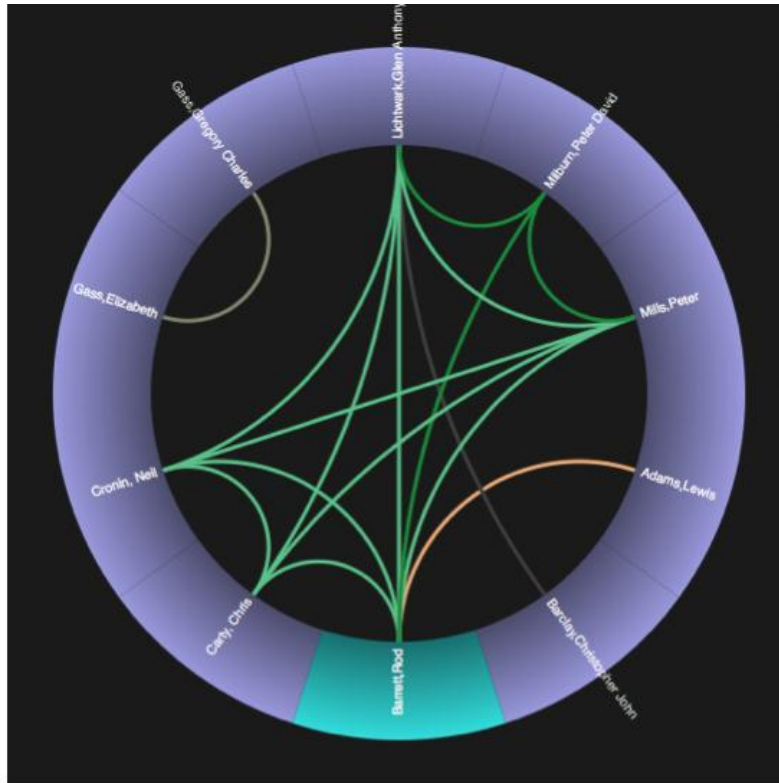
# VISUALIZING COLLABORATIONS USING JAVASCRIPT INFOVIS TOOLKIT

## Connected Sunburst

Dynamic SPARQL query is used as input for this visualization.

This example shows how researchers within a group collaborates through projects.

Left click to select a node (researcher) and show its relations.



## Barrett, Rod connections

2x Basler digital (DCAM) colour cameras (100 frames per second at 656x492 resolution) with lens, cables and tripod for use with existing Vicon motion capture system

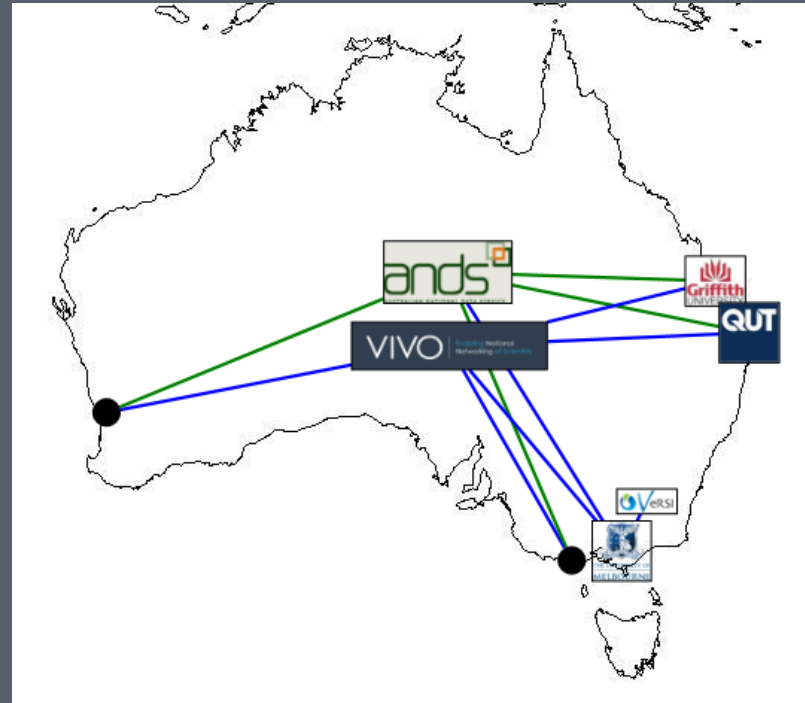
- Milburn, Peter David

Ageing, falls and balance recovery

- Lichtwerk, Glen Anthony
- Mills, Peter
- Carty, Chris
- Cronin, Neil

Dynamics of locomotion: visualisation in skill acquisition & rehabilitation

- Adams, Lewis



# RESEARCH DATA REGISTRY

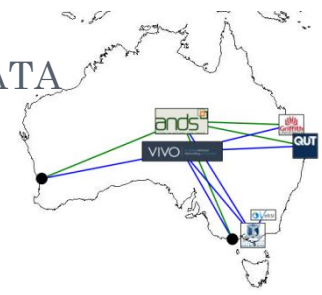
25



THE UNIVERSITY OF  
MELBOURNE



# MULTIPLE GOALS FOR THE ESTABLISHMENT OF A RESEARCH DATA REGISTRY



## Goals:

- Participation in the national research data commons

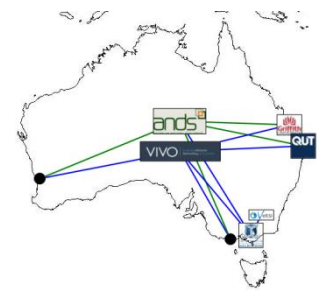


- The need to play a key role in helping the University communicate its research identity both internally and externally



- The need to enable university research data and records policy compliance



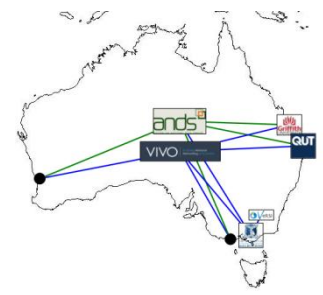


## BACKGROUND: THE NEED FOR A RESEARCH DATA REGISTRY

- Policy – 2005, review 2009
  - Good start but not enough
- Audit – 2007, 2009
  - Policy and compliance is off the radar for most
  - Compliance – patchy
  - Storage – ad hoc
  - Local registers
  - Risk management



# ENGAGING WITH RESEARCHERS



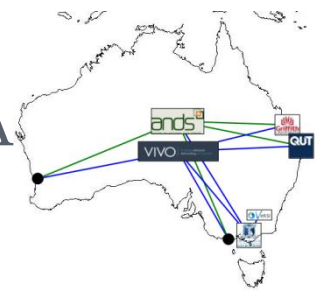
Central resources are the missing key to enabling compliance

- **Central storage** – a petabyte-scale Research Data Centre for Parkville Precinct
- **A Central research data registry**





# WHAT IS A CENTRAL RESEARCH DATA REGISTRY?

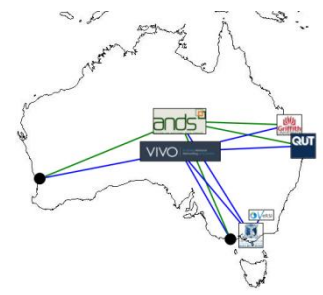


- Definition: This is an institution-wide record of all research data and records stored in the university.
- At a minimum:
  - description of the research data and records, associated researchers and projects,
  - the location of the data (digital and analogue),
  - access restrictions,
  - and relocation and disposal schedules.

(requirements based on policy)



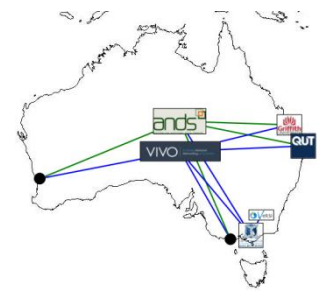
# SCALE



- Intended scale (biggish) – definitely enterprise scale
- Over time, it should be as important to the University as publications reporting and grants management



## A CENTRAL RESEARCH DATA REGISTRY IS NOT AN INFORMATION SILO

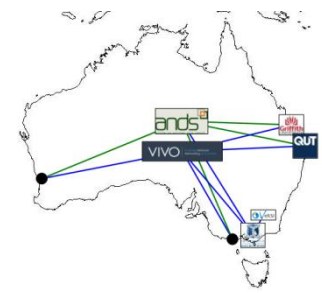


A central research data registry happens in the context of richly described research:

- Grants, Publications, Research Program, External and Internal Researchers, and departments
- All of this information exists and should be reused in the registry...
- Should not be an information silo



# BUILDING THE REGISTRY



- Piggybacking on our public researcher profile system - 'find an expert' dataset...

<http://www.findanexpert.unimelb.edu.au/>

## Search results for Find an Expert

SEARCH POWERED BY funnelback   [help](#)

1 - 10 of 32 search results

### PROF Ian Ramsay

[\(full profile\)](#)

#### Law

#### Research Interests/Keywords

- corporate law, corporate governance, securities regulation

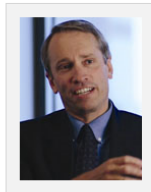
#### Matching Publications (39)

[More](#)

- Commercial applications of company law
- Commercial applications of company law in Malaysia
- Commercial applications of company law in Singapore

#### Matching Grants, Contracts and Consultancies (1)

- Partnerships at work: the interaction between employment systems, corporate governance & ownership structure



#### Filter results by...

##### Department

- [law](#) (15)
- [social and political sciences](#) (3)
- [finance](#) (3)
- [accounting and business information systems](#) (3)
- [melbourne business school](#) (2)
- [management and marketing](#) (2)
- [architecture, building and planning](#) (2)
- [historical studies](#) (1)
- [more...](#)

##### Who's Who (Media)

[Who's Who /B/](#)

[Home](#) > Find an Expert

#### Find an Expert

- Find an Expert
  - Experts by Organization
  - Experts by RFCD Classifications
  - Experts by SEO Classifications
  - Experts by Country of Research Expertise
  - Experts by International Linkages
  - Data for Departments (University Only)
  - About Find an Expert
  - Feedback
- Melbourne Research Office
- Asialink
- International Relations Office
- Media and Publication Services Office

#### A/PROF DAVID PHILLIPS

[Contact Details](#) [Awards & Qualifications](#) [Grants & Contracts](#) [Publications](#) [Research Classifications](#)

#### Publications

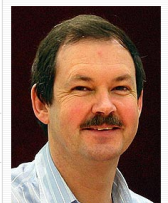
Publications produced at the University of Melbourne and reported in the Annual Publications Collection and Research Report since 2001. The Themis Publications module, released in November 2006, allows additional publications from previous institutions and publications from past years to be entered.

[\(Show full listing\)](#)

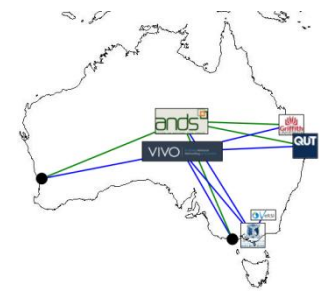
#### Publications in 2006

##### Journal Articles

- <sup>40</sup>Ar/<sup>39</sup>Ar thermochronology of the Kampa Dome, southern Tibet: Implications for tectonic evolution of the North Himalayan gneiss domes  
[\(Hide details\)](#)  
Year: 2006  
Journal: Tectonophysics  
Volume: 421  
Page numbers: 269-297  
Author(s): [M. C. QUIGLEY](#), Y Liangjun, L Xiaohan, [C. WILSON](#), [M. SANDIFORD](#), [D. PHILLIPS](#)  
Super Search: [Source 1](#) [locate this resource.](#)
- <sup>40</sup>Ar/<sup>39</sup>Ar dating of mica-bearing pyrite from thermally overprinted Archean gold deposits [\(Show details\)](#)
- Noble gas and halogen constraints on mineralizing fluids of metamorphic versus surficial origin: Mt Isa, Australia. [\(Show details\)](#)



# DATA ENTRY PROCESS



**DR PETER RAISBECK**

Find an Expert

Search

Experts by Organization

Experts by WFCO Classification

Experts by SEO Classification

Experts by Country of Research Expertise

Experts by International Linkages

Data for Departments (University Only)

About Find an Expert

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Knowledge Transfer & Partnership Office

Melbourne Research Office

Melbourne Consulting and Custom Programs

News Room

Advis

International Relations Office

Contact Details Biography Expertise & Linkages Languages Awards & Qualifications Grants & Contracts Publications Research Classifications

**Publications**

Publications produced at the University of Melbourne and reported in the Annual Publications Collection and Research Report since 2001. The Theses Publications module, released in November 2006, allows additional publications from previous institutions and publications from past years to be entered.

[Show full list\(s\)](#)

**Publications in 2009**

**Conference Publications/Papers**

- PPPs and the global credit crunch: what next for the PPP financial model and global governance?[\(Show details\)](#)

**Publications in 2008**

**Book Chapters**

- Biometric futures: global biometrics and the architectural production of intelligent buildings[\(Show details\)](#)
- Developing a framework of retained risk in Public-Private Partnership (PPP) social infrastructure projects[\(Show details\)](#)

**Journal Articles**

- Perceptions of architectural design and project risk: understanding the architects' role in a PPP project[\(Show details\)](#)

Year: 2008  
Journal: Construction Management and Economics  
Volume: 26  
Issue: 10-12  
Page numbers: 1145-1157  
Author(s): P. RAISBECK  
Sign [Source](#) [Locate this resource](#)  
Search

**Conference Publications/Papers**

(1) Pre seed Data Registry with Find an Expert data

**Perceptions of architectural design and project risk: understanding the architects' role in a PPP project**

Author: Peter Raisbeck\*

**Affiliation:** \* Department of Architecture, Building and Planning, University of Melbourne, Melbourne, 3010 Australia

DOI: 10.1080/01446190802512342

Publication Frequency: 12 issues per year

Published in: [Construction Management and Economics](#), Volume 26, Issue 11 2008, pages 1145 - 1157

**Abstract**

Southern Cross Station is one of the largest public-private partnership (PPP) projects undertaken in Australia. In this project the architects played a significant role in developing an iconic design which has received international professional design awards and much media attention. In the media the architects' design was perceived as having impacted negatively on capital costs. Given these contradictory perceptions, the aim of this study was to better understand perceptions of the architects' role in relation to project risks arising out of their design. A survey of key project executives working in the PPP consortium responsible for delivering the project was undertaken. The survey was structured by a framework combining the PPP life cycle, project risks and the idea that architectural design can be viewed as a research and development activity rather than simply as a problem-solving activity. The survey responses point to the fact that the architects mitigated technical and operating risks and their activities had little bearing on the project's substantial write-downs. This counters media perceptions of the project that the design activities of the architects



**Central Research Data Registry**

Links: University Homepage Go Search: Search the University

Faculties | A-Z Directory | Library

Central Research Data and Records Registry

**Data Registry**

- Home
- Data sets
- Potential Data Sets
- Department
- Institute
- People
- Research Group
- Data sets for the Data Commons
- Register My Data
- Index

Search

**Home**

NB: This Registry is under construction and may not have full functionality in places.

The Central Research Data Registry is an institution-wide record of the research data and records stored at the University of Melbourne. The central registry includes a description of the research data and records, the name(s) of associated researchers and projects, the location of the data (digital and analogue), access restrictions, relocation and disposal schedules, and the organisational unit responsible for the ongoing stewardship of the records and data.

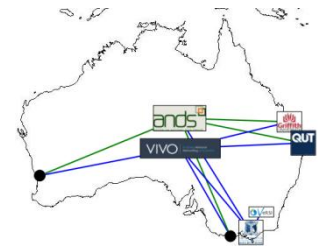
- Log In
- About
- Contact Us

(2) Scan for references to data in publications

(3) Create Skeleton Research Data Record

(4) Infer as many of the details about the research data record from the publication

# REGISTRY OUTPUT



Central Research Data Registry

Architecture, Building and Planning

Research Data Custodian

research data for 'Individual harms, Community harms': reconciling Indigenous values with drug harm minimisation policy

research data for "Negative interference" between Australian construction professionals' work and family roles: Evidence of an asymmetrical

research data for 3D Crossover: exploring objects of

research data for A consumer-oriented technique for planned residential developments

research data for Adapting Cellular Automata to Su Process

119 more

employs

AHMED, KHONDKAR (DR)

AIBINU, AJIBADE (DR)

ASHFORD, PETER (MR)

BARRINS, JOSEPH (DR)

BENNETT, ROHAN (MR)

Search

Central Research Data Registry

HEYWOOD, CHRISTOPHER (DR)

affiliation

Architecture, Building and Planning

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Central Research Data Registry

research data for A consumer-oriented technique for planned residential developments *Research Data*

The empirical study is based on innovation theory where end-users are primary stakeholders in the innovation process, and even innovators themselves. A case study of a new participation method based on a two-phase internet questionnaire is used to research practical solutions in integrating end-users into urban planning process.

Research Descriptions

results published in

[A consumer-oriented technique for planned residential developments](#)

Custodians

Associated Principal Investigator

[HEYWOOD, CHRISTOPHER \(DR\)](#)

Custodian Department

[Architecture, Building and Planning](#)

Log In

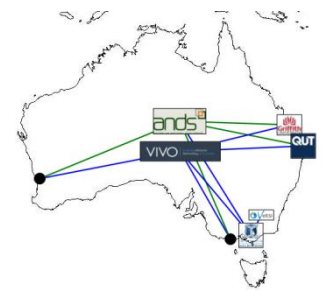
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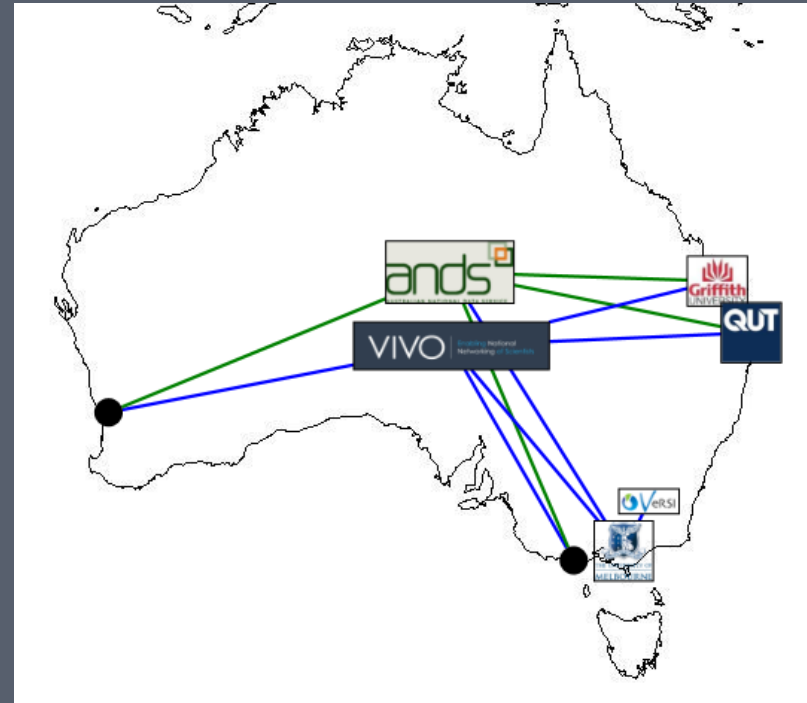


# FEEDBACK SO FAR...



- Feedback from the Faculty (so far)

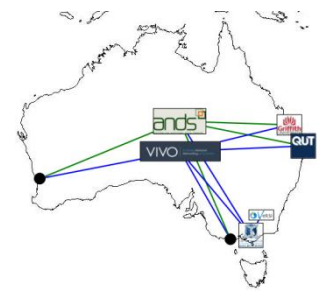




# STANDARDS TECHNOLOGY AND DEVELOPMENT

36

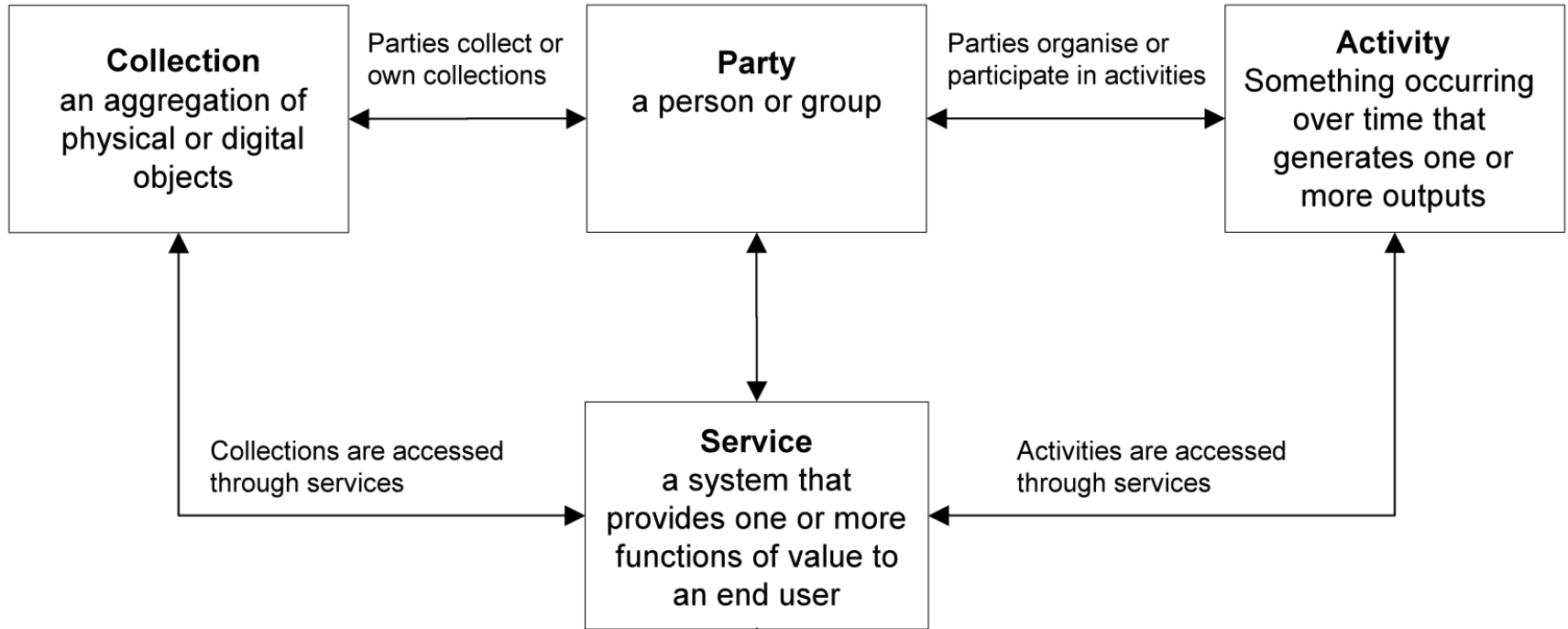
# STANDARDS



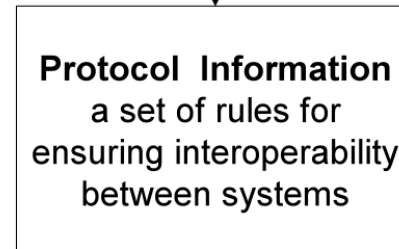
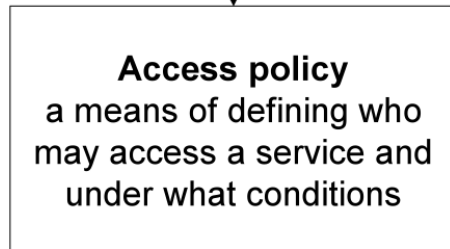
- **RIF-CS**
- The Registry Interchange Format - Collections and Services (RIF-CS) Schema was developed as a data interchange format for supporting the submission of metadata to a collections service registry.
- It is based on ISO2146 but only includes elements needed for a collection service registry and so is not a full binding to the standard.
- **OAI-PMH**
- The Open Archives Initiative Protocol for Metadata Harvesting (OAI-PMH) is a low-barrier mechanism for repository interoperability. **Data Providers** are repositories that expose structured metadata via OAI-PMH. **Service Providers** then make OAI-PMH service requests to harvest that metadata.

# ISO2146

## Registry Object



Services have access policies



Services may be delivered through protocols

# Registry Interchange Format - Collections and Services (RIF-CS)

## Registry Object

Collection

Catalogue or Index  
Collection  
Registry  
Repository  
Dataset

Party

Group  
Person

Activity

Award  
Course  
Event  
Program  
Project

Service

Harvest – OAI-PMH  
Search – Z3950  
Syndicate – RSS ...

# RIF-CS: A TYPICAL OBJECT

Type

A value taken from a controlled vocabulary indicating the type of object being described.

Identifier

Primary and alternative identifiers for the object.

Name

The name of the object in either a simple or compound form.

Description

A textual description or URI resolving to a description relevant to the object.

Subjects

A subject category into which the object falls or the object is related.

Location

Location(s) relevant to the collection. A location element should contain information about a single location (e.g. collection web site).

Related  
Objects

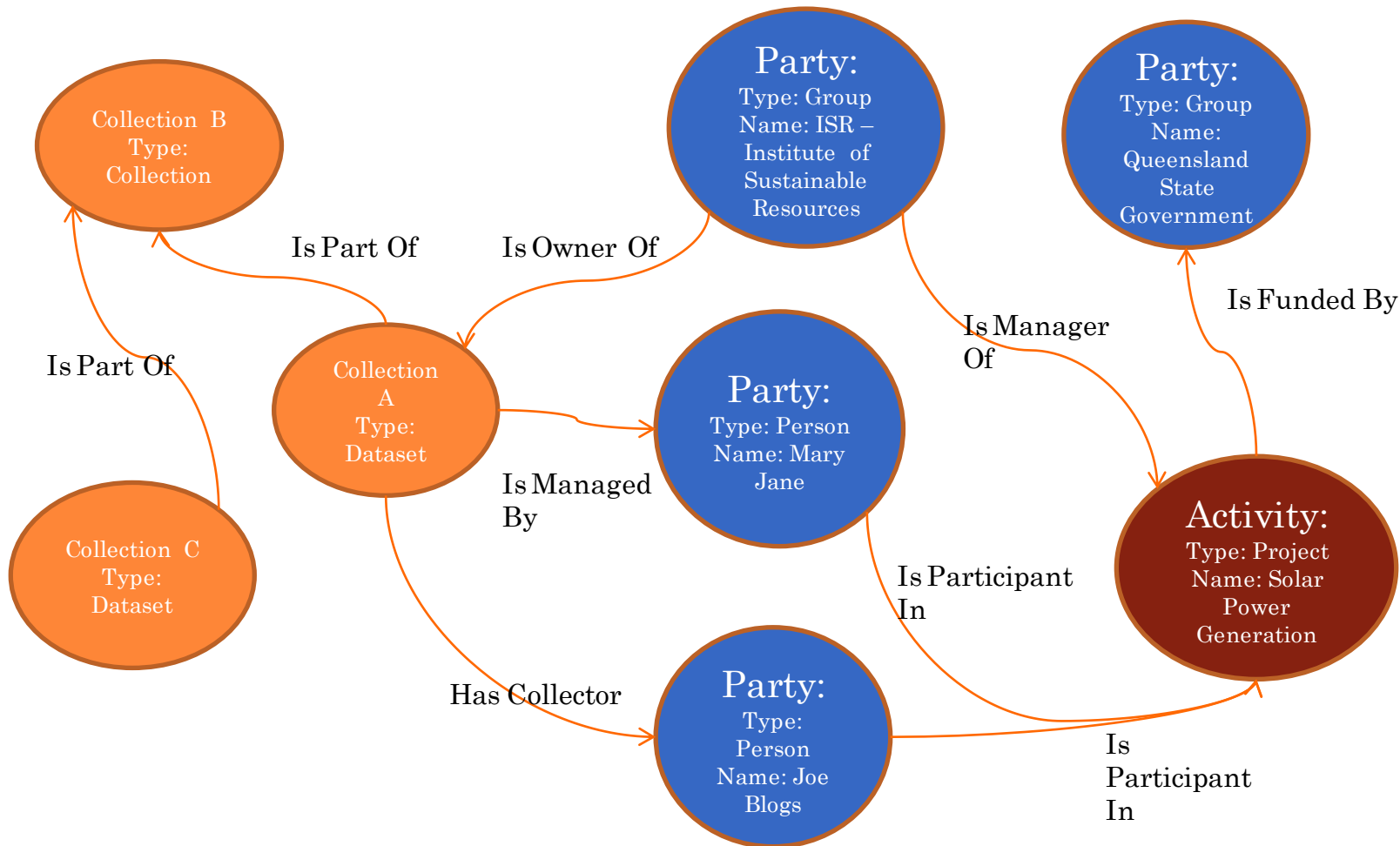
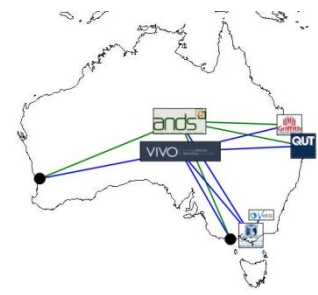
Information about a related registry object.

Related Info

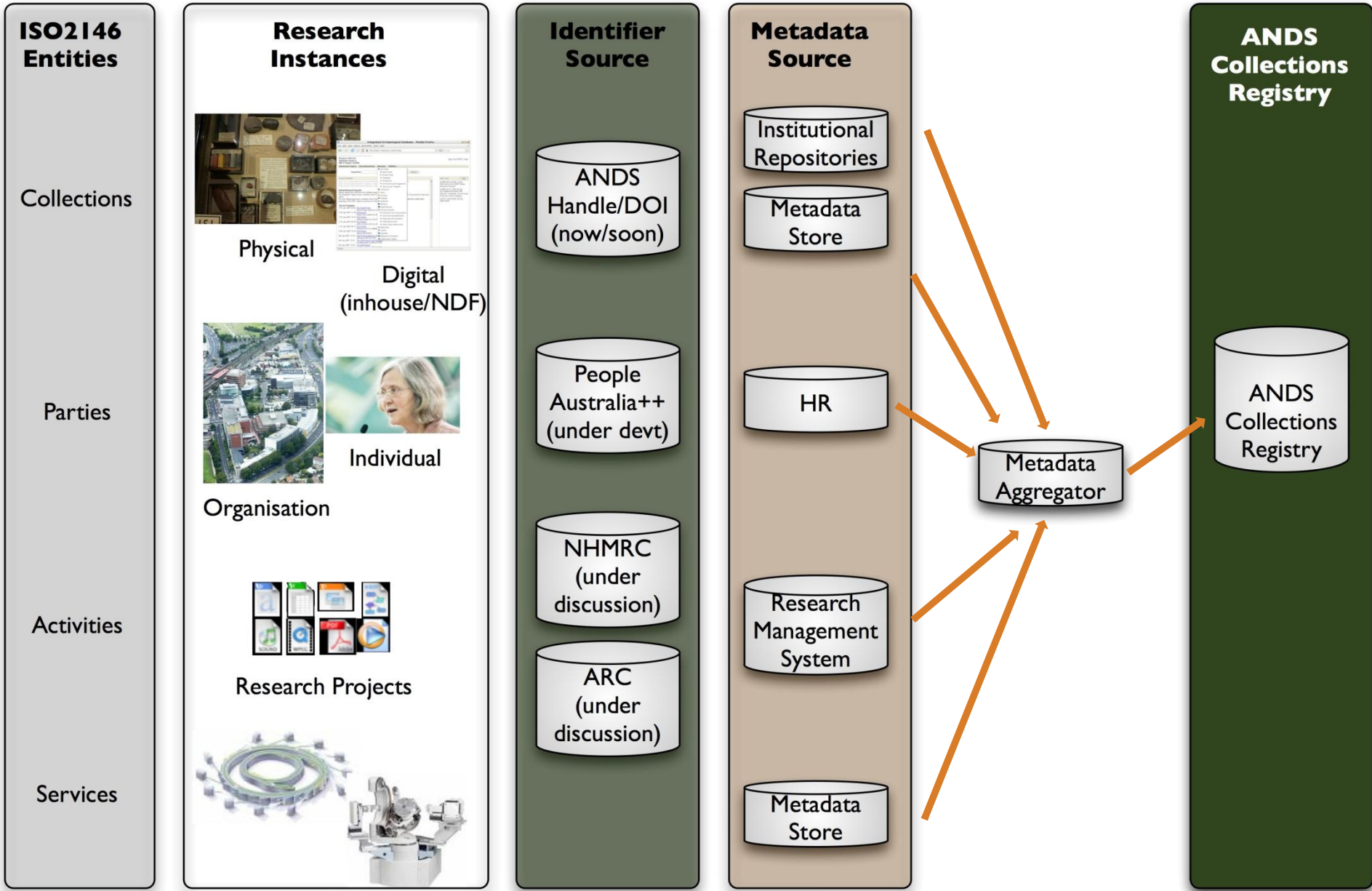
A URI pointing to information related to the collection.



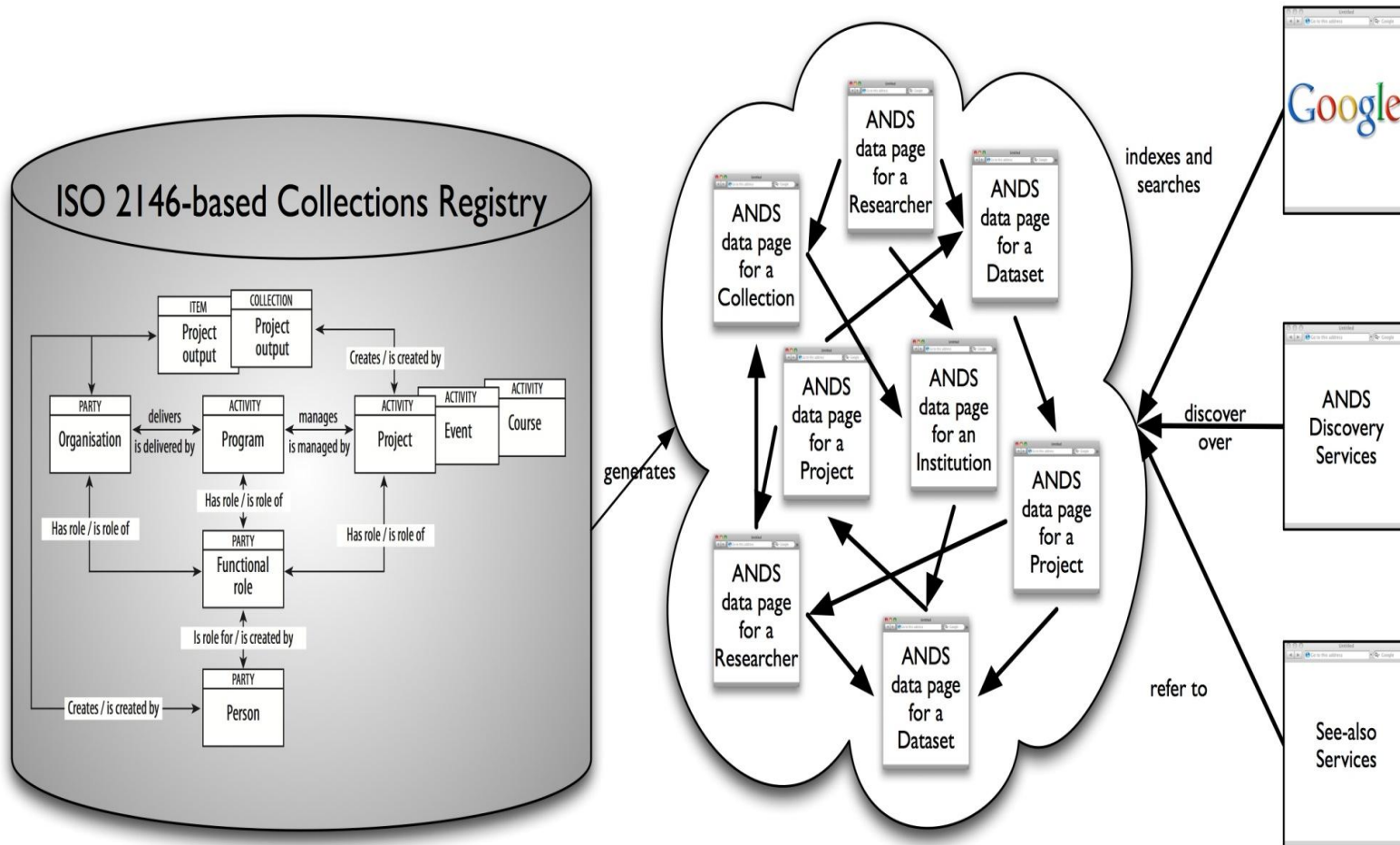
# RIF-CS – LINKED DATA IN DISGUISE







# FROM COLLECTIONS REGISTRY TO DISCOVERY



# RESEARCH DATA AUSTRALIA WEB SITE



## Research Data Australia

[Home](#) | [About](#) | [Disclaimer](#) | [Contact Us](#) | [ANDS Online Services](#)

### Home

#### Records by Classification

- [Collections \(1122\)](#)  
Where a collection is a useful grouping of physical or digital items.
- [Parties \(343\)](#)  
Where a party is a person or organisation that has some relationship to a collection, service, activity, or party.
- [Services \(2\)](#)  
Where a service is a mechanism for gaining some kind of access to or information about a collection (or items within a collection).
- [Activities \(13\)](#)  
Where an activity is an undertaking or process related to the creation, update, or maintenance of a collection.

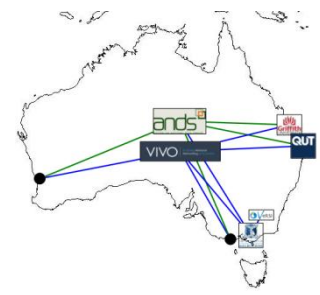
#### Records by Grouping

- [Australian Institute of Marine Science \(455\)](#)
- [iVEC MEST - Western Australian Marine Data and Projects \(898\)](#)
- [Monash University \(10\)](#)
- [Polar Information Commons \(32\)](#)
- [Publish My Data \(51\)](#)
- [Queensland University of Technology \(34\)](#)

#### Search Research Data Australia

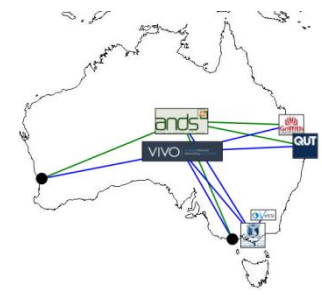
  x

# HOW TO STORE RIF-CS IN VIVO?



- Try to use as much of the existing VIVO ontology and associated ontologies as possible.
- However, need to extend the Core VIVO Ontology
- Admin extensions – new properties
- Vocab extensions – new classes
- Relationship extensions – object properties
- Classifications – new separate ontologies

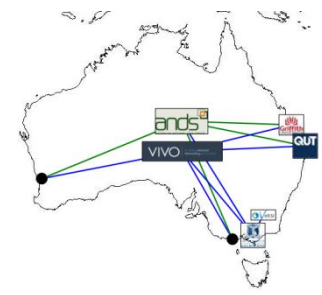
# ANDSHARVEST ONTOLOGY



- Name: ANDSHarvest
- Namespace: <http://www.ands.org.au/ontologies/ns/0.1/VITRO-ANDS.owl#>
- Some new classes:
- OAIHarvest
- Research Data
  - Research Catalog, Research Collection, Research Records Collection, Research Registry, Research Dataset
- Subject area Keyword

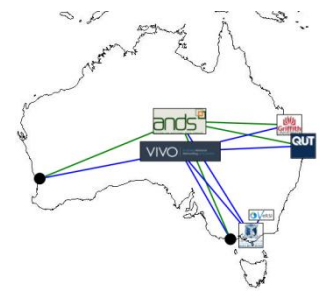
#	class	shortdef	example	group	ontology	display level	update level
1	<a href="#">ANDSHarvest:OAIHarvest</a>	ANDS HARVEST DETAILS		OAIHarvest	ANDSHarvest	editor	editor
2	<a href="#">ANDSHarvest:Research Data</a>	Research Data	Survey results for project X	Information Resource	ANDSHarvest	public	self
	<a href="#">ANDSHarvest:Research Catalog</a>			Information Resource	ANDSHarvest	unspecified	unspecified
	<a href="#">ANDSHarvest:Research Collection</a>			Information Resource	ANDSHarvest	unspecified	unspecified
	<a href="#">ANDSHarvest:Research Records Collection</a>	Research Records Collection	The Brown family Guide to Records	Information Resource	ANDSHarvest	public	public
	<a href="#">ANDSHarvest:Research Registry</a>			Information Resource	ANDSHarvest	unspecified	unspecified
	<a href="#">ANDSHarvest:Research Repository</a>			Information Resource	ANDSHarvest	unspecified	unspecified
	<a href="#">ANDSHarvest:Research Dataset</a>			Information Resource	ANDSHarvest	unspecified	unspecified
3	<a href="#">ANDSHarvest:Subject area Keyword</a>			Subject Area	ANDSHarvest	unspecified	unspecified

# ANDSHARVEST ONTOLOGY



- Many new object properties to map required relationships: (examples)
  - ANDSHarvest:isDescribedBy
  - ANDSHarvest:isManagedBy
  - ANDSHarvest:isOwnedBy
  - ANDSHarvest:isSupportedBy
  - ANDSHarvest:isCollectorOf
  - ANDSHarvest:isPointOfContactFor
  - ANDSHarvest:publishedIn
- Many new data properties: (examples)
  - ANDSHarvest:arc
  - ANDSHarvest:dateResearchCommenced
  - ANDSHarvest:dateResearchCompleted
  - ANDSHarvest:groupDescription
  - ANDSHarvest:locationOfDataManagementPlan
  - ANDSHarvest:nonDigitalDataLocation
  - ANDSHarvest:retentionPeriod

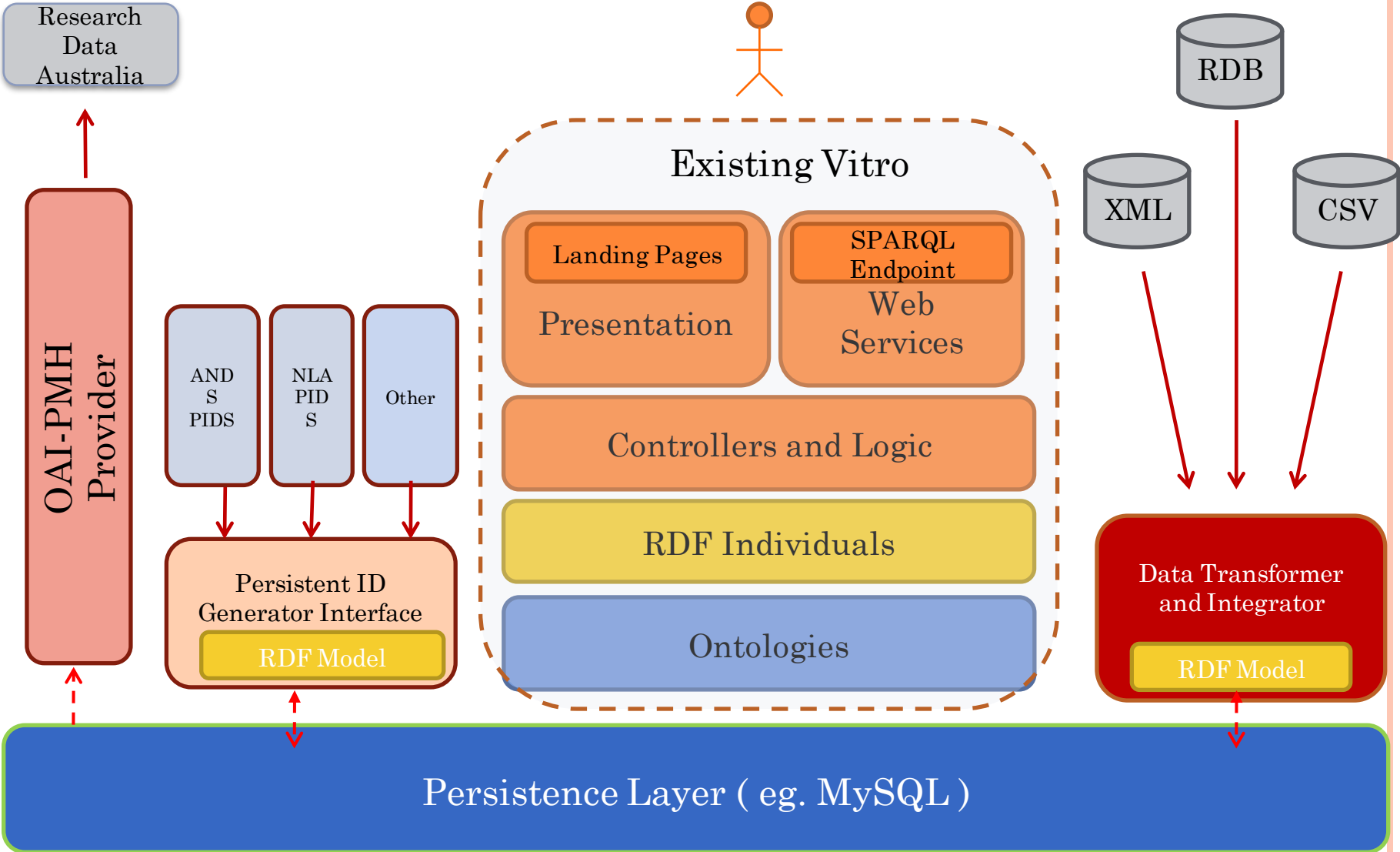
# RESEARCH CLASSIFICATION ONTOLOGIES



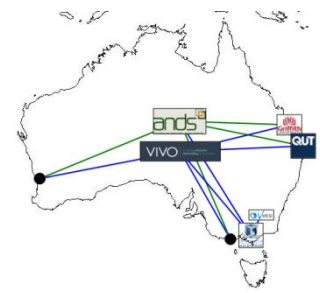
- Maintained by the Australian Bureau of Statistics
- Classifications:
  - Socio-economic Objective classifications (SEO)
  - Fields of Research (FOR)
  - Type of Activity (TOA)
- Hierarchical Classifications using 2, 4 and 6 digit codes
- Example
  - Division (86) Manufacturing
  - Group (8607) Agricultural Chemicals
  - Objective (860702) Chemical Fertilisers
- Classification modelled using:
  - `rdfs:subClassOf`
  - `skos:broader`
  - `skos:narrower`
  - `skos:exactMatch`



# Metadata Exchange Hub

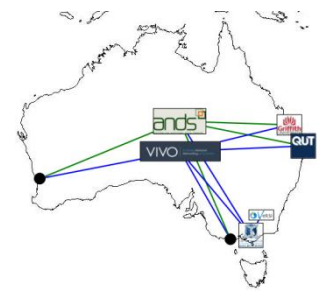


# PERSISTENT IDENTIFIERS



- Every RIF-CS object requires a globally unique identifier – or Persistent Identifier (PID).
- ANDS provides a web-service for minting PIDs based on the Handle System (<http://www.handle.net/>).
- The National Library of Australia is also involved with providing PIDS for people (party) through its People Australia project.
- Large national research bodies such as the Australian Research Council (ARC) and the National Health and Medical Research Council (NHMRC) also have unique IDs for researchers.
- Exactly what PID to use for researchers and other parties is still to be resolved.

# PROVIDING METADATA FOR HARVESTING



- Institutions expose RIF-CS metadata to Research Data Australia via OAI-PMH.
- To provide such metadata using VIVO we:
  - 1) perform a SPARQL Select query on VIVO to extract relevant records.
  - 2) apply a XSLT to transform the previous results into RIF-CS compliant XML.
  - 3) store the RIF-CS XML in a directory monitored by our OAI-PMH Provider software. The software encapsulates the XML within a compliant OAI-PMH feed ready for harvesting.
- The slight complication in this process is using a non-DC metadata schema with OAI-PMH.

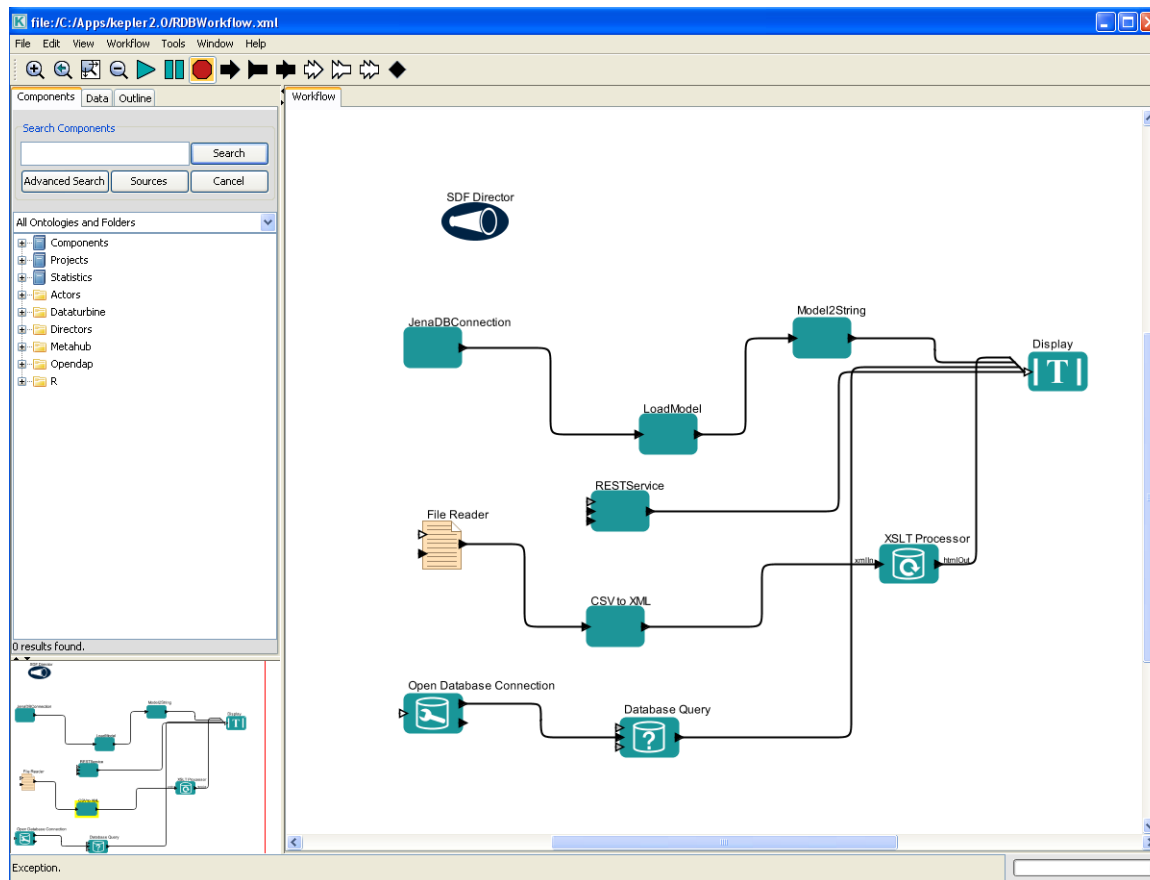
# WORKFLOWS

- Using Kepler 2.0 software for data workflow and transformation.
- Free Java software (BSD) which incorporates GUI and workflow engine with ability to execute workflows via GUI or command-line.
- Workflows can be nested and modularized for re-use with inbuilt mechanisms for packaging and sharing.
- Comes pre-built with over 300 actors and can be extended using Java API and other JVM languages.
- Has a module system that allows the construction of customised distributions for easy deployment.



# WORKFLOWS

- An example test workflow.

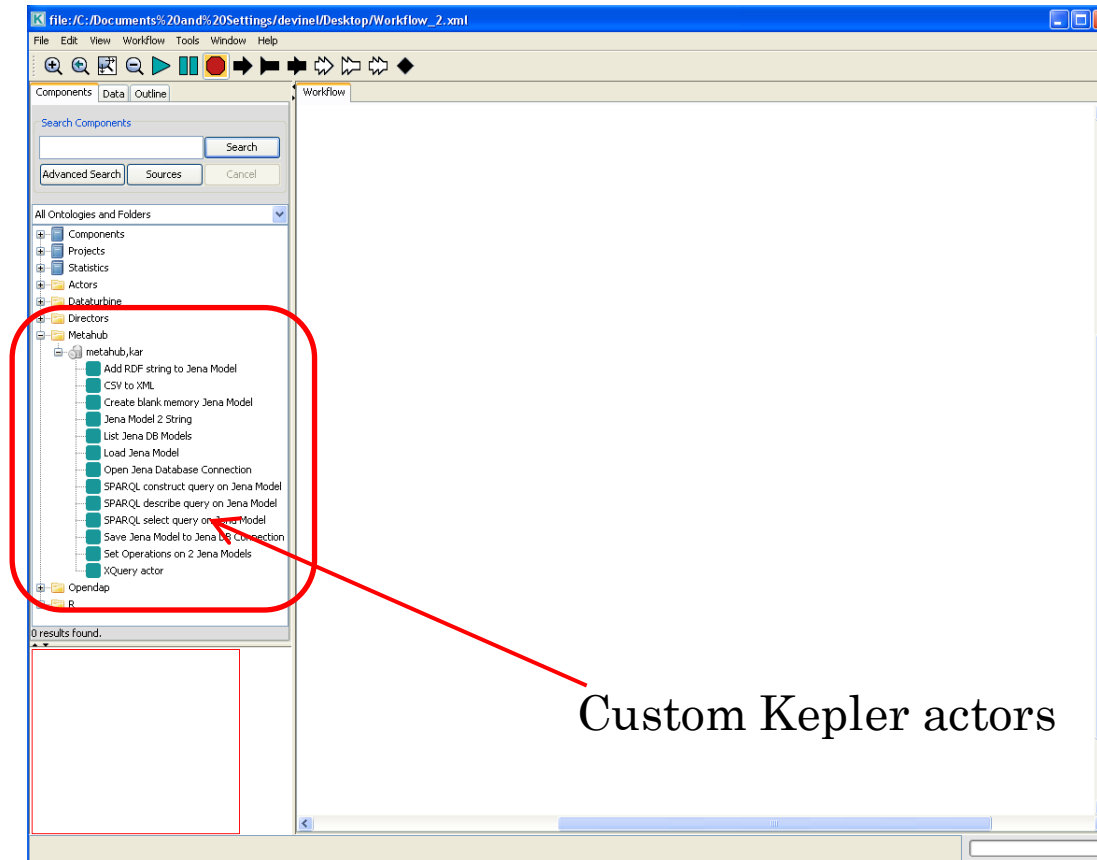


# WORKFLOWS

- Some of the existing actors include such functionality as:
  - file reading/writing and other file operations
  - web service execution
  - RDB connection and querying
  - record and string manipulation
  - mathematical functions
  - Control flow
- For our project we have added actors for:
  - Jena DB connection
  - SPARQL Queries, Select, Construct, Describe
  - RDF Model operations
  - CSV to XML
  - XQuery

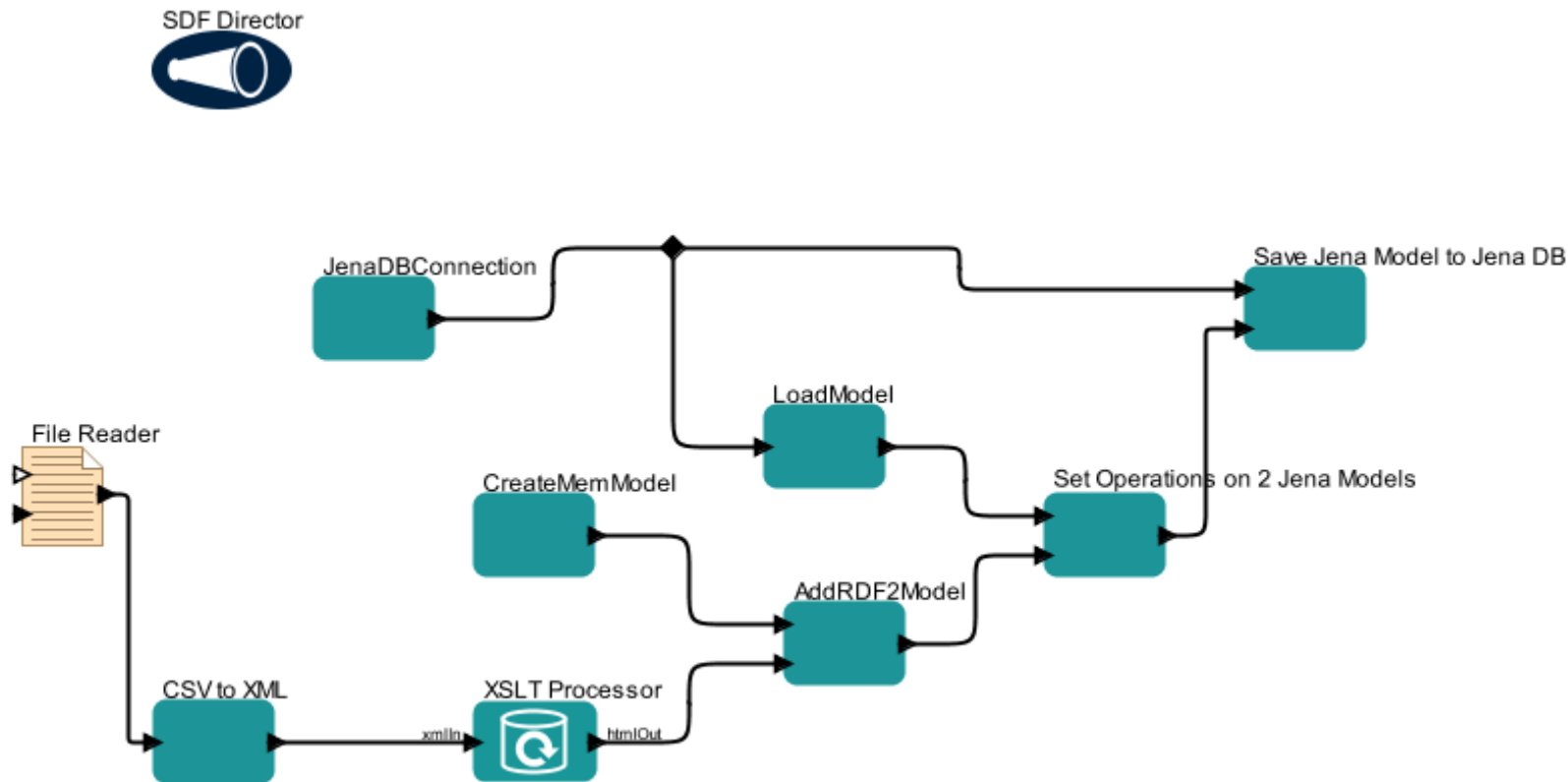
# WORKFLOWS

- Custom Kepler actors for working with VIVO



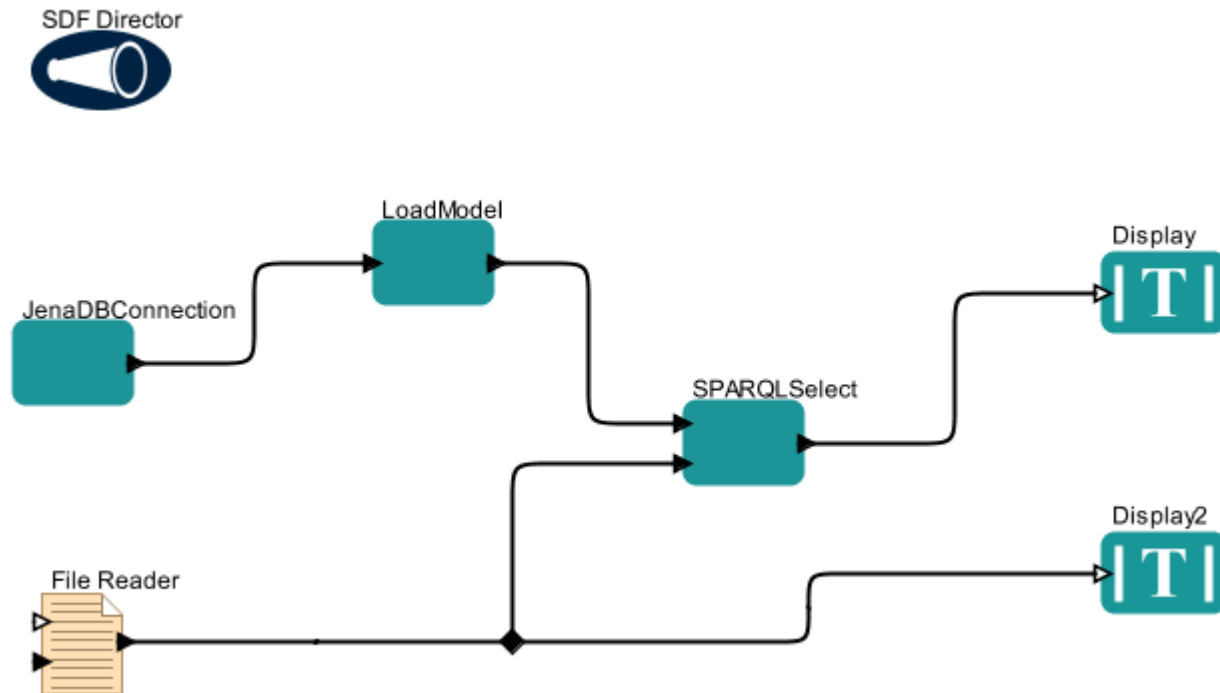
# WORKFLOWS

- Read CSV file, transform to RDF, merge with existing model and save to DB.



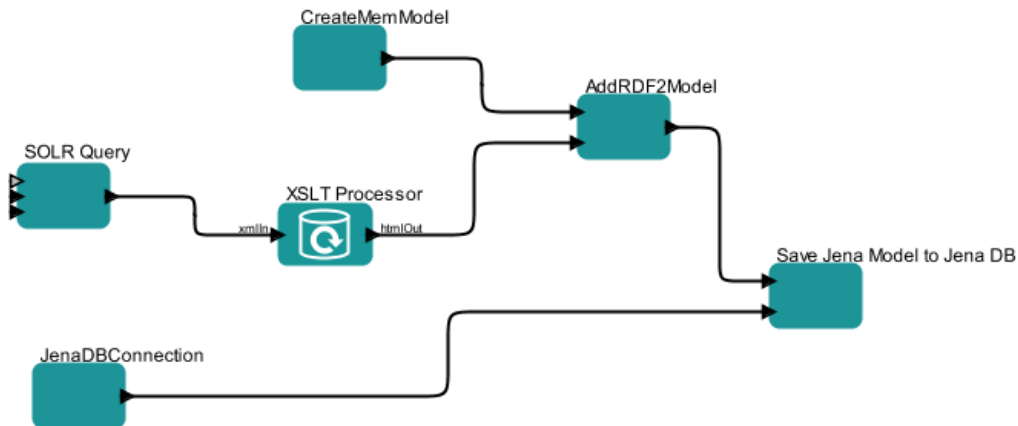
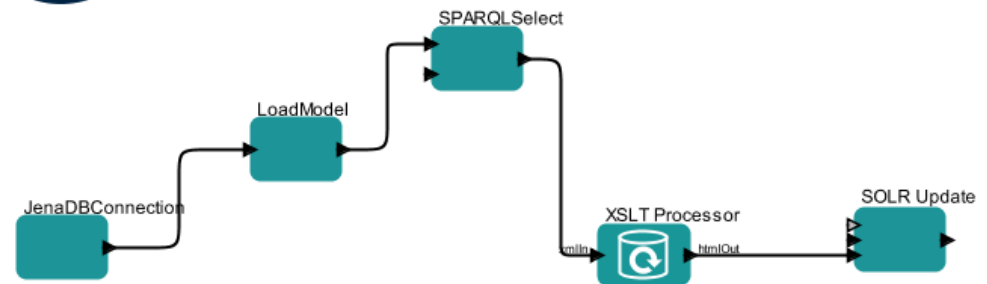


# WORKFLOWS



# WORKFLOWS

- SOLR / Jena



# WORKFLOWS

- Workflows are saved as XML

```
<?xml version="1.0" standalone="no"?>
<!DOCTYPE entity PUBLIC "-//UC Berkeley/DTD McML 1//EN"
    "http://ptolemy.eecs.berkeley.edu/xml/DTD/McML_1.dtd">
<entity name="RDBWorkflow" class="ptolemy.actor.TypedCompositeActor">
  <display name="CSWorkflow"/>
  <property name="_createdBy" class="ptolemy.kernel.attributes.VersionAttribute" value="8.0" />
  </property>
  <property name="_windowProperties" class="ptolemy.actor.gui.WindowPropertiesAttributes" value="" />
  </property>
  <property name="_vergilSize" class="ptolemy.actor.gui.SizeAttribute" value="{890, 753}" />
  </property>
  <property name="_vergilZoomFactor" class="ptolemy.data.expr.ExpertParameter" value="1.0" />
  </property>
  <property name="_vergilCenter" class="ptolemy.data.expr.ExpertParameter" value="{384.0, 3" />
  </property>
  <property name="SDF_Director" class="ptolemy.domains.sdf.kernel.SDFDirector">
    <property name="iterations" class="ptolemy.data.expr.Parameter" value="1" />
    </property>
    <property name="vectorizationFactor" class="ptolemy.data.expr.Parameter" value="1" />
    </property>
    <property name="allowDisconnectedGraphs" class="ptolemy.data.expr.Parameter" value="f" />
    </property>
    <property name="allowRateChanges" class="ptolemy.data.expr.Parameter" value="false" />
    </property>
    <property name="constrainBufferSizes" class="ptolemy.data.expr.Parameter" value="true" />
    </property>
    <property name="period" class="ptolemy.data.expr.Parameter" value="0.0" />
    </property>
    <property name="synchronizeToRealTime" class="ptolemy.data.expr.Parameter" value="fal" />
    </property>
    <property name="timeResolution" class="ptolemy.actor.parameters.SharedParameter" valu" />
    </property>
    <property name="Scheduler" class="ptolemy.domains.sdf.kernel.SDFScheduler">
      <property name="constrainBufferSizes" class="ptolemy.data.expr.Parameter" value="" />
      </property>
    </property>
  </property>
  <property name="KeplerDocumentation" class="ptolemy.vergil.basic.KeplerDocumentationAttribute" />
  <property name="description" class="ptolemy.kernel.util.ConfigurableAttribute"><configure>null</configure>
  <property name="author" class="ptolemy.kernel.util.ConfigurableAttribute"><configure>Steve Ne" />
  <property name="version" class="ptolemy.kernel.util.ConfigurableAttribute"><configure>null</configure>
  <property name="userLevelDocumentation" class="ptolemy.kernel.util.ConfigurableAttribute"><configure>null</configure>
  <property name="prop.allowDisconnectedGraphs" class="ptolemy.kernel.util.ConfigurableAttribute" />
  <property name="prop.allowRateChanges" class="ptolemy.kernel.util.ConfigurableAttribute" />
  <property name="prop.timeResolution" class="ptolemy.kernel.util.ConfigurableAttribute" />
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  <property name="prop.vectorizationFactor" class="ptolemy.kernel.util.ConfigurableAttribute" />
  <property name="prop.synchronizeToRealTime" class="ptolemy.kernel.util.ConfigurableAttribute" />
  <property name="prop.period" class="ptolemy.kernel.util.ConfigurableAttribute" />
  </property>
  <property name="entityId" class="org.kepler.mom.NamedObjId" value="urn:ls" />
  </property>
  <property name="class" class="ptolemy.kernel.util.StringAttribute" value="ptolemy.dom" />
  <property name="id" class="ptolemy.kernel.util.StringAttribute" value="urn:ls:kd" />
  </property>
</entity>
```

- Command line execution:

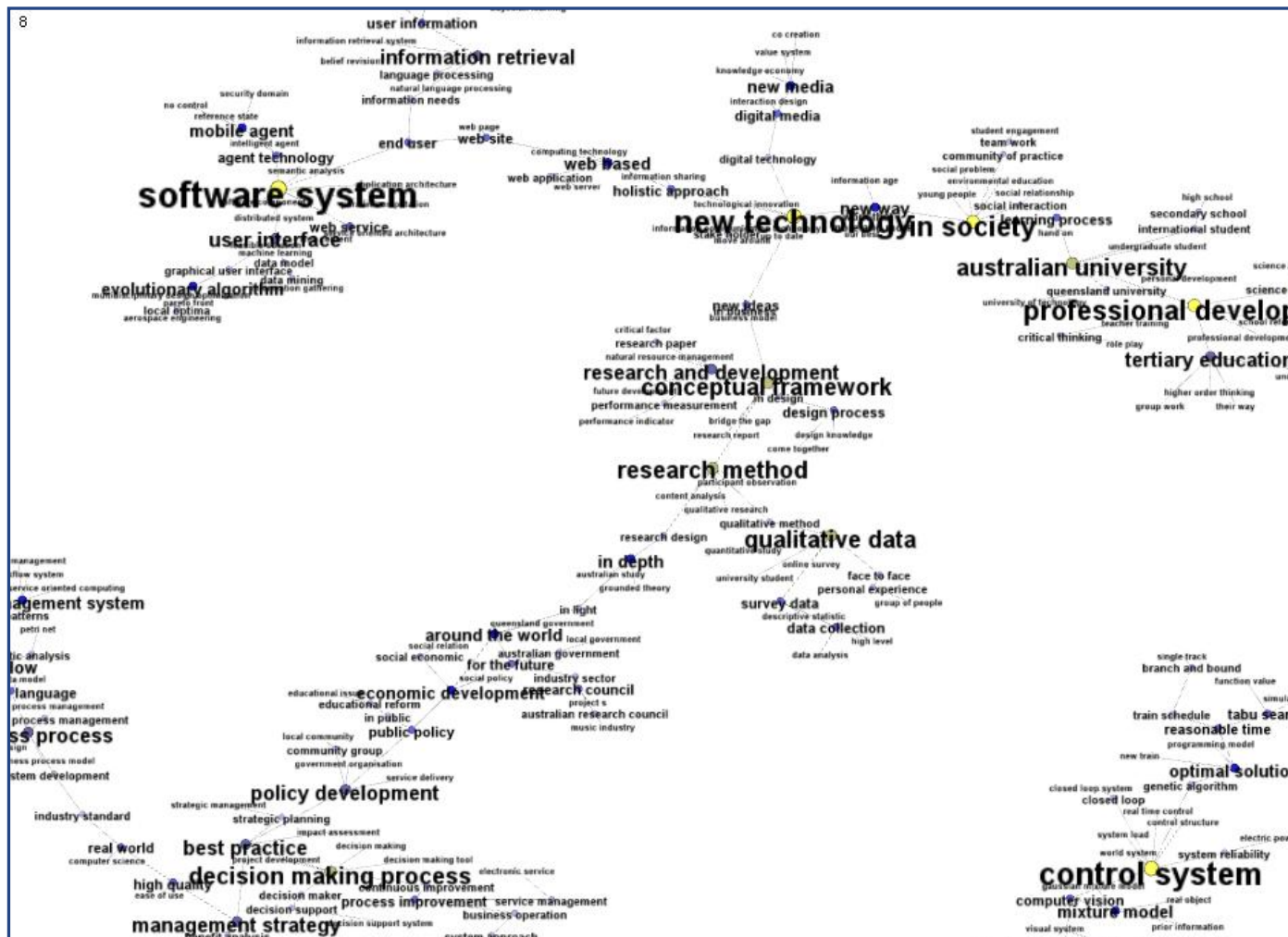
Java -cp ./kepler.jar org.kepler.build.runner.Kepler -runwf -nogui hello.xml

# WORKFLOWS

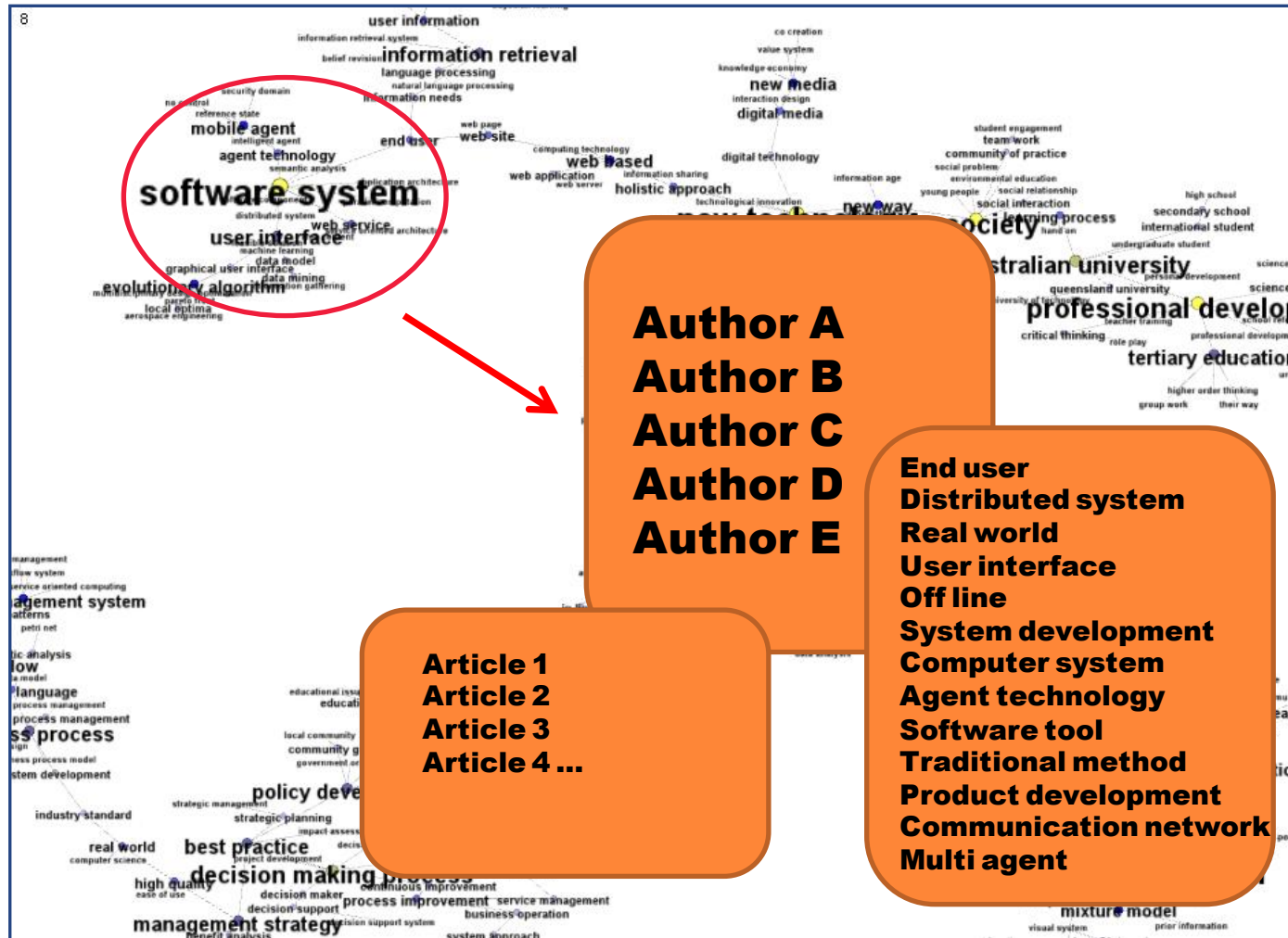
- To Do:
- Actors for easier manipulation of RDF and XML
- More documentation and examples.
- Think about how to combine efforts with the VIVO Harvester.

# MAPPING AND NAVIGATING THE CONCEPTUAL SPACE OF A UNIVERSITY'S RESEARCH OUTPUTS

- Index bibliometric data using Lucene.
- Retrieve Wikipedia section labels from DBPedia. (RDF)
  - Other vocabularies/taxonomies could be used, eg. MeSH
- Clean wiki labels and keep 2-grams and 3-grams (“Concepts”)
  - Higher order n-grams may be used as well.
- Create “semantic representations” of the concepts found within publication abstracts using contextual features within the abstracts.
- Use heuristics to construct networks through the semantic space of the abstracts.

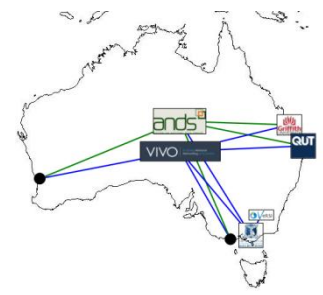


An automatically generated view onto a portion of the conceptual landscape of QUT's ePrints repository.



- Can be used to generate semantic signatures/profiles for researchers.
- Can be used to discover researchers with similar interests.
- Can be used to explore the research landscape via associative links.

# OUTCOMES

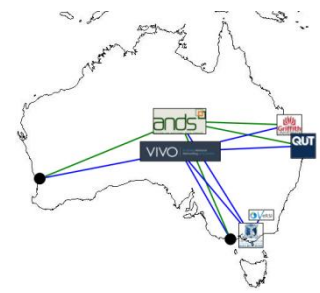


- Griffith's implementation of VIVO for Research Data Australia has created a new, expansive project for an inclusive Griffith Profile system, making research data accessible via one entry point. It will expose the 'linked' nature of relationships between a researcher and their research outputs.





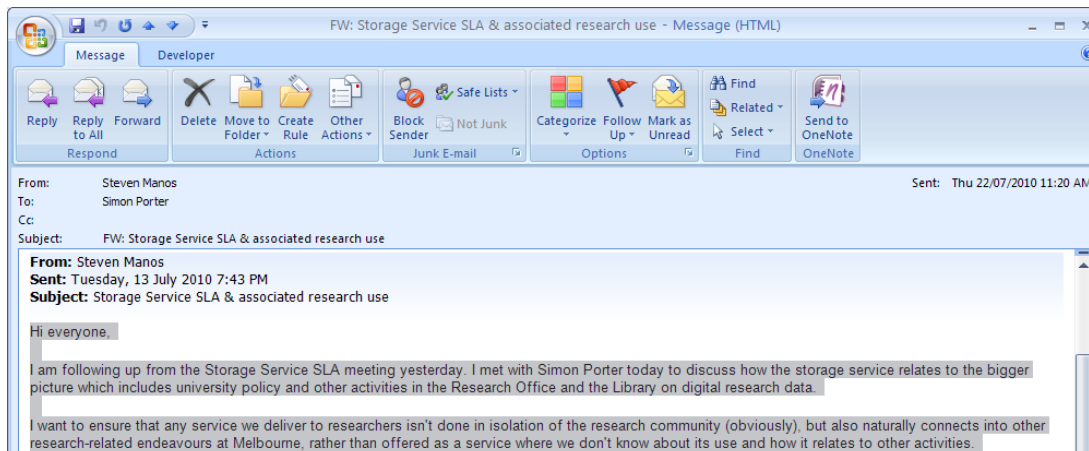
# OUTCOMES CONTINUED



- Most researchers are receptive to having information about them and their research activities published to Research Data Australia and displayed publically via a web semantic discovery solution.
- Participating in the Research Data Commons (aka Research Data Australia) has enabled each university to identify additional registry objects that ISO 2146 & RIF-CS will be able to accommodate for categorising and discoverability purposes (expansion of Service types and Commercial Activities [enterprises] con researchers).



# OUTCOMES: CULTURAL CHANGE



1. **Linking research activities, projects/grants, people, publications and datasets.** Researchers using the central storage service will inevitably doing some data-centric research where the data is directly related to reserch work, publications, etc. Capturing information about the data and research activities/groups using the storage service gives the University (and ITS) some rich information about what's sitting on the storage services, rather than just offering it up as a blank slate.

2. **Data is the new intellectual property of the university.** The University needs to maintain an awareness of of the data that is stored, used and how it used. Different types of data are associated with different retention and destruction policies, and those policies need to be able to be linked not only to research activities, but the resources (e.g. storage) they are using.

3. **ITS needs to capture information about how its resources are being used by the research community.** Ultimately we need information as to how providing research services supports the Melbourne and Parkville research community. If we wish to attract more funding to provide research service from the University (and elsewhere) we need to collect the necessary data to ensure that cases for funding can be made in future.

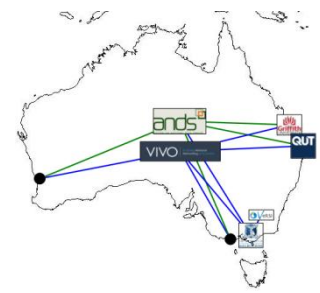
- We mandate that on an annual basis the Storage Authorisation Contact tells us who's using the storage service, what research group(s) are using it, and how much space they're using (a fairly minimal requirement).
- We mandate that on an annual basis the Storage Authorisation Contact **Review** information we provide them on publications, people, projects/grants and activities, and help us clarify the links between say, a publication and a dataset which is stored on the storage service.

By reviewing that data - instead of mandating they provide us with new data - it means we can (1) verify the publications, services, people etc. that are stored centrally already and (2) clarify the links between those services, datasets, people, etc. This process is nothing new, as to a large extent it is already being done through the Research Data Registry project. It is just a case of ensuring that we can appropriate link the storage service and the research data registry activities.

Doing this will ensure that we build services into the research fabric of the university, rather than just offering it as a disconnected service.

Any thoughts & response on this would be appreciated. I'll work with Rob to make sure we build this into the SLA.

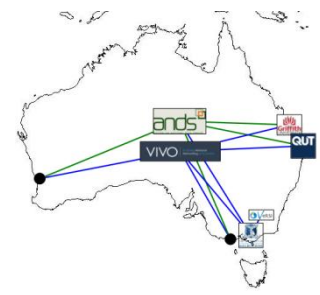
# CHALLENGES



- Early adopters of the technology – Little knowledge about VIVO in Australasia when our projects began.
- In kind contributions, specifically project support, exceeded our estimations for a comprehensive implementation that delivered on all requirements (ontology expansion for RIF-CS, landing pages, OAI Cat implementation with successful harvest tests from Research Data Australia)
- Sustainability after project / knowledge transfer – Identifying reliable service support for VIVO after project closure. Possible solutions include outsourcing to eResearch services & solutions (VeRSI, Intersect).



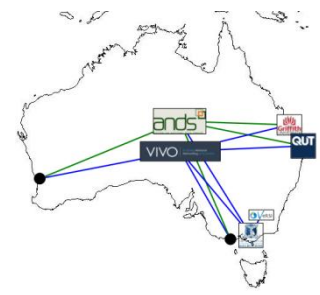
# CHALLENGES CONTINUED



- IP issues of research data – Who owns the data?  
The University in most cases, however, there are a few exceptions to the rule.
- Griffith Intellectual Property Policy:
  - The intellectual property of which the University claims ownership under sections 2.1 and 2.2 of this IP Policy includes (without limitation) intellectual property in relation to:
    - (a) patentable and non-patentable inventions, together with field and laboratory notebooks relating to such inventions;
    - (b) registered and unregistered designs, plant varieties and topographies;
    - (c) databases, computer software, firmware, courseware, and related material;
    - (d) works generated by and/or with computer equipment or software, except where specifically exempted under other provisions in this IP Policy;
    - (e) University-commissioned works;
    - (f) Confidential information associated with each and every item listed in this section 3.0;
    - (g) Copyright in works and materials except for those specifically excluded by this IP Policy;
    - (h) Educational materials except for those specifically excluded by this IP Policy.
  -



# CHALLENGES CONTINUED



## ○ DATA Related:

- Privacy issues – Data that needs to be kept private and confidential due to the nature of the research vs. data that can be sanitised if permissible.
- Data management practices by researchers is rudimentary. Getting access to the metadata/data is a challenge. Researchers are storing data in a variety of solutions, and a number of them are unreliable.
- Data Storage – Lack of available funding for data storage has caused problems for Universities. Researchers are not allocating enough funding for storage in their grant applications.



# CONCLUSION

- Questions?

