Global Access to Science: Meeting the Revolution

IATUL 28th Conference, Stockholm, Sweden. June 2007

Professor Tom Cochrane, Deputy Vice-Chancellor

(Technology, Information and Learning Support)

Queensland University of Technology

The Revolution in Science

"A scientific revolution is just beginning. It has the science-based innovation potential to create an era of that could completely eclipse the last half-century of technology-based innovation; and with that, a new wave of global social, technological and economic growth."

Towards 2020 Science

Growth or Survival?

Whether supporting growth or meeting urgent needs to solve problems that are global in scale, the new science will challenge university IT and Library capabilities in unprecedented ways.

Paper was challenging once too!

'…put yourself in the place of your ancestors at the time the printing press was invented. "My God', they cried, 'now there could be as many as a thousand books. How will we ever read them all?'
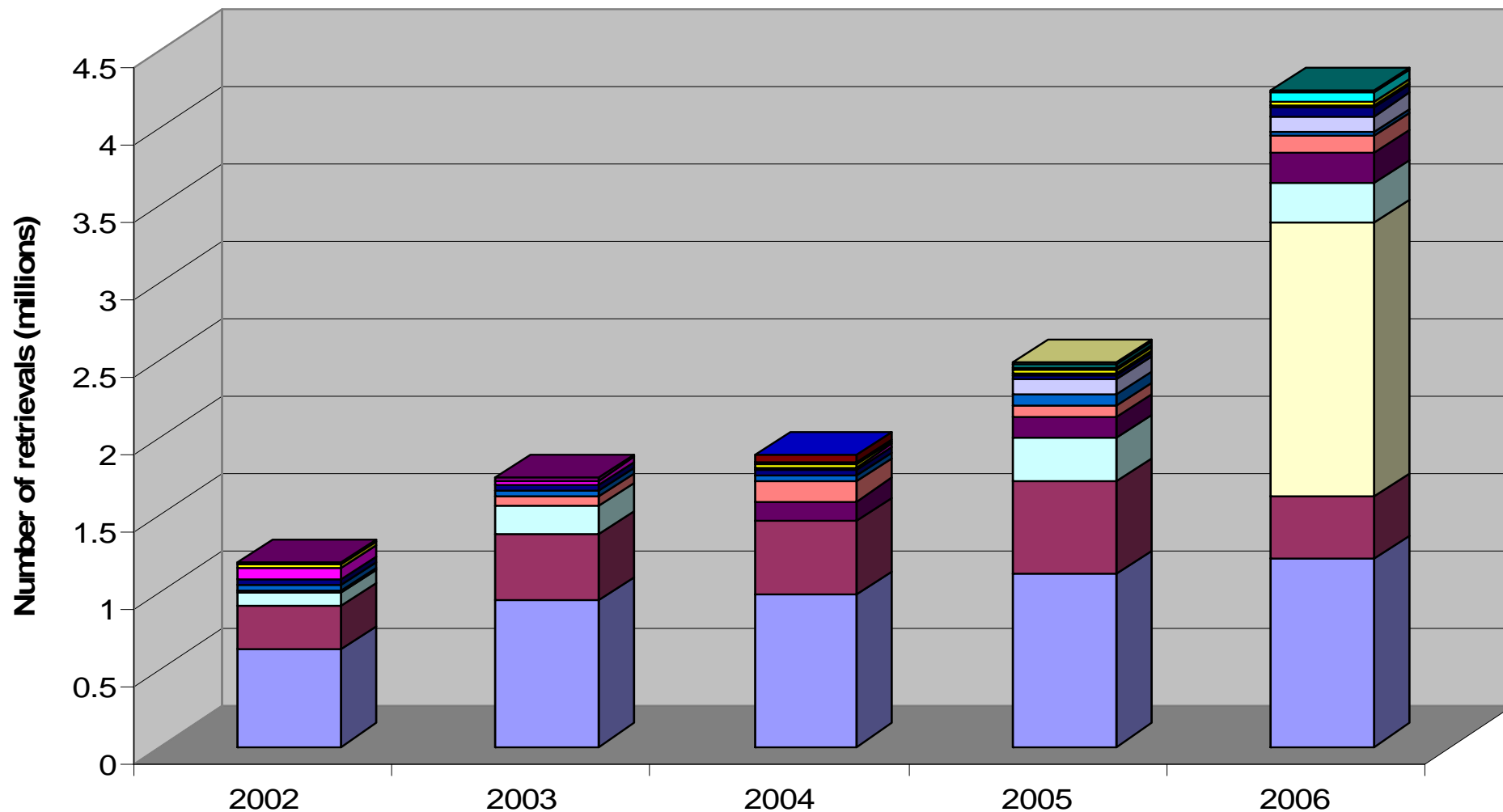
Sir Arthur C Clarke

QUT Library - Trends in Electronic Full Text Retrievals
Source: QUT Library Quarterly Reports - Usage Statistics (2002-2006)
(colours represent access through different vendors, one colour per vendor)

Number of retrievals (millions)

4.5

4

3.5

3

2.5

2

1.5

1

0.5

0

2002   2003   2004   2005   2006

Institutional Repository

"An Institutional Repository is an online locus for collecting, preserving, and disseminating – in digital form– the intellectual output of an institution, particularly a research institution."

Wikipedia

"What are Repositories? They are simply the result of researchers discovering that if their children can do it, then so can they."

Les Carr, May 2007

Institutional repository policy at QUT

Institutional repository policy at QUT

QUT Queensland University of Technology
Brisbane Australia

a university for the real world®
Manual of Policies and Procedures

QUT Home   Contact us   Search [   ] >

| MOPP Home | Protocol for MOPP Policy | Recent Updates | |

Policy F/1.3 E-print repository for research output at QUT

Chapters
A - Governance/Organisation
B - Human Resources
C - Teaching/Learning
D - Research/Development
E - Student Administration
F - Information Management
G - Financial Management
H - Physical Facilities
I - International/Community
MOPP Appendices
- -
MOPP Protocol
MOPP Updates

[Print-friendly version]

Contact Officer	Associate Director (Information Resources), Library
Approval Date	24/03/2006
Approval Authority	University Academic Board
Date of Next Review	01/07/2009

1.3.1 Application
1.3.2 Policy
1.3.3 Responsibility
1.3.4 Operational Guidelines
Modification History

1.3.1 Application

QUT staff and post-graduate students produce research and scholarly output as a contribution to their discipline and/or as part of scholarly discourse. A significant proportion of this is intended for publication for the general purpose of recognition and impact. The following policy applies to this process, only where such output is not intended for commercialisation or individual royalty payment or revenue for the author or QUT. In effect it applies to the corpus of refereed research literature, conference proceedings, and other non-refereed output, as contributed by QUT to the outside world.

Top

Institutional repository policy at QUT

1.3.2 Policy

Material which represents the total publicly available research and scholarly output of the University is to be located in the University's digital or " E print " repository, subject to the exclusions noted. In this way it contributes to a growing international corpus of refereed and other research literature available on line, a process occurring in universities worldwide.
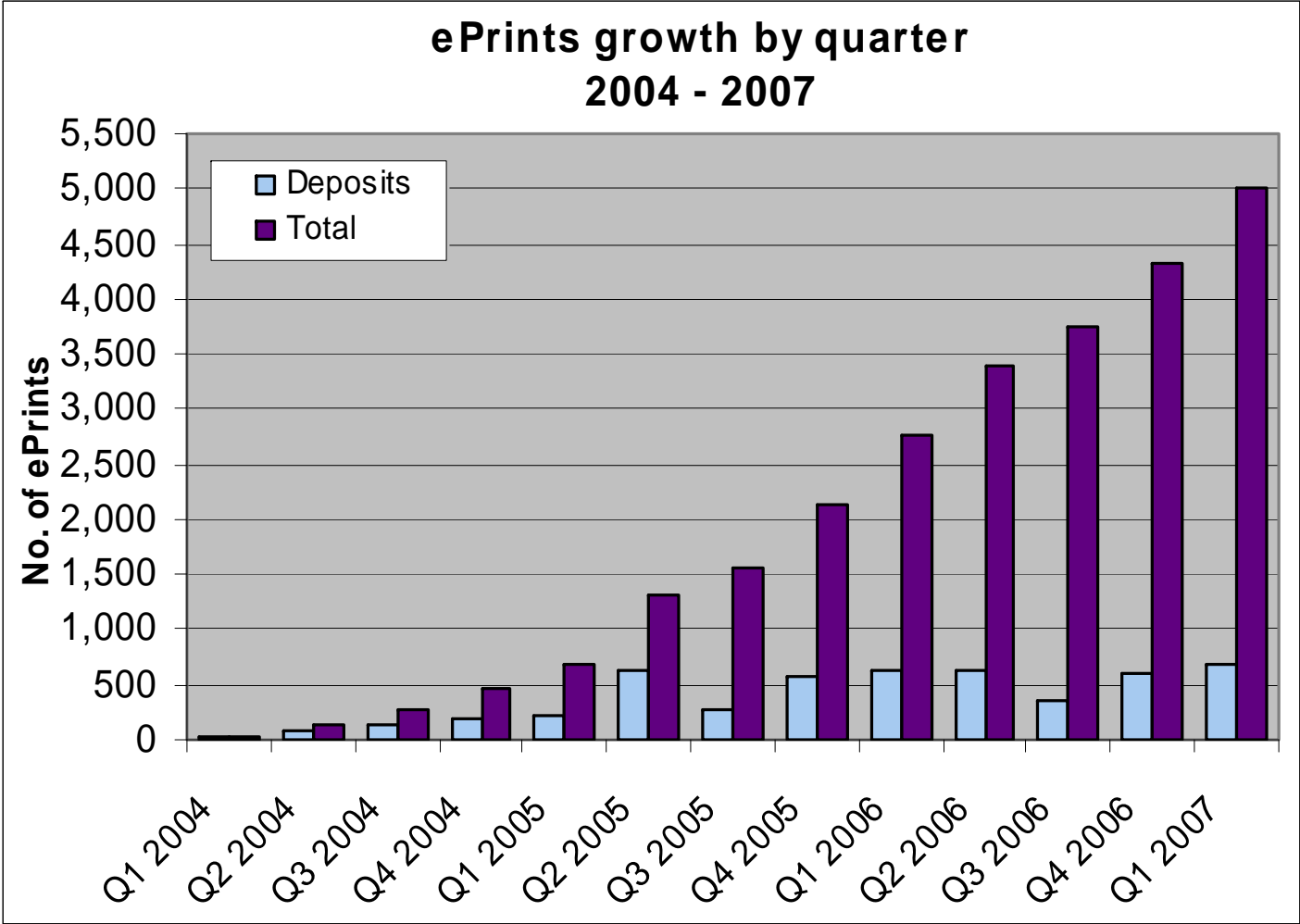
Institutional repository policy at QUT

1.3.2 Policy

The following materials are to be included:

- Refereed research articles and contributions;
- Un-refereed research literature, conference contributions, chapters in proceedings, etc (the accepted draft).
- Theses as prepared for the Australian Digital Theses (ADT) process.
- Access to these contributions will be subject to any necessary agreement with the publisher.
- The material is to be organised in the repository according to the same categories used for the reporting of research to DEST
- Material to be commercialised, or which contains confidential material, or of which the promulgation would infringe a legal commitment by the University and/or the author, should not be included in the repository.

QUT ePrints Deposit Rate

ePrints growth by quarter
2004 - 2007

QUT ePrints Top 10 Authors

Date range : 05/2006 - 05/2007

Rank	Author	File Downloads
1	**Frost, Ray**	**45858**
2	**Worthington, Andrew**	**28153**
3	**Cunningham, Stuart**	**25547**
4	**Skitmore, Martin**	**21709**
5	**Watters, Jim**	**21442**
6	**Courtney, Mary**	**20493**
7	**Kloprogge, Theo**	**19555**
8	**Farrell, Ann**	**19198**
9	**Pham, Binh**	**18852**
10	**Ferreira, Luis**	**18062**

The Rise of Mandates for Open Access

- European Research Commission (ERC)

- National Institute of Health (NIH)

- Australian Research Council (ARC)

- National Health and Medical Research Council (NHMRC)

- Australian Productivity Commission (APC)

- Wellcome Trust

Funder and Institutional Mandates

- Funder mandates, 15,
  (Belgium,Europe,UK,Australia)
- Institutional mandates, 11
  (Belgium,Europe,India,Portugal,Russia,Switzerland, Turkey,UK, Australia)

--as of 31 May 2007, Registry of Open Access Repository Material Archiving Policies.

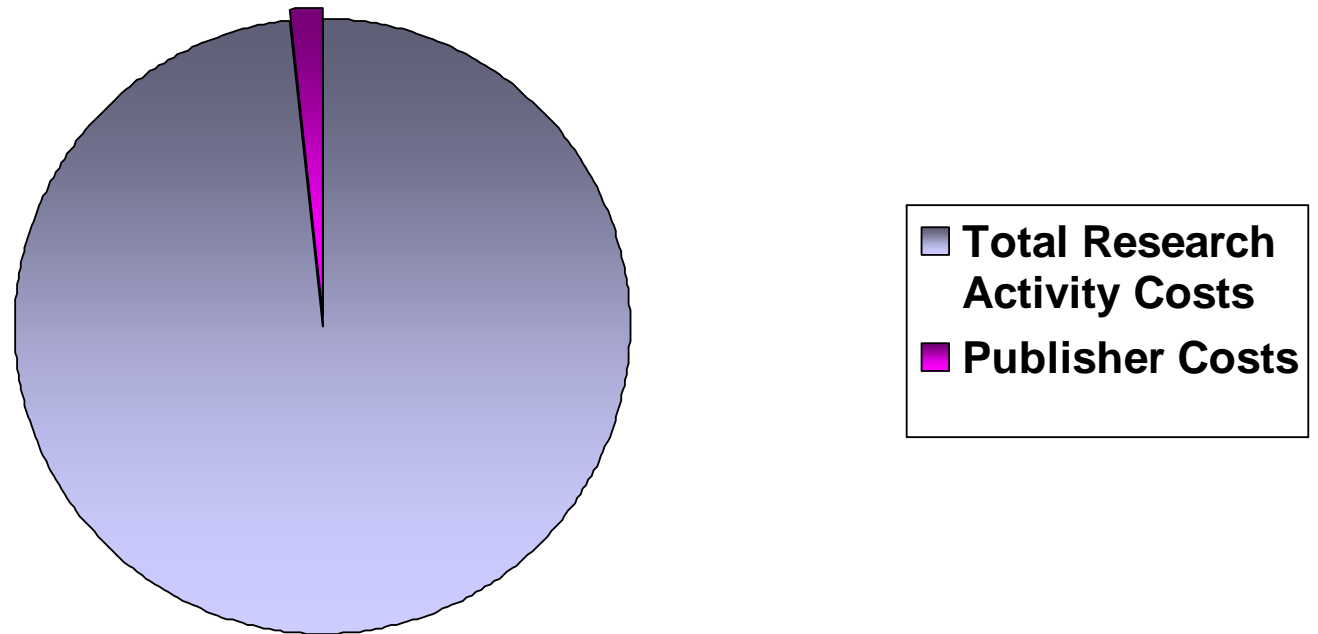www.eprints.org/openaccess/policysignup/

Gold or Green?

- Gold: provides publisher revenue but challenges researchers and libraries.

- Green: may bypass or duplicate publisher containers but is more controlled by the researcher (whether immediate or deferred access).

- Will Gold evolve from Green?

R&D vs Publishing

Legend:
- Total Research Activity Costs
- Publisher Costs

Publisher costs as proportion of total research activity costs, Australia, '03/'04

(Research Communication Costs in Australia, Emerging Opportunities and Benefits, Houghton, Steele and Sheehan,CSES Working Paper, No.24, August 2006)

Professor Tom Cochrane
Technology, Information and Learning Support
CRICOS No. 000213J

Familiar Confusables

- What is a repository? i.e. what's in it?

- What does publishing mean?

- Journal title =research quality?

- Copyright as obstacle, distraction or enabler?

Oak Law Homepage
(http://www.oaklaw.qut.edu.au/)

Semantic loss

"Those who focus on open access, far from being radical, are not being nearly radical enough."
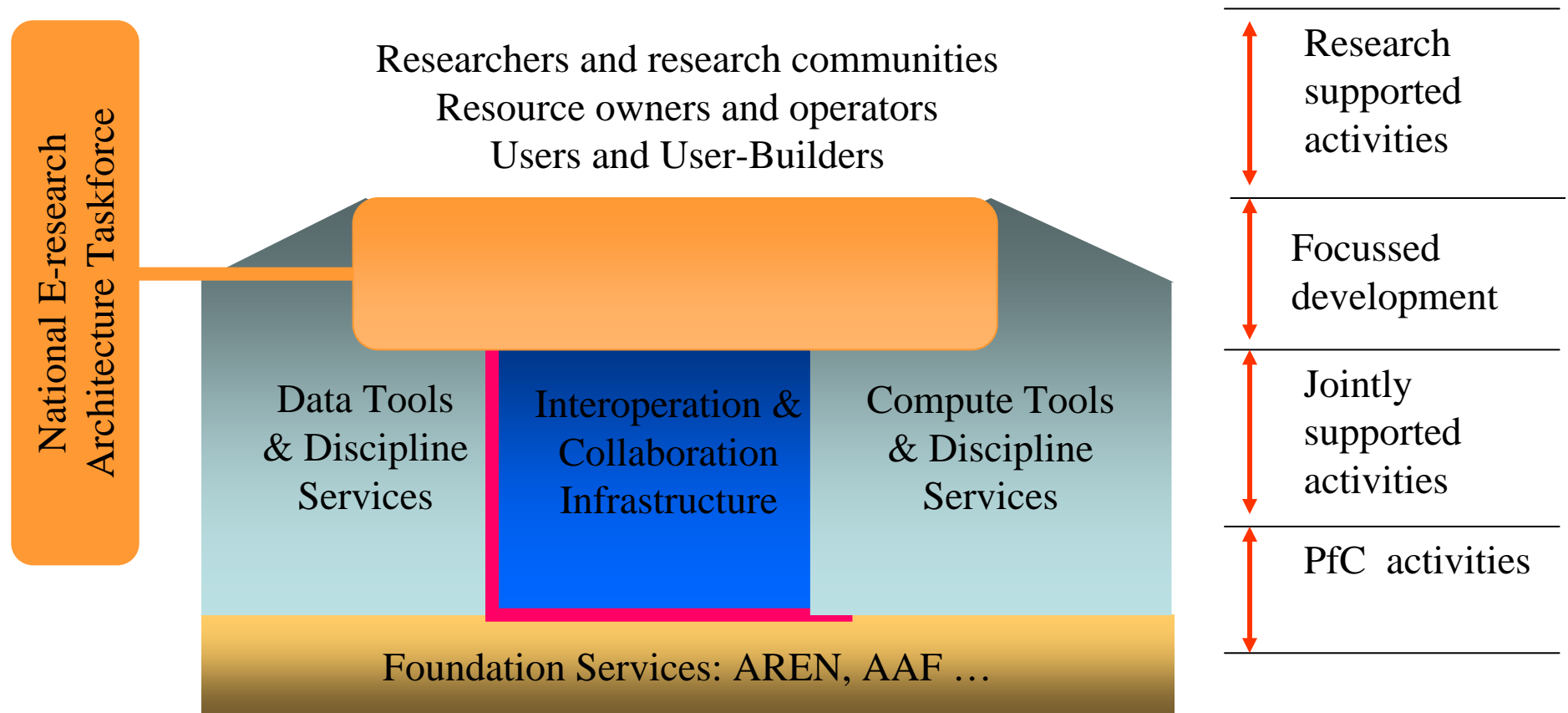
Timo Hannay

Responding to the Data Deluge

- Data more systematically linked and accessible
- The institutional repository due for a rethink
- Data duration – a global issue
- Tools and techniques of eResearch

NCRIS Platforms for Collaboration

National E-research Architecture Taskforce

Researchers and research communities
Resource owners and operators
Users and User-Builders

| Data Tools & Discipline Services | Interoperation & Collaboration Infrastructure | Compute Tools & Discipline Services |

Foundation Services: AREN, AAF …

Research supported activities

Focussed development

Jointly supported activities

PfC activities

NCRIS funds national components, and co-funds other components, noting that foundation services are to be mostly member funded

Professor Tom Cochrane
Technology, Information and Learning Support
CRICOS No. 000213J

The Investment Plan

The Investment Plan is now public at:

http://www.ncris.dest.gov.au/capabilities/collaborative_investment_plan_platforms.htm

The Challenge of the Activist Mission

- Informed understanding of the rapidly changing dynamics of scholarly publishing
- Readiness to lead in enhancing accessibility to the research of our institutions
- Clarity about the role and strategic deployment of repositories and their use
- Repudiation of the view that the 'problems' are too big for those with service enabling roles
- Knowledge of significant changes in the way Science is done and communicated
- Disposition to lead, or share the lead, in dealing with the data deluge

Questions