From Library to Research Hub

Connecting an Entire University Research Enterprise

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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 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://www.wired.com/wiredscience/2008/09/the-bosons-that/
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.

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

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

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 2,500+ 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.
Welcome to Griffith University's Research Hub, a rich and informative guide to the University's expertise in a comprehensive array of academic fields.

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.
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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
The Hub contains:

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

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Griffith University partnership between:

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

Further funding provided through internal Griffith grant.
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
How does the Research Hub work?
How does the Research Hub work?

- 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

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
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?

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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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?