

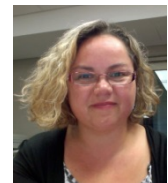
From Library to Research Hub

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***

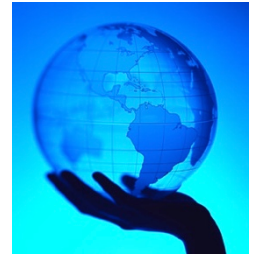
John Henry Newman, *The idea of a university*. 1852

The Library

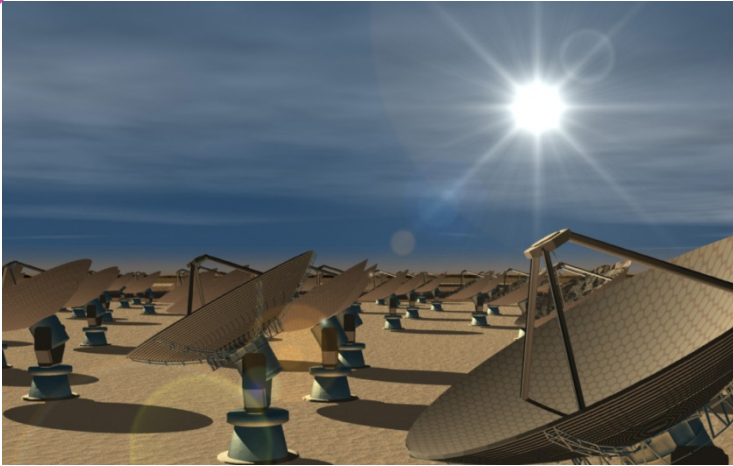
*The libraries and museums of the nation hold, and provide access to, the archives and collections that tell us about what we are and where we have come from. They are the **traditional repositories of human wisdom and knowledge**.*

*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>

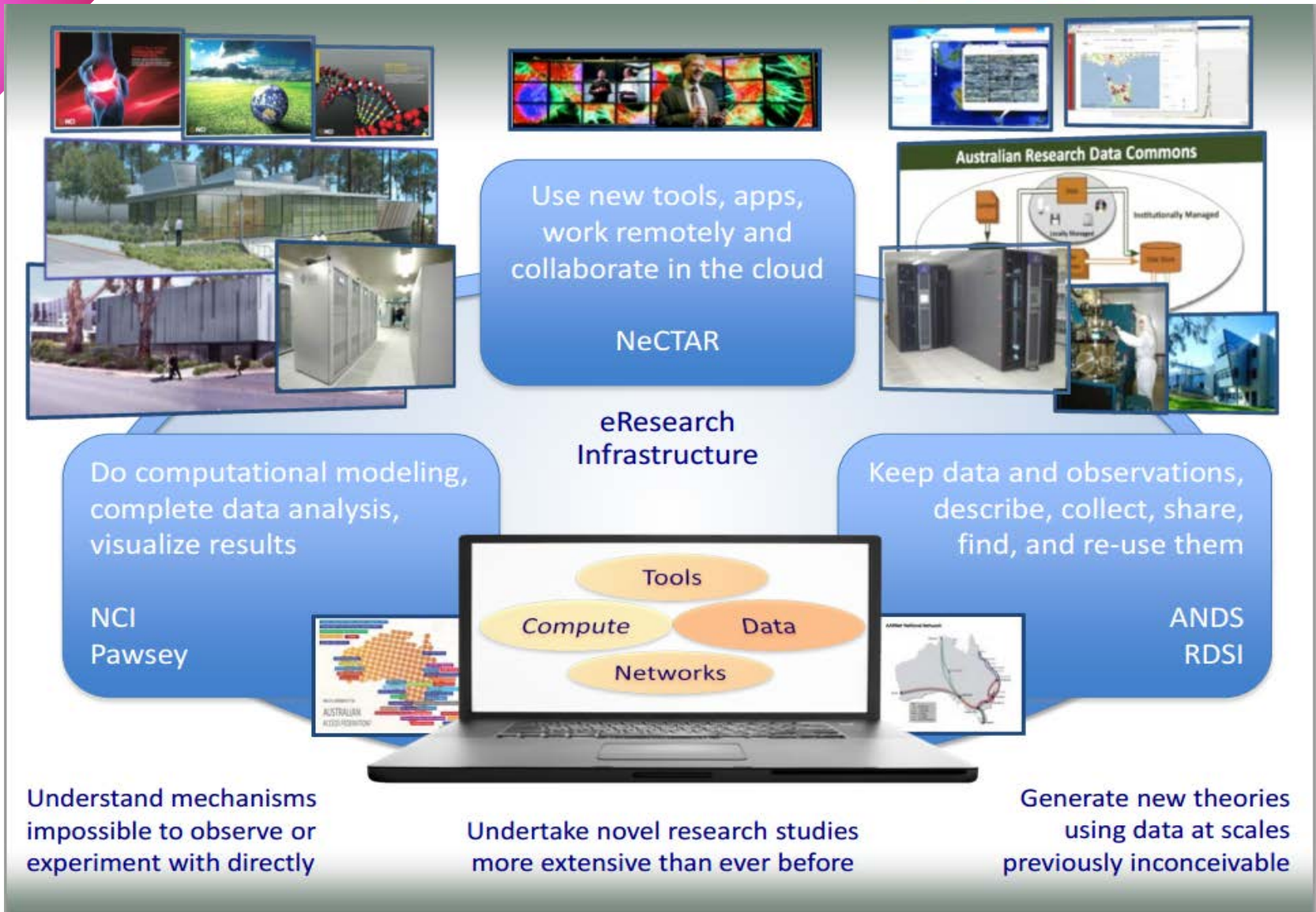
Image credit: <http://www.wired.com/wiredscience/2008/09/the-bosons-that/>

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)
<http://www.cni.org/wp-content/uploads/2010/11/arl-br-237.pdf>

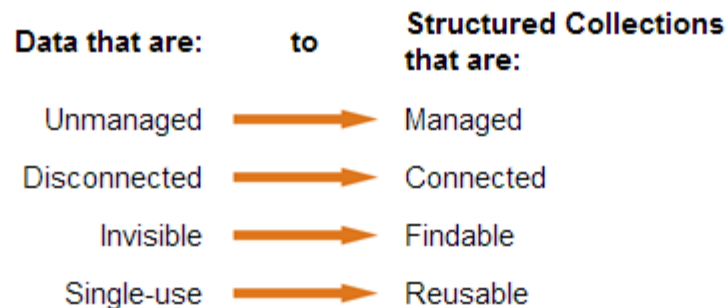
The Australian Research Context



Australian National Data Service

Our Vision: More Australian researchers reusing research data more often

ANDS is enabling the transformation of:



[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

Log In

- Home
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- Publications
- Collections
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- Contact Us

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

Name

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.

Research Hub

Search

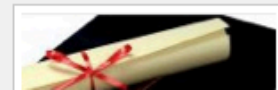
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[Home](#) | [Researchers](#) | [Groups](#) | [Projects](#) | [Publications](#) | [Collections](#) | [Services](#) | [About](#) | [Help](#) | [Contact Us](#)[Research Hub](#) » [Researchers](#) » Rodney Anthony Stewart[Show Tooltips](#) | [Hide](#)**Associate Professor
Rodney Stewart**[Griffith School of Engineering](#)
GCHigherEd Dr Phil BEngr.stewart@griffith.edu.au
+61 7 5552 8778G09 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

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



Change text size: | A- | A+

[Griffith Portal](#) | [Phonebook](#)

Research Hub

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- Home
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- Groups
- Projects
- ▶ Publications
- Collections
- Services
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There are more than 40000 publications listed in the Research Hub. Publications can be filtered according to their research area, which are governed by the Australian Bureau of Statistics research codes. Publications are divided into the following primary categories: Journal Articles, Books, Book Chapters, Conference Papers, Creative Works and Other.

1 – 10 of 56744 publications

Narrow Your Search Results

Keywords
publications (x)

Keyword(s)

"Strategic Ambiguity' and the New Bush Administration's 'China Threat'"

Authors:R. Keith

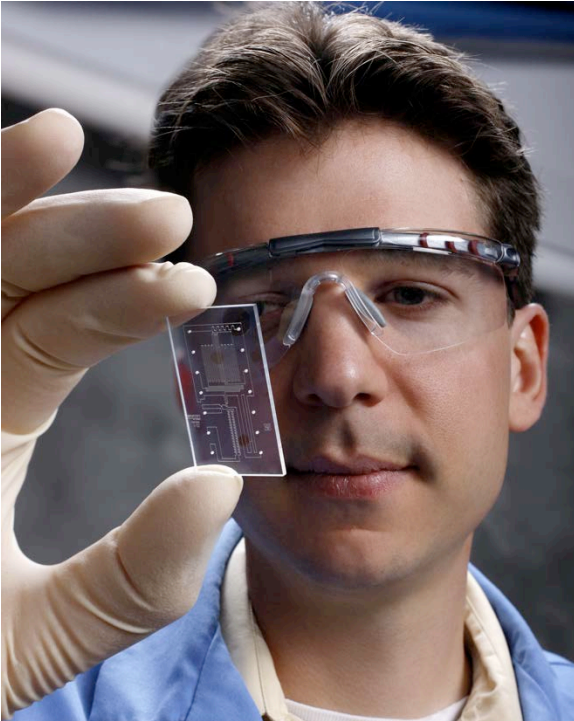
Research Keywords:Other Policy and Political Science

Year: 2001 **Volume:** 1 **Pages:** 1-19

"...where time suffers..." works by Crumb and Sciarrino

Authors:Alex Raineri,Nicholas Harmsen,Paul Ballam-Cross,Graeme Jennings,Janet McKay

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

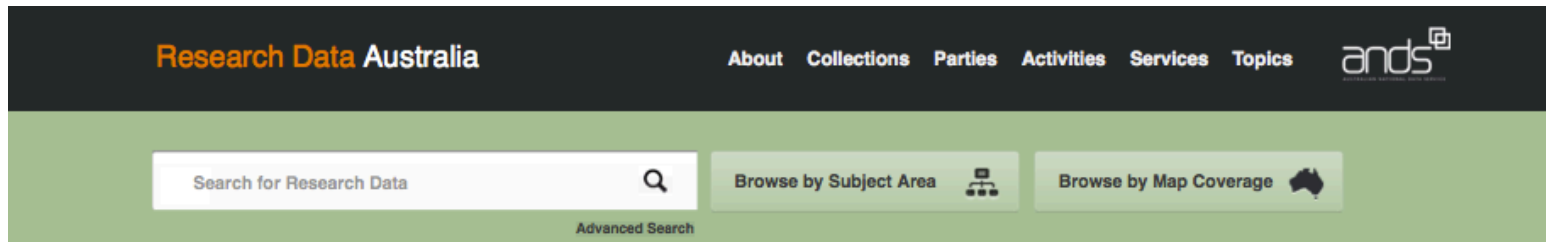
“Griffith University has no traditional library as such, and so they are in a position to concentrate on innovation. Their research hub project is a visionary integration of the entire research output of the university, in all formats, made discoverable and accessible for the whole world. Every kind 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?



Research Data Australia

About Collections Parties Activities Services Topics 

Search for Research Data  Browse by Subject Area  Browse by Map Coverage 

Advanced Search

What's in Research Data Australia



Collections (87154)
Research datasets or collections of research materials.



Parties (21888)
Researchers or research organisations that create or maintain research datasets or collections.



Activities (35715)
Projects or programs that create research datasets or collections.



Services (150)
Services that support the creation or use of research datasets or collections.

Spotlight on research data



Australian Antarctic Data Centre

The Australian Antarctic Division leads and delivers a world-class science program under the Antarctic Science Strategic Plan. The scientific program has a major focus on research relevant to sound environmental stewardship of the Australian Antarctic Territory (AAT), the Southern Ocean, and the Heard Island and McDonald Islands Territory (HIMI). The Australian Antarctic Data Centre integrates the research data sets created by the science programs and makes these accessible to scientists globally via the internet.

[Australian Antarctic Division Contributor Page](#)

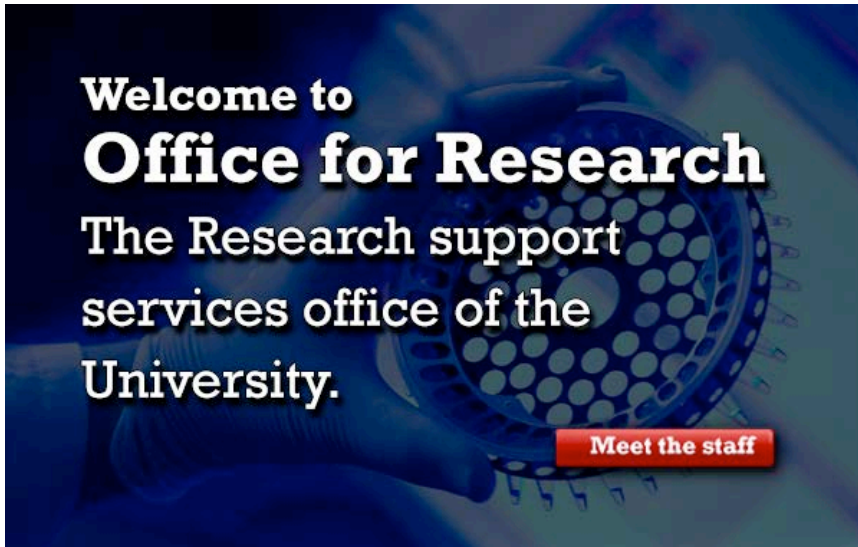
Who contributes to Research Data Australia?

78 research organisations from around Australia contribute information to Research Data Australia.

[See All](#)

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

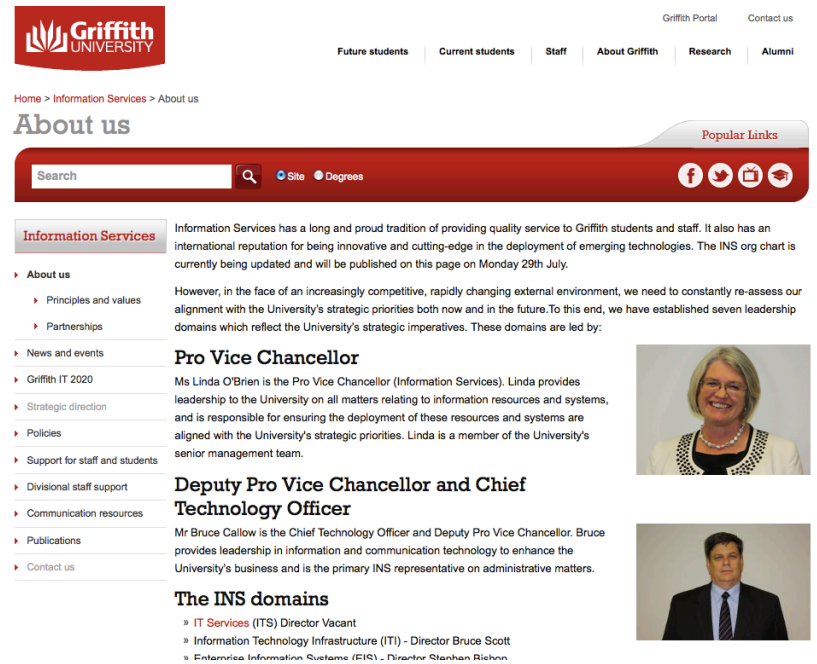
Who developed the Research Hub?



Griffith University partnership between:

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

Further funding provided through internal Griffith grant



Information Services

Information Services has a long and proud tradition of providing quality service to Griffith students and staff. It also has an international reputation for being innovative and cutting-edge in the deployment of emerging technologies. The INS org chart is currently being updated and will be published on this page on Monday 29th July.

However, in the face of an increasingly competitive, rapidly changing external environment, we need to constantly re-assess our alignment with the University's strategic priorities both now and in the future. To this end, we have established seven leadership domains which reflect the University's strategic imperatives. These domains are led by:

Pro Vice Chancellor
Ms Linda O'Brien is the Pro Vice Chancellor (Information Services). Linda provides leadership to the University on all matters relating to information resources and systems, and is responsible for ensuring the deployment of these resources and systems are aligned with the University's strategic priorities. Linda is a member of the University's senior management team.

Deputy Pro Vice Chancellor and Chief Technology Officer
Mr Bruce Callow is the Chief Technology Officer and Deputy Pro Vice Chancellor. Bruce provides leadership in information and communication technology to enhance the University's business and is the primary INS representative on administrative matters.

The INS domains

- » IT Services (ITS) Director Vacant
- » Information Technology Infrastructure (ITI) - Director Bruce Scott
- » Enterprise Information Systems (EIS) - Director Stephen Riches

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](#)

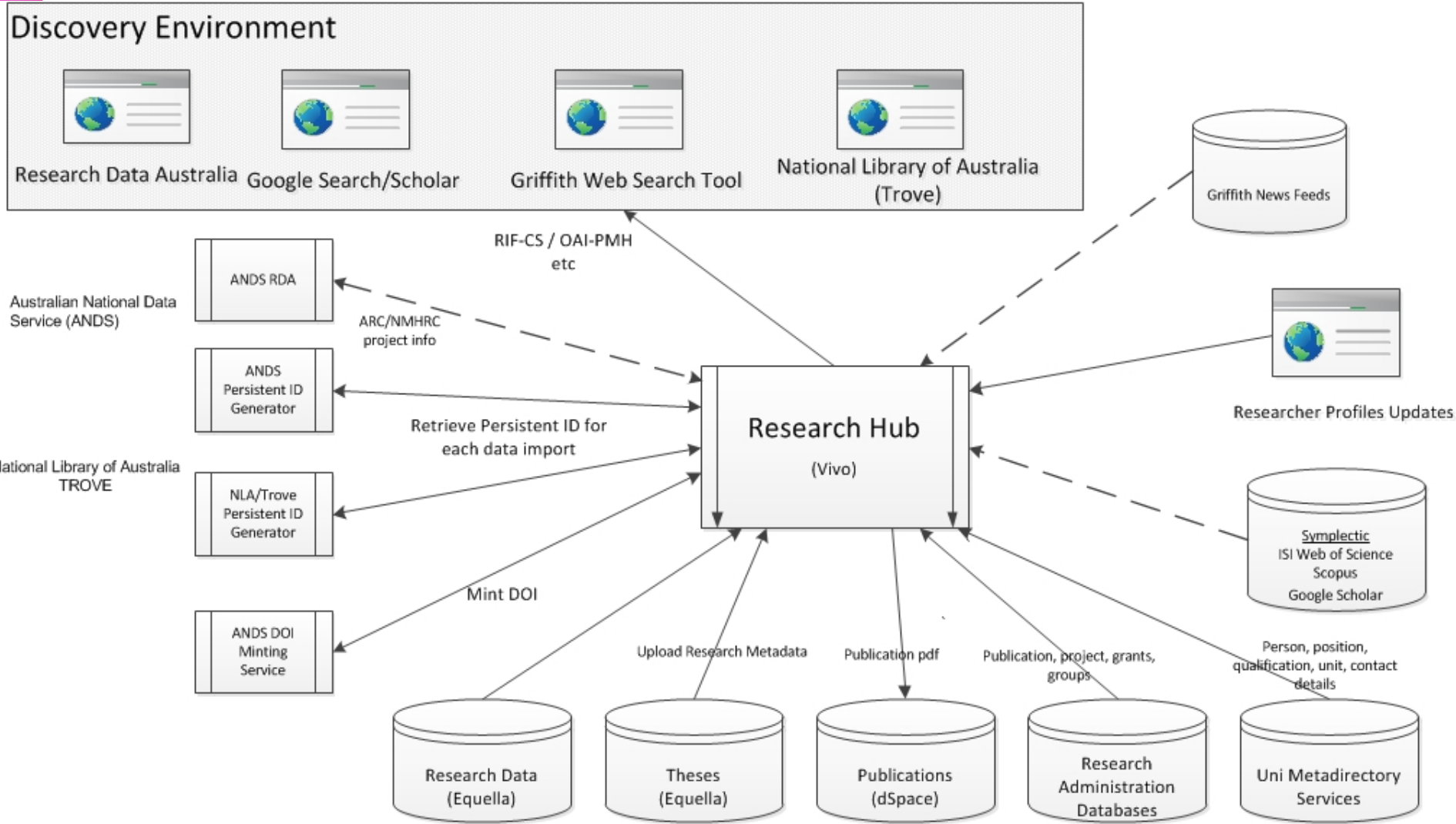
[Research Administration Database](#)

[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)

Short 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
<http://dx.doi.org/10.4225/01/4F8CFB0ADD59C>
<http://dx.doi.org/10.4225/01/4F8CFB0ADD59C>

Identifiers
Handle: <http://hdl.handle.net/102.100/1009685>
URI: <http://dx.doi.org/10.4225/01/4F8CFB0ADD59C>
URI: <http://research.hub.griffith.edu.au/individuals/177a50ca2011a399c2200998835ac5>

More Information
Related report
URI: <http://hdl.handle.net/10072/44802>

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 and use, Smart meters, Water and use consumption

Access
<http://dx.doi.org/10.4225/01/>
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
 Domestic Water End Use Study - High Resolution Water Measurement
Researchers
 Associate Professor Rodney Stewart
 Dr Cara Bear
Services
 Smart Meter Information Portal
Collections
 Urban Water National Collection
 Urban Water Security Research Alliance Collection
Contributed by
 Griffith University

Suggested Links
Internal Records
 11 records with matching identifiers
 11 records with matching subjects
External Records
 12 records from DataCite

- 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?

NATIONAL LIBRARY OF AUSTRALIA



All	Books	Pictures, photos, objects	Journals, articles and data sets	Digitised newspapers and more	Music, sound and video	Maps	Diaries, letters, archives	Archived websites (1996 – now)	People and organisations	Lists
-----	-------	---------------------------	----------------------------------	-------------------------------	------------------------	------	----------------------------	--------------------------------	--------------------------	-------

Contributors



Stewart, R.

Also known as
Libraries Australia
NLA Persistent Identifier

Stewart, Rodney, (Associate Professor)
<http://nla.gov.au/anbd.aut-an36531641>
<http://nla.gov.au/nla.party-631097>

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Biographies

Griffith University

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 management, innovation diffusion), process improvement (six sigma, TQM, international standards), modern procurement practices (joint ventures, PPP, BOOT, alliance contracts, technology transfer), water resource management (water end-use analysis, recycled water strategies, least cost demand management solutions), environmental management (water conservation, energy conservation), renewable energy systems (PV systems, battery storage, smart grid), smart asset management (decision support systems, fibre optics) and engineering education (project based learning, work integrated learning, international students).

[View the full record at Griffith University](#)

Resources for R. Stewart

Resources by (208) Resources about (5)

Resources by R. Stewart (208)

[Aerial spray adjuvants for herbicidal drift control / H. Gratkowski, R. Stewart](#)
Gratkowski, H
[Article : 1973]

At 2 libraries

[Bundaberg Irrigation Area Isis Balancing Storage : report on geotechnical investigations / by A. Eadie and R. Stewart](#)
Eadie, A
[Book : 1984]

At FHP 1 library

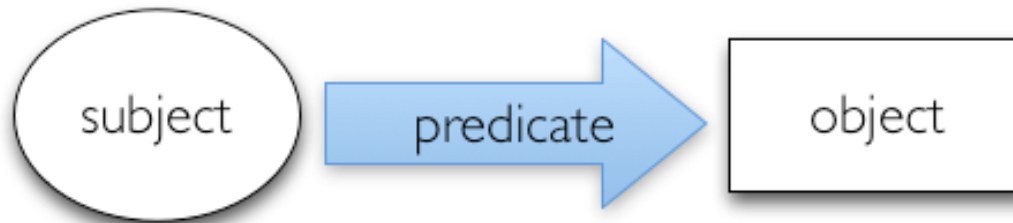
Party records are harvested from the Hub into the National Library of Australia's Trove service.

How does the Research Hub work?



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.

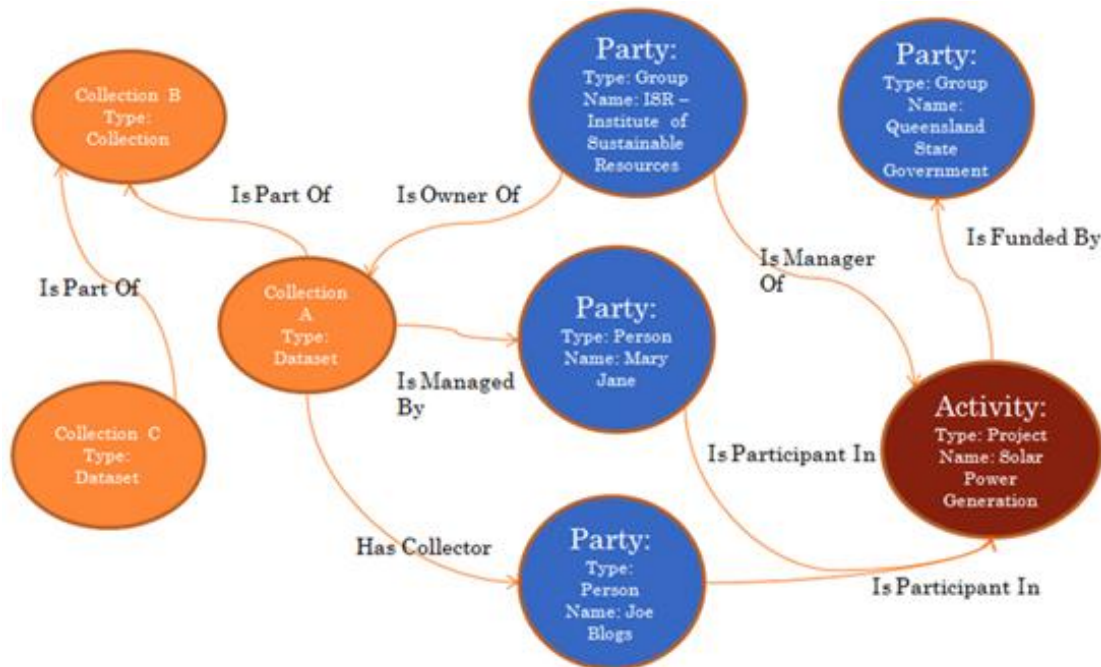
RDF Triple Store



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

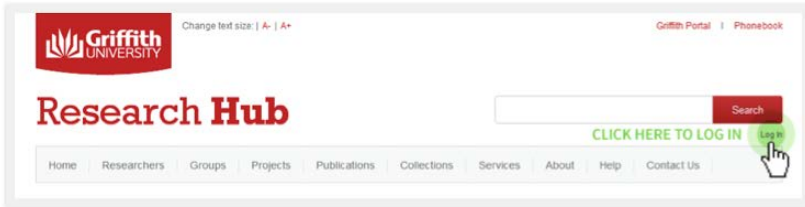
How does the Research Hub work?

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

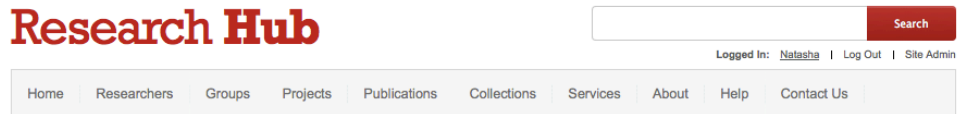


Griffith University has made all VIVO customisations available as open source code: <https://github.com/gu-eresearch/VIVO>

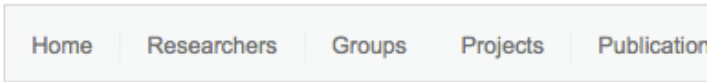
How does the Research Hub work?



Research Hub



Research Hub



[Research Hub](#) » [Researchers](#) » Rodney Anthony Stewart



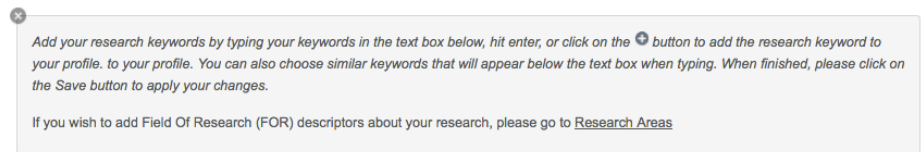
Associate Professor

Rodney Stewart

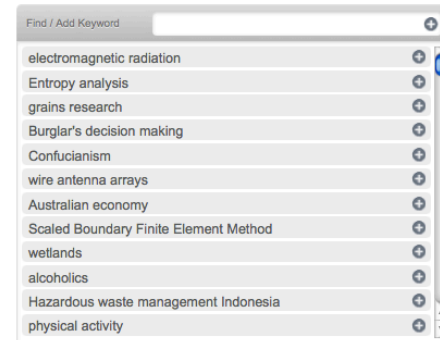
[Griffith School of Engineering](#)

GCHigherEd Dr Phil BEng

Manage Research Keywords



Add additional Research Keyword



Your selected Research Keywords



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 ?



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Research Hub

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[Research Hub](#) » [Researchers](#) » Elizabeth Kendall

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Professor

Elizabeth Kendall

[School of Human Services and Social](#)

[Work](#)

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+61 7 3382 1202

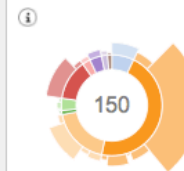
L05 4.56
LOGAN CAMPUS
University Drive Meadowbrook QLD

[Overview](#) | [Publications](#) | [Projects](#) | [Contact](#) | [Other](#)

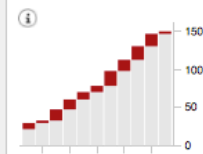
Member Of

[Griffith Health Institute](#)

[Population and Social Health Research Program](#)

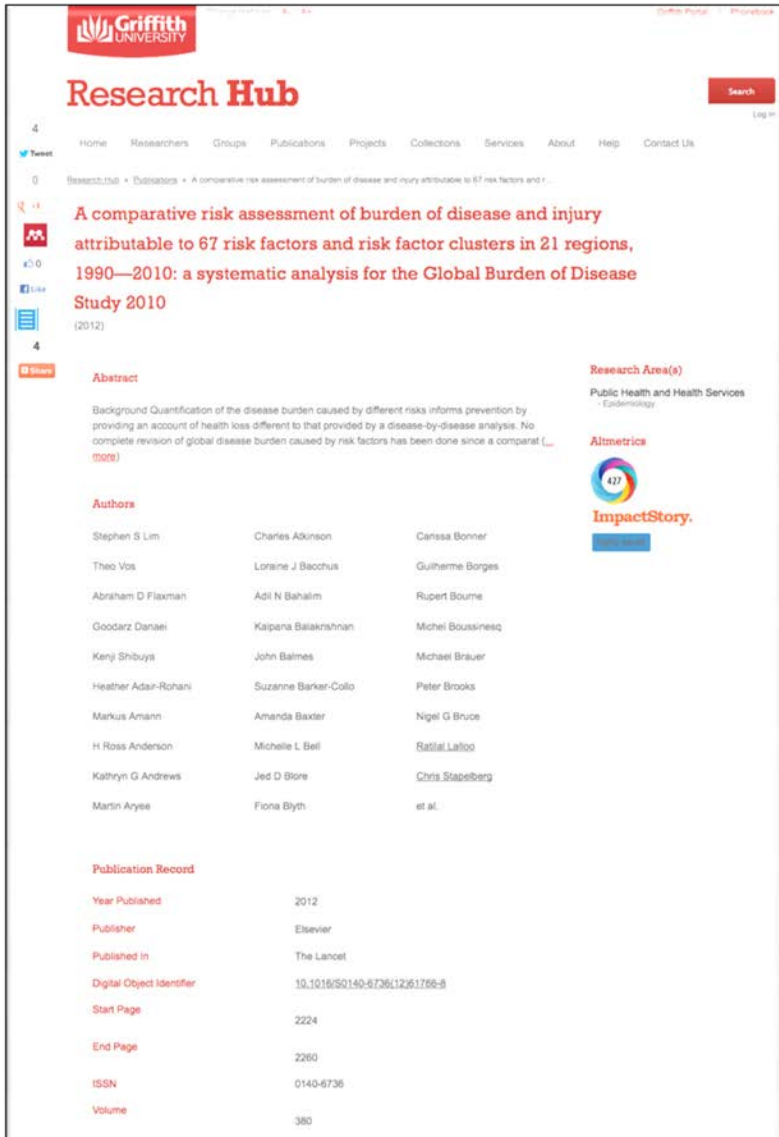


Publications by Fields of Research



Publications by Year

What are the plans for the Research Hub ?



Research Hub

Home Researchers Groups Publications Projects Collections Services About Help Contact Us

Research Hub » Publications » A comparative risk assessment of burden of disease and injury attributable to 67 risk factors and risk factor clusters in 21 regions, 1990—2010: a systematic analysis for the Global Burden of Disease Study 2010 (2012)

A comparative risk assessment of burden of disease and injury attributable to 67 risk factors and risk factor clusters in 21 regions, 1990—2010: a systematic analysis for the Global Burden of Disease Study 2010
(2012)

Abstract

Background Quantification of the disease burden caused by different risks informs prevention by providing an account of health loss different to that provided by a disease-by-disease analysis. No complete revision of global disease burden caused by risk factors has been done since a comparat...

Authors

Stephen S Lim	Charles Atkinson	Canessa Bonner
Theo Vos	Loraine J Bacchus	Guilherme Borges
Abraham D Flaxman	Adil N Bahalin	Rupert Bourne
Goodarz Danaei	Kaipena Balakrishnan	Michel Boussinesq
Kenji Shibuya	John Balmes	Michael Brauer
Heather Adair-Rohani	Suzanne Barker-Colo	Peter Brooks
Markus Amann	Amanda Baxter	Nigel G Bruce
H Ross Anderson	Michelle L Bell	Battal Laloo
Kathryn G Andrews	Jed D Blore	Chris Steptemberg
Martin Aryee	Fiona Blyth	et al.

Publication Record

Year Published	2012
Publisher	Elsevier
Published in	The Lancet
Digital Object Identifier	10.1016/S0140-6736(12)61766-8
Start Page	2224
End Page	2260
ISSN	0140-6736
Volume	380

Research Area(s)
Public Health and Health Services
Epidemiology

Altmetrics
427
ImpactStory.

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

Buttons to share, tweet etc.



4

Tweet

0

Like

4

Share

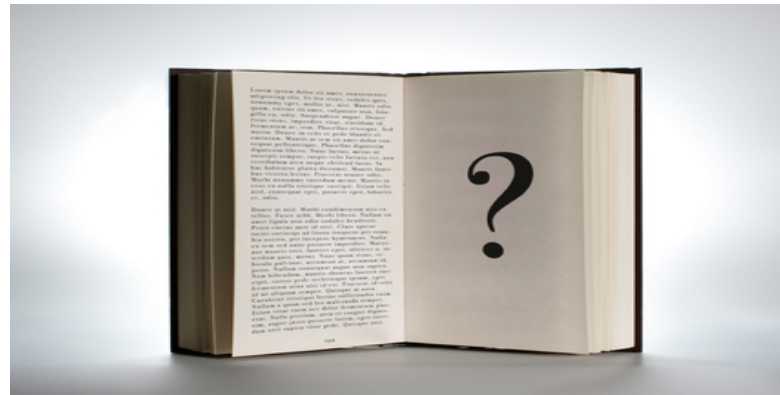
What are the plans for the Research Hub ?

- ✓ 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



The background of the slide is composed of a complex, low-poly geometric pattern. The top half features a gradient from dark blue on the left to light purple on the right. The bottom half features a gradient from light purple on the left to dark purple on the right. The central area is a plain white background.

Questions?