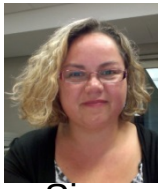
From Library to Research Hub

Connecting an Entire University Research Enterprise

Linda O'Brien
Pro Vice Chancellor (Information Services)



Natasha Simons
Senior Project Manager (Information Services)

15th Fiesole Collection Development Retreat
Singapore, August 12-14, 2013

Griffith University
Brisbane, Queensland, AUSTRALIA

The University
a community of scholars

A place *whither students come from every quarter for every kind of knowledge...a place for the communication and circulation of thought, by means of personal intercourse…where inquiry is pushed forward...discoveries verified and perfected...error exposed, by the collision of mind with mind, and knowledge with knowledge*

John Henry Newman, The idea of a university. 1852

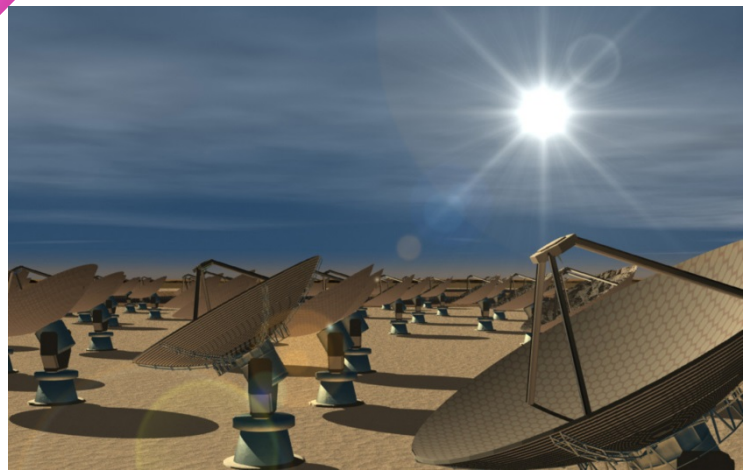
The Library

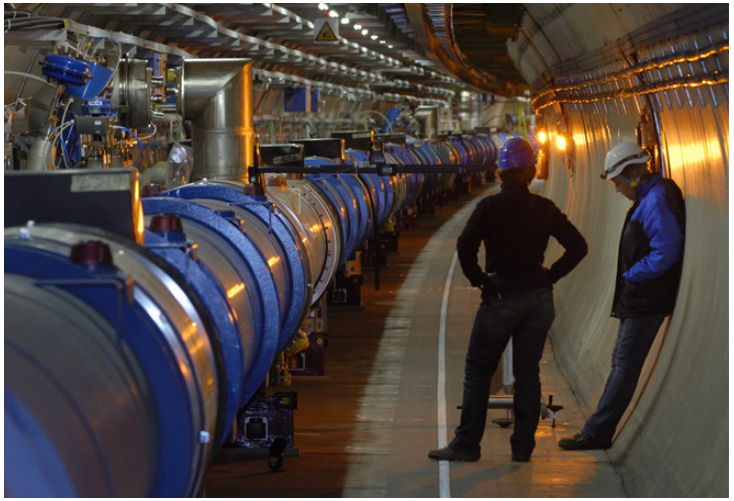
The libraries and museums of the nation hold, and provide access to, the archives and collections that tell us about what we are and where we have come from. They are the traditional repositories of human wisdom and knowledge.

Librarians are both the guardians of the record and key figures among the keepers of the gates of knowledge.

Professor Peter Doherty; The 2004 Keith Murdoch Oration Knowledge in the information age. SLV

A changing knowledge environment





- Rapid technological change
- Global competition and collaboration
- Significant increase in digital information and research outputs much more than publications
- Research funding bodies seeking better return on investments
- Shift to better manage ever-increasing volumes of research data and to view data as a first class output of research.

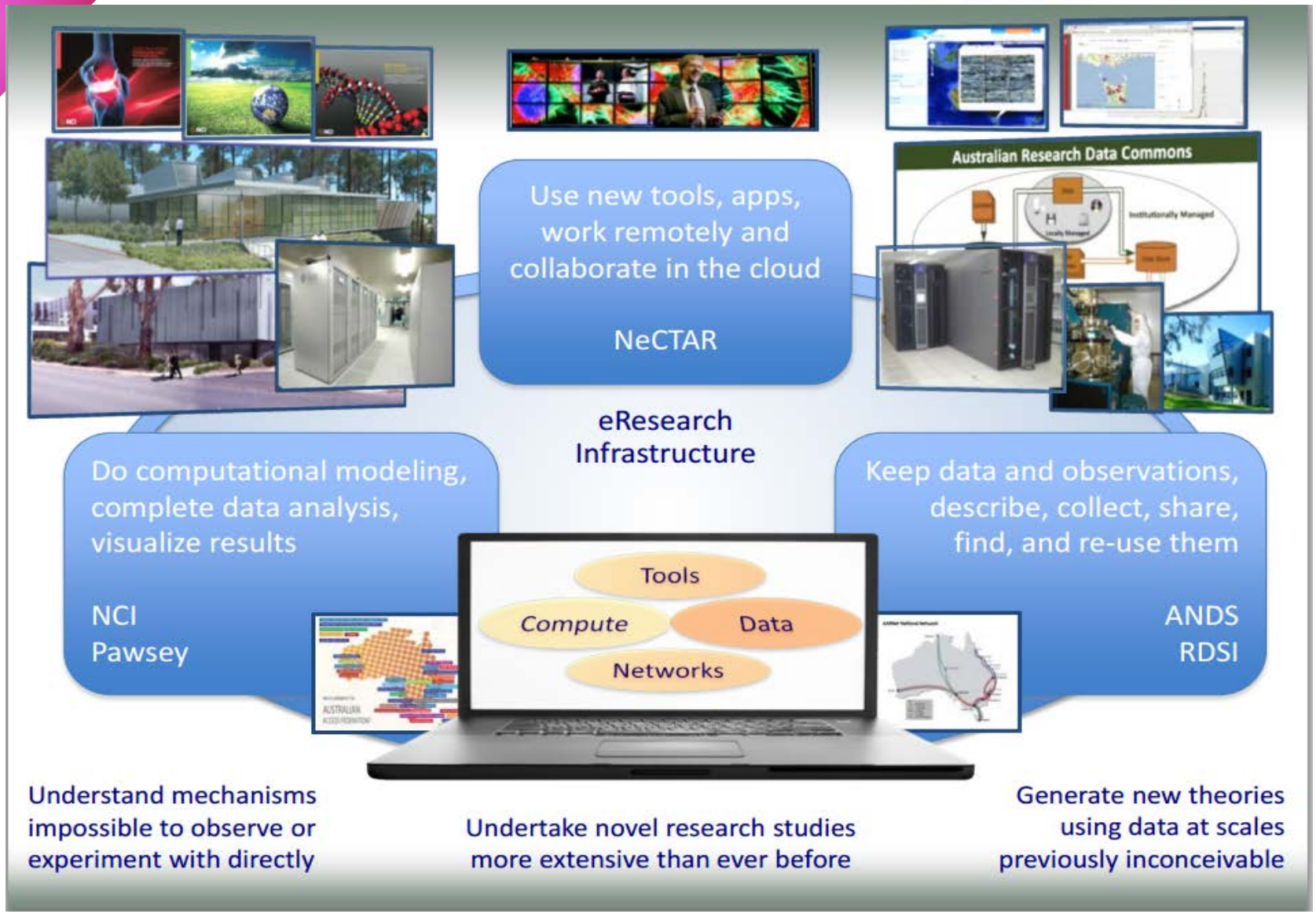
Image credit: http://theconversation.com/australias-bid-for-the-square-kilometre-array-an-insiders-perspective-4891
Image credit: http://www.globalresearch.ca/the-bilderberg-plan-for-2009-remaking-the-global-political-economy/13738
Image credit: http://www.wired.com/wiredscience/2008/09/the-bosons-that/

The Library

The role of libraries… will shift from primarily acquiring published scholarship to a broader role of managing scholarship in collaboration with the researchers that develop and draw upon it.

Clifford Lynch in Libraries and changing research practices: a report of the ARL/CNI Forum on E-research and cyberinfrastructure
http://www.cni.org/wp-content/uploads/2010/11/arl-br-237.pdf

The Australian Research Context



Rhys Francis, Australian eResearch Infrastructure: advancing discovery in an information rich world
http://eresearchau.files.wordpress.com/2012/11/03_rhys_francis.pdf

Australian National Data Service

Our Vision: More Australian researchers reusing research data more often

ANDS is enabling the transformation of:

Data that are:	to	Structured Collections that are:
Unmanaged	→	Managed
Disconnected	→	Connected
Invisible	→	Findable
Single-use	→	Reusable

More>>

Australian Research Data Commons

ANDS is building the Australian Research Data Commons: a cohesive collection of research resources from all research institutions, to make better use of Australia's research data outputs.

Research Data Australia

Research Data Australia, ANDS' flagship service, provides a comprehensive window into the Australian Research Data Commons. It is an Internet-based discovery service designed to provide rich connections between data, projects, researchers and institutions, and promote visibility of Australian research data collections in search engines.

Search for research data on researchdata.ands.org.au

http://www.ands.org.au/index.html

- Griffith's vision is to be one of the most influential universities in Australia and the Asia-Pacific region.
- 43 000 students and > 20% international
- 300+ degrees and 2500+ researchers
- 5 main campuses + online programs
- In top 5% of universities worldwide
- In Times HE top 100 universities under 50 years old (2013)

Griffith University Research Objectives 2013-2017

1. Consolidate world-class research strength through our selected Areas of Strategic Investment

2. Demonstrate research of international standing in all our discipline areas as recognised by ERA (Excellence in Research for Australia) and other international ranking metrics

3. Maintain a culture of research quality and performance that is well supported by infrastructure (physical and electronic) and resources (financial and human)

4. Maintain our core commitments as a university to innovation, bringing disciplines together, and undertaking socially relevant research which provides demonstrable community benefit.

Information Services

Information Services enables the creation, synthesis and dissemination of knowledge within a global information environment. Our services are interwoven into all aspects of the University's business. We achieve this by understanding the needs of the University community, collaborating with our colleagues across the University and beyond, and providing leadership in our areas of expertise. Our success is founded on a strong service ethic and a culture that values innovation and diversity, strengthened through our integrated service model.

Research Hub

Search

Log In

Connect with Griffith Researchers

Know more. Do more.

Quantum computing expert is Young Tall Poppy

The revolutionary solutions offered by quantum computing are under the spotlight as Griffith's Dr Erik ... read more

Find a

Researcher | Keyword

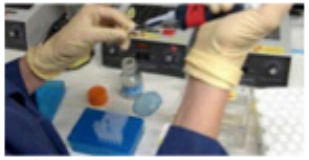
Name

Search

Welcome to Griffith University's Research Hub, a rich and informative guide to the University's expertise in a comprehensive array of academic fields.

Find An Expert

Research Groups



Current Projects

Research Degrees

Find A Supervisor

Apply Now

The Excellence in Research for Australia (ERA) 2012 results (based on the 2005-2010 period) profile Griffith as a comprehensive, research-active university with approximately 88% of eligible researchers associated with broad (two-digit) fields of research assessed at world standard or better.

Associate Professor

Rodney Stewart

Griffith School of Engineering

GCHigherEd Dr Phil BEng

r.stewart@griffith.edu.au

+61 7 5552 8778

G09 1.28

GOLD COAST CAMPUS

Parklands Drive Southport QLD

Overview | Publications | Projects | Collections | Supervision | Background | Links

Member Of Research Center(s)

Centre for Infrastructure Engineering and Management

Overview

Dr Stewart has active research interests in the field of engineering, construction, environmental and project management. Specifically his research covers topics such as innovation in construction (project information management systems, building information models, IT project life cycle mana (... more)

Research Keywords

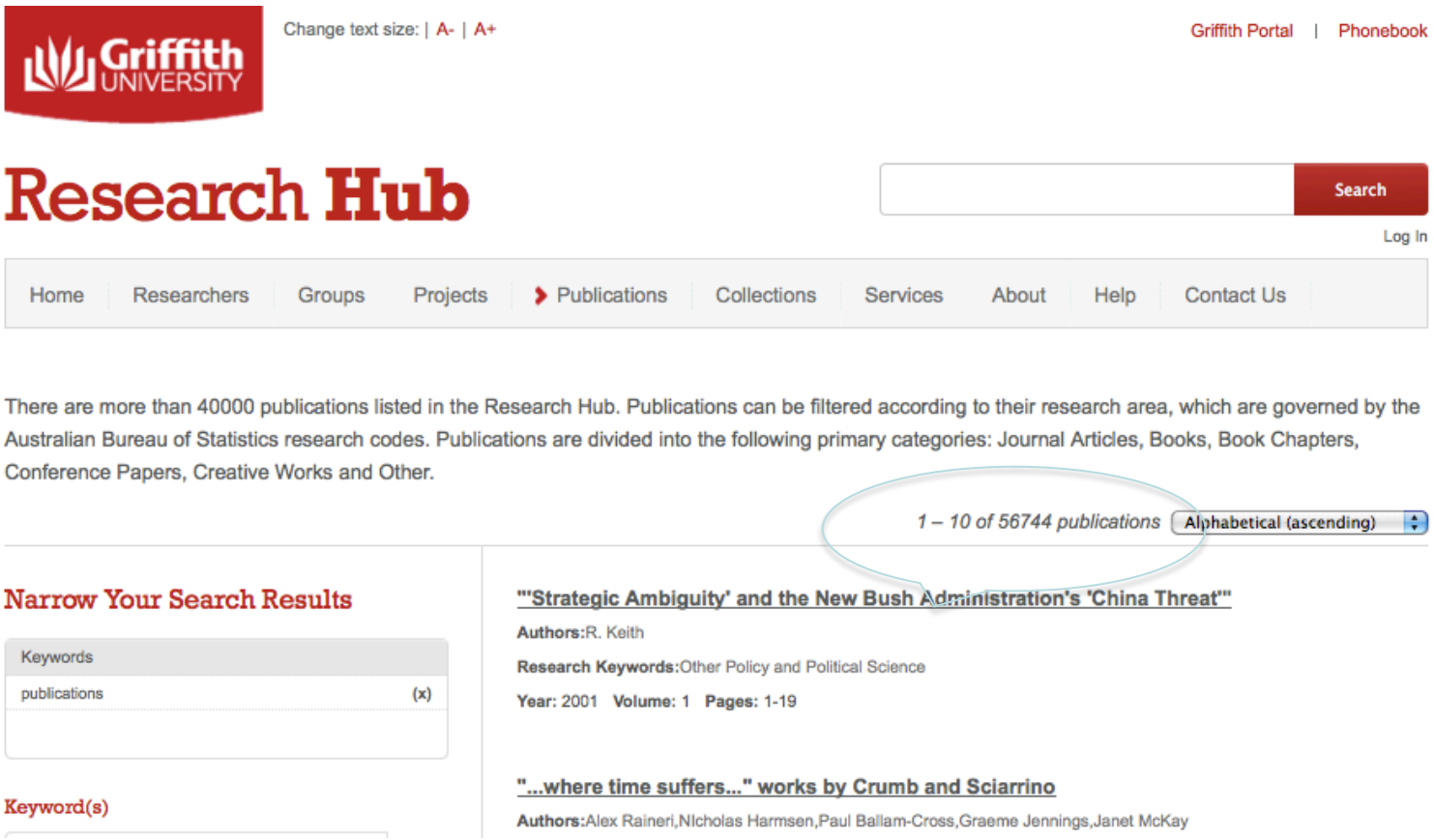
Construction Management And Economics

115 Publications within the last 10 years

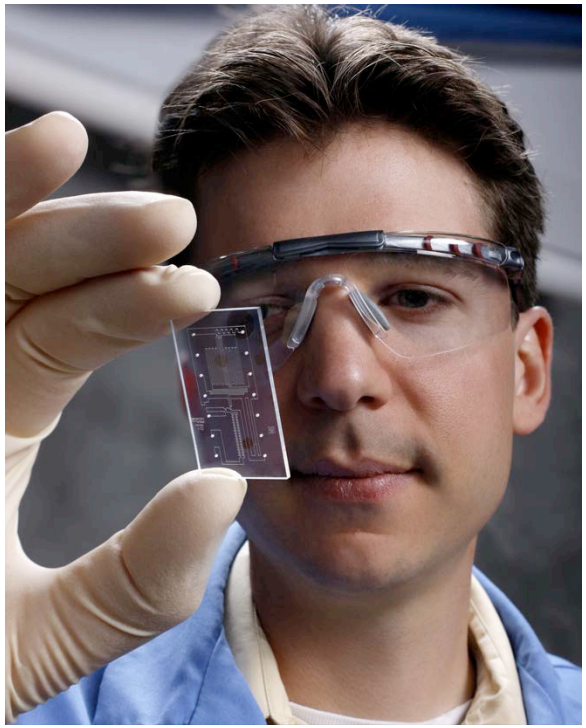
Apply For A Research Degree Today.

The Hub contains:

- ✓ 1065 researcher profile pages
- ✓ 65 groups
- ✓ 5778 projects
- ✓ 56, 744 publications
- ✓ 58 research data collections
- ✓ 12 services



What is the Research Hub audience?



People using the Hub include:

- ✓ HDRs looking for supervisors.
- ✓ Researchers looking for sources of information and potential collaborators.
- ✓ Journalists looking for expert sources of information.
- ✓ Industry looking for consultancy expertise.

These are just a few of the audience segments that have a critical need for a single, comprehensive view of the university's research output.

Research Hub statistics

1 July 2012 to 30 June 2013 (12 months):

- ✓ 267, 000 page views.
- ✓ 62, 211 site visits.
- ✓ 4.3 pages viewed per visit.
- ✓ 45, 500 unique visitors. Of the visitors:

  83% of visits came from outside the Griffith University network.

  40% from countries other than Australia.
- ✓ 300 researchers logged in to the Hub update their profile pages.
- ✓ 186 requests received via the ‘contact us’ form on the Hub website.

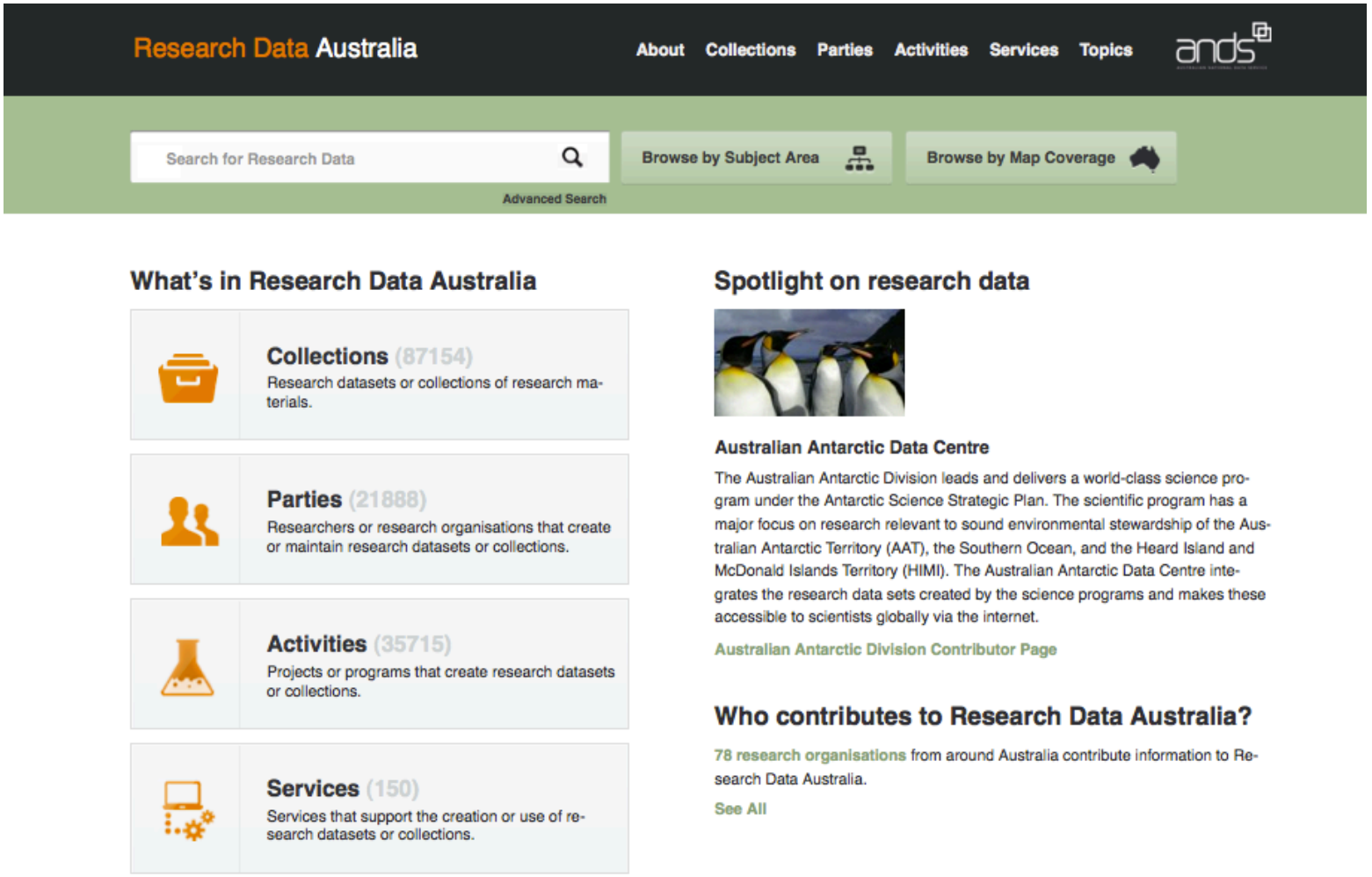
Research Hub awards

- VALA Award 2012
- Commendation of Merit in the Stanford Prize for Innovation in Research Libraries 2013

"Griffith University has no traditional library as such, and so they are in a position to concentrate on innovation. Their research hub project is a visionary integration of the entire research output of the university, in all formats, made discoverable and accessible for the whole world. Every kind of research institution will move to doing something like this very soon: their model is inspiring".
– Ann Okerson, Senior Advisor on Electronic Strategies, Center for Research Libraries

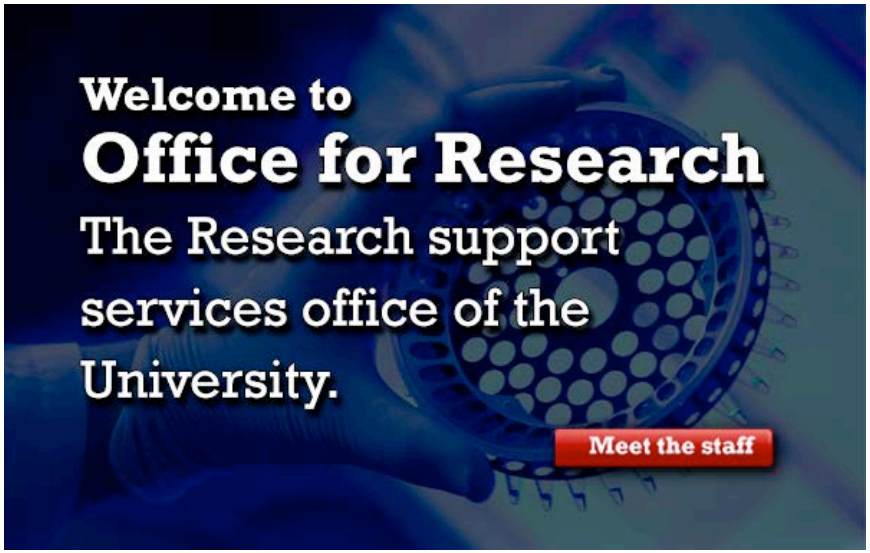
[from judges comments, Stanford Prize for Innovation in Research Libraries]

Who developed the Research Hub?

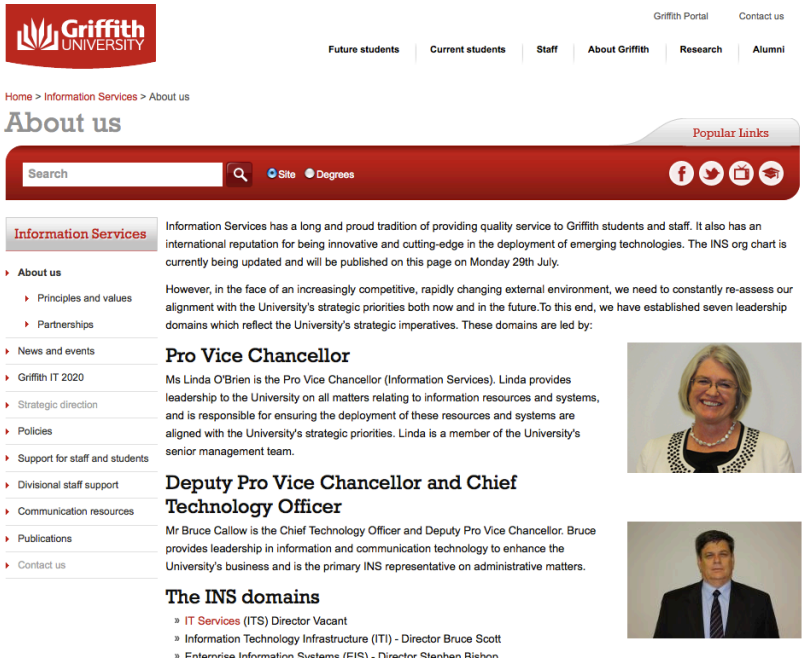


The ANDS Research Data Australia portal - http://researchdata.ands.org.au/

Who developed the Research Hub?



Further funding provided through internal Griffith grant



Griffith University partnership between:

- ✓ Office for Research (OR) – business owner
- ✓ Division of Information Services (INS) – service provider

Who developed the Research Hub?

Recipe for a successful partnership:

- ✓ A demonstrator model.
- ✓ Extending on initial funding from ANDS.
- ✓ A shared vision.
- ✓ A highly motivated, talented technical team.
- ✓ Flexible thinking.
- ✓ Taking a leadership role.
- ✓ A spirit of innovation and experimentation.

How does the Research Hub work?

Information silos make it hard for researchers to find what they need

Griffith Research Online publications repository

Griffith Research Data repository

Griffith theses repository

Griffith HR database

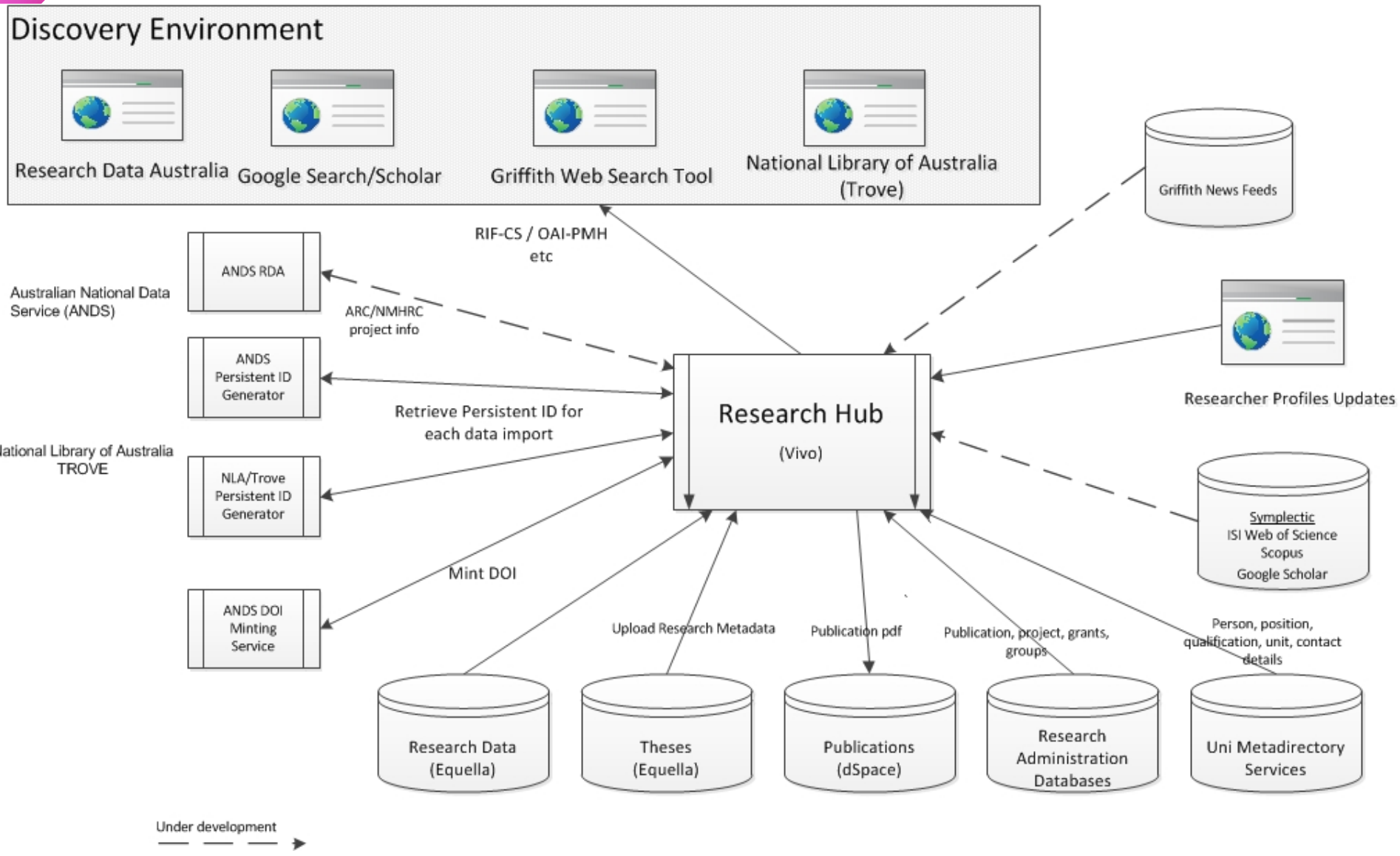
Research Administration Database

Media Experts

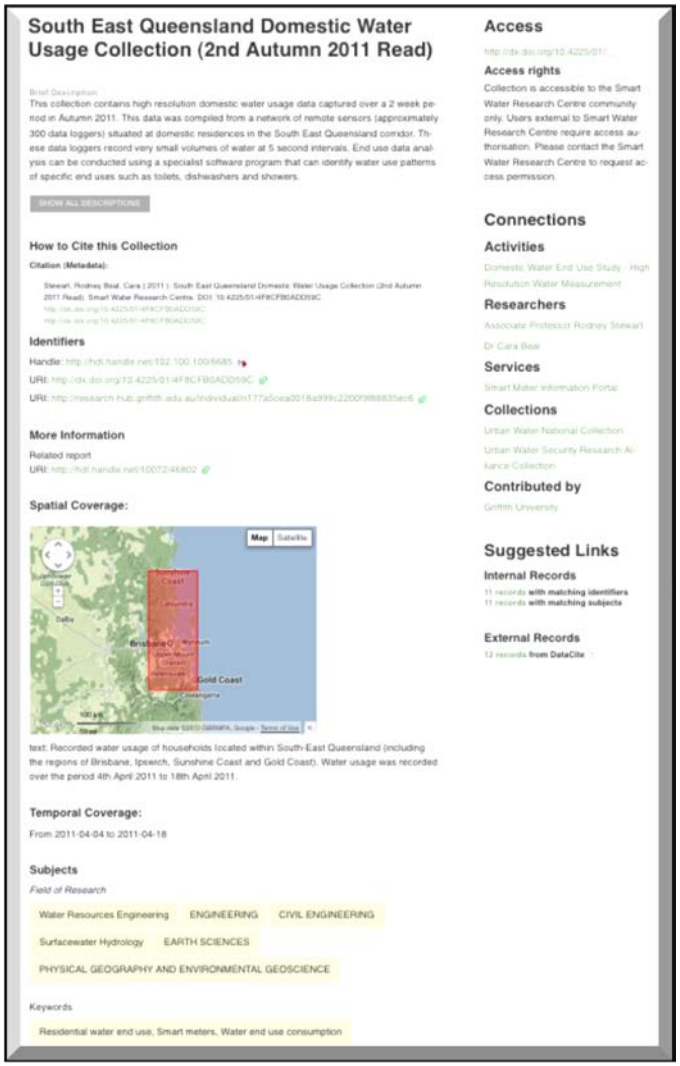
Research Experts

Staff profile pages

How does the Research Hub work?



How does the Research Hub work?



South East Queensland Domestic Water Usage Collection (2nd Autumn 2011 Read)

Brief Description

This collection contains high resolution domestic water usage data captured over a 2 week period in Autumn 2011. This data was compiled from a network of remote sensors (approximately 300 data loggers) situated at domestic residences in the South East Queensland corridor. These data loggers record very small volumes of water at 5 second intervals. End use data analysis can be conducted using a specialist software program that can identify water use patterns of specific end uses such as toilets, dishwashers and showers.

SHOW ALL DESCRIPTIONS

How to Cite this Collection

Citation (Metadata):

Stewart, Rodney Beal, Cara (2011): South East Queensland Domestic Water Usage Collection (2nd Autumn 2011 Read). Smart Water Research Centre. DOI: 10.4225/01/4F8CFB0ADD59C

Identifiers

Handle: http://hdl.handle.net/102.100.100/6685

URI: http://dx.doi.org/10.4225/01/4F8CFB0ADD59C

URI: http://research-hub.griffith.edu.au/individual/n177a5ceaa3018a999c2200f3f88835ec6

More Information

Related report

URI: http://hdl.handle.net/10072/46802

Spatial Coverage:

text: Recorded water usage of households located within South-East Queensland (including the regions of Brisbane, Ipswich, Sunshine Coast and Gold Coast). Water usage was recorded over the period 4th April 2011 to 18th April 2011.

Temporal Coverage:

From 2011-04-04 to 2011-04-18

Subjects

Field of Research

Water Resources Engineering | ENGINEERING | CIVIL ENGINEERING

Surfacewater Hydrology | EARTH SCIENCES

PHYSICAL GEOGRAPHY AND ENVIRONMENTAL GEOSCIENCE

Keywords

Residential water end use, Smart meters, Water end use consumption

Access

Access rights

Collection is accessible to the Smart Water Research Centre community only. Users external to Smart Water Research Centre require access authorisation. Please contact the Smart Water Research Centre to request access permission.

Connections

Activities

Researchers

Associate Professor Rodney Stewart

Dr Cara Beal

Services

Smart Water Information Portal

Collections

Urban Water National Collection

Urban Water Security Research Alliance Collection

Contributed by

Griffith University

Suggested Links

Internal Records

External Records

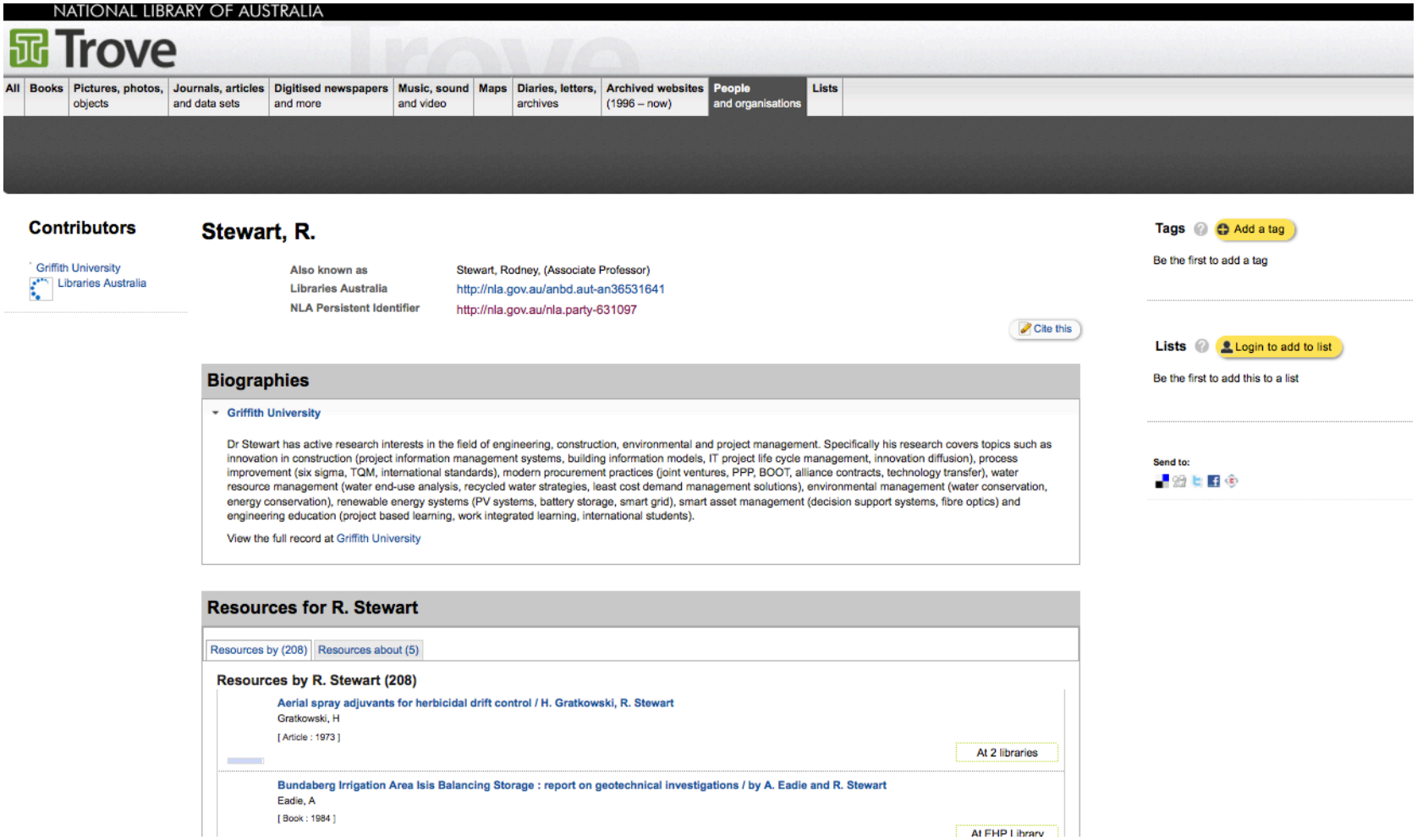
- Research data collection records are harvested from the Hub into Research Data Australia.
- Enhanced ‘Gold Standard’ metadata for data collections is provided in RIF-CS.

How to Cite this Collection

Citation (Metadata):

Stewart, Rodney Beal, Cara (2011): South East Queensland Domestic Water Usage Collection (2nd Autumn 2011 Read). Smart Water Research Centre. DOI: 10.4225/01/4F8CFB0ADD59C.
http://dx.doi.org/10.4225/01/4F8CFB0ADD59C

How does the Research Hub work?



Party records are harvested from the Hub into the National Library of Australia's Trove service.

How does the Research Hub work?

VIVO 2013

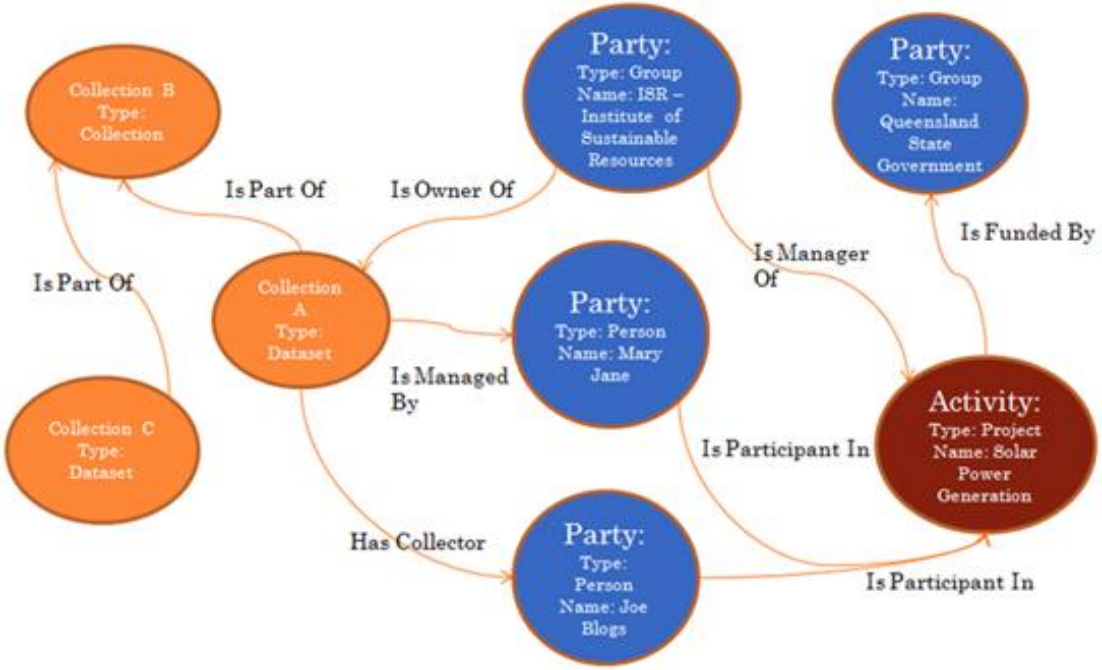
VIVO is an open source semantic web application originally developed in 2004 at Cornell University. It enables the discovery of research and scholarship across disciplines at that institution and beyond.

RDF Triple Store

Example: This researcher (name) – is owner of – this research data collection

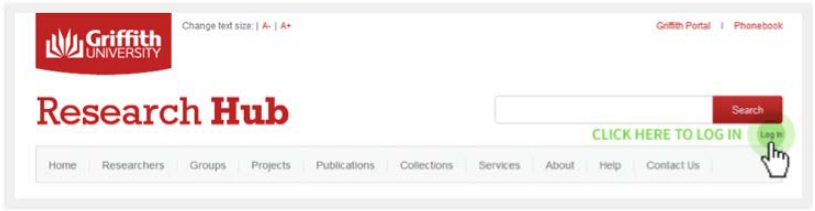
How does the Research Hub work?

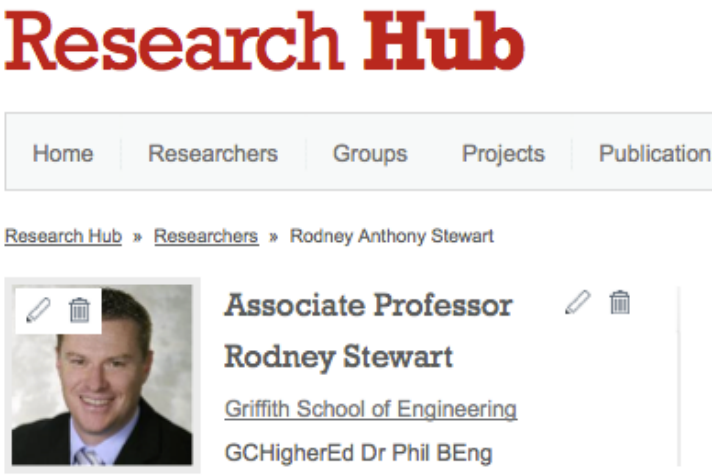
The Hub uses the ANDS-VITRO ontology: http://purl.org/ands/ontologies/vivo/

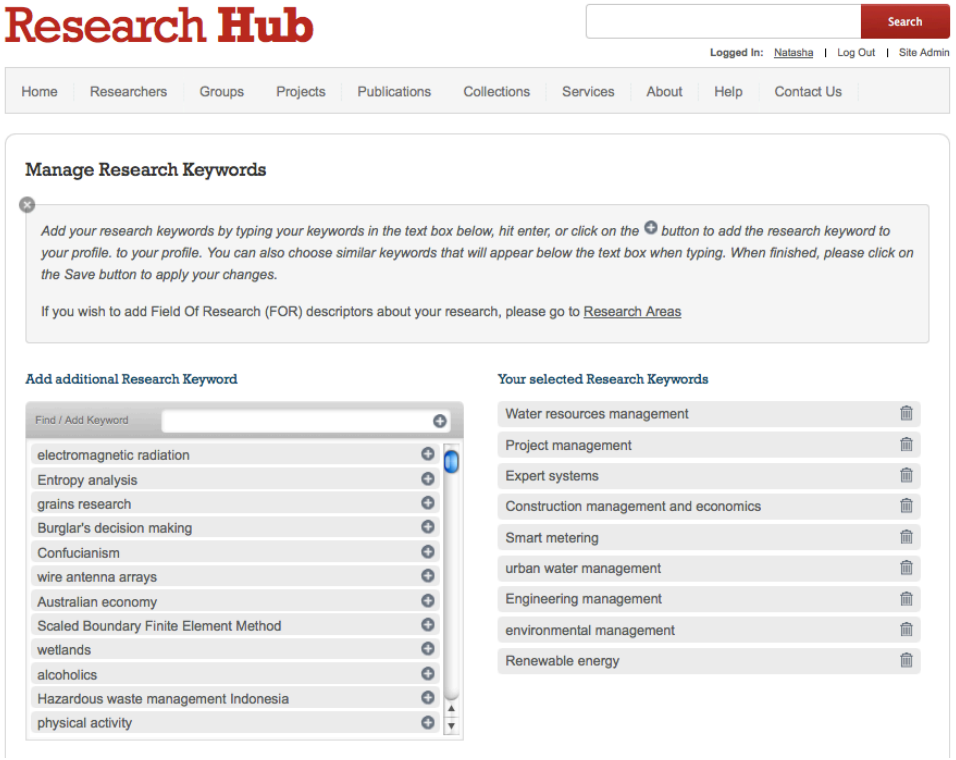


Griffith University has made all VIVO customisations available as open source code: https://github.com/gu-eresearch/VIVO

How does the Research Hub work?







The Research Hub is a self-edit model

What is the value in the Hub?

- ✓ Direct alignment with the vision of Griffith University, INS and ANDS.
- ✓ A single, comprehensive view of the university's research outputs.
- ✓ Showcase for Griffith researchers.
- ✓ Substantial web traffic.
- ✓ Enter data once, use many times.
- ✓ Development of an ontology for research shared nationally and internationally.

What challenges has the project team faced?

Research Hub project challenges:

- Early implementers of VIVO.
- Reaching agreement with various data owners.
- Getting support from stakeholders
- Impact of exposure of information never before made public.
- Impact of the self-edit model.
- Impact of rules on who gets a profile page.

Lessons learned:

- Post project support and in-kind contributions required.
- Ongoing support model should involve IT staff and librarians.
- Getting support from Office for Research & researchers is critical.

What are the plans for the Research Hub ?

Griffith UNIVERSITY

Change text size: | A- | A+

Griffith Portal | Phonebook

Research Hub

Search

Log In

Home | Researchers | Groups | Projects | Publications | Collections | Services | About | Help | Contact Us

Research Hub » Researchers » Elizabeth Kendall

Show Tooltips | Hide

Professor

Elizabeth Kendall

School of Human Services and Social Work

e.kendall@griffith.edu.au

+61 7 3382 1202

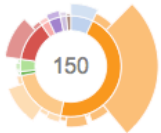
L05 4.56
LOGAN CAMPUS
University Drive Meadowbrook QLD

Overview | Publications | Projects | Contact | Other

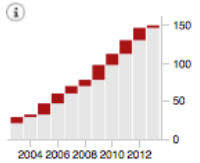
Member Of

Griffith Health Institute

Population and Social Health Research Program

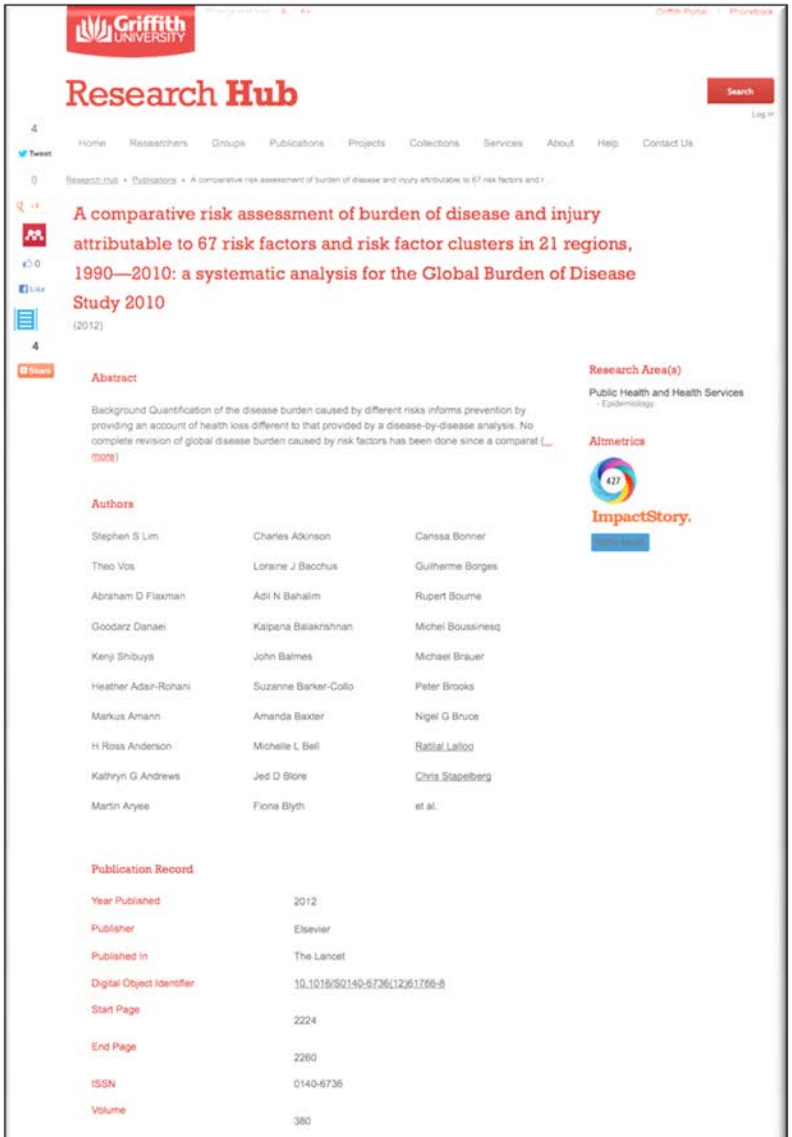


Publications by Fields of Research



Publications by Year

What are the plans for the Research Hub ?



Citation metrics and altmetrics at the article level (via integration with Symplectic)

Buttons to share, tweet etc.

What are the plans for the Research Hub ?

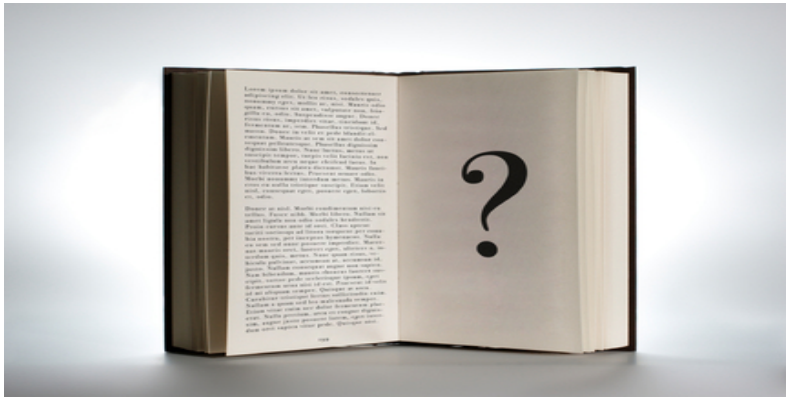
- ✓ Complete transition to ongoing support model.
- ✓ Ingest NHMRC and ARC grants data (via ANDS).
- ✓ Ingest of news data.
- ✓ Integration with Symplectic (metrics)
- ✓ Increase coverage to include all Griffith academics, higher degree research students and key research collaborators
- ✓ Increase scope to include all scholarly outputs including “grey literature”, teaching objects

We've started the story but we haven't yet written the ending…

A story of re-inventing the library as

"the guardian of the record"

and re-invigorating the concept of the university as a community of scholars in an increasingly digital global knowledge economy



Questions?