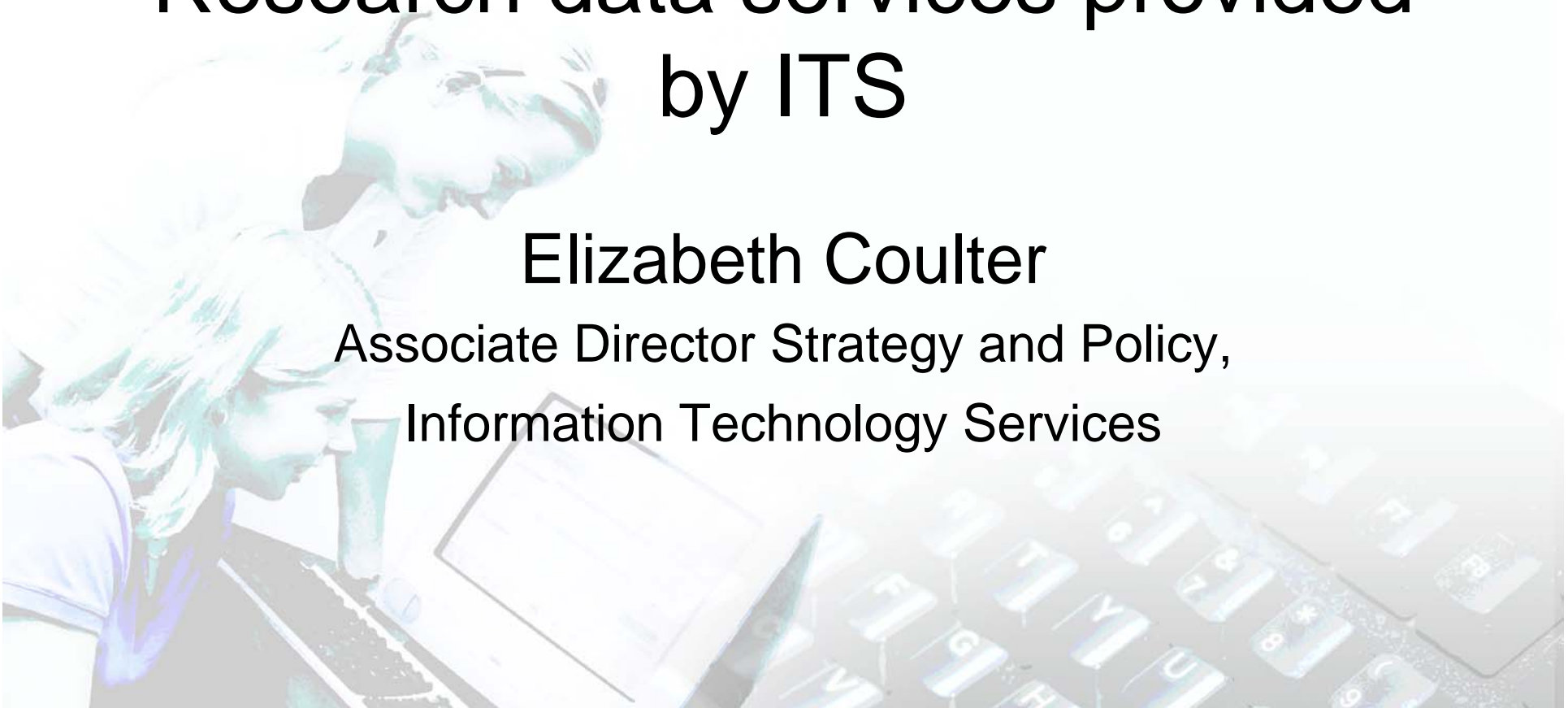




# Research data services provided by ITS

Elizabeth Coulter

Associate Director Strategy and Policy,  
Information Technology Services





# ITS involvement in Research Initiatives

- Leading role in the AAF
  - AusCERT significant work on AAF and PKI
  - Expect to be involved operationally in the Federation with AARNet and Macquarie Uni
- Technical Reference Group for ANDS
  - Defining what the ANDS service will be
  - Library expected to have substantial participation through APSR which is expected to play a significant role
- MACE – Rodney McDuff
- ECAM – Patricia McMillan
- MAPS – Patricia McMillan



# Research Section in ITS

- Research and Teaching Technologies Group
  - HPC
  - AV/Video
  - Strategic Technologies
- Goals – To play a key role in the UQ research/eResearch agenda providing associated services including
  - HPC
  - Management of Information
  - Workflows
  - Storage/backup/archive of data
  - Data Security



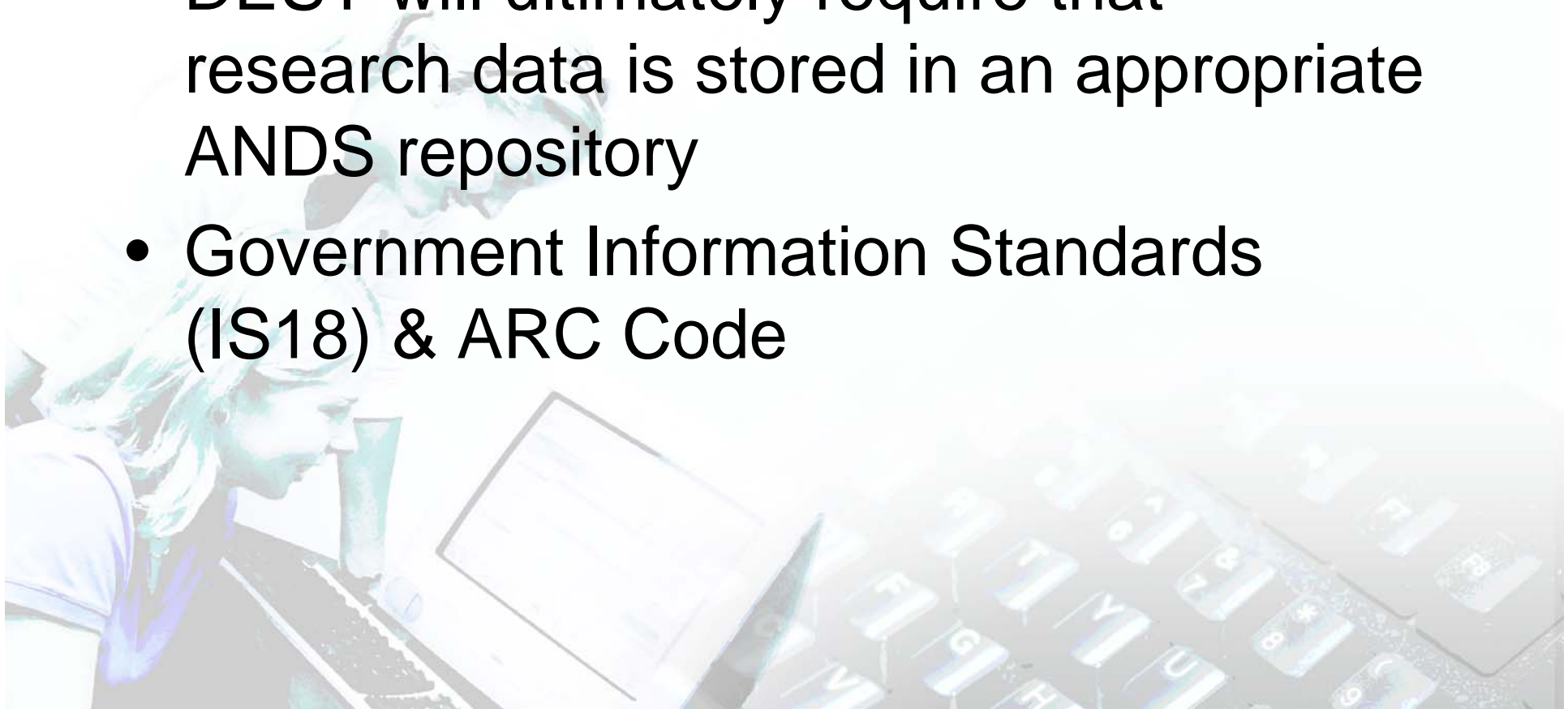
# Research Data Storage

- Jointly applied for a Lief grant with Griffith and QUT for providing a research data store (awaiting outcome)
- Developing an infrastructure to securely store, backup and archive data across multiple sites. Currently used for corporate applications and extending this for research data.
- As part of ANDS - Expect to establish a substantial data store for research data (awaiting on ANDS project)
- Longer term – applying information dispersal algorithms to heavily reduce costs by geographical dispersion across great distances (QADDS)



# Why?

- ARC – Code of Conduct
- DEST will ultimately require that research data is stored in an appropriate ANDS repository
- Government Information Standards (IS18) & ARC Code





# Why?

- Government Information Standards (IS18) & ARC Code
  - Appropriate management and security of all classifications of information maintaining:
    - **Confidentiality:** ensuring that information is accessible only to those authorised to have access.
    - **Integrity:** safeguarding the accuracy and completeness of information and processing method.
    - **Availability:** ensuring that authorised users have access to information and associated systems when required.
    - **Responsible use:** ensuring that controls are in place so that users of UQ IT systems are not able to affect adversely other users or other systems.
    - **Compliant Use:** meeting legal and contractual obligations.  
(HUPP: UQ Security Management Policy)
  - Security Management – UQ Incident Response Team/AusCERT (National Computer Emergency Response Team/ Early warnings)
  - Accommodating different levels of data security from a local and national perspective depending on requirements



# Information Management

- Business Continuity Planning/ Academic Continuity
  - “the institutions ability to maintain or restore its business and academic services when some circumstance threatens to disrupts normal operations”
  - “challenging disruptive events happen at higher education institutions with surprising frequency”: eCar March 2007
    - cyclone, storms, floods, electrical outage/major equipment failure, flue epidemic
  - Importance of research and requirements for BCP may be known at a local level may not be known at a UQ Level
  - In the event of a disaster how does UQ ensure the research can continue with minimal interruption
- Research should be appropriately stored, backed up
  - Examples: Heron Island and Offsite storage; laptops, filing rooms/cabinets and desk draws; backup devices



# Information Management

- Records Management/retention/disposal schedule & Research Data/Outputs (including emails)
- Information Data Strategy/Data Management Plan
  - Research, Research Teaching and Teaching and Learning information
  - Library/ITS
- Research Collaboration
  - Infrastructure and systems to support research collaboration



# Other Services

- Collaboration Tools
  - Evo, T&L evaluations of Video/Audio tools that may be useful in research collaboration
  - Wikis to support research
  - AAF
- Use of Blackboard for Research
  - Sharing of Information
  - Text based collaboration
  - Communities
  - External Access
- Campus Computing – Grid Computing
- Developing a System with Office of Research for the RQF



# Contacts

- Research and Teaching Technologies
  - Wilfred Brimblecombe/David Green
    - Advice with grants
    - Workflow
    - Storage/backup/archive requirements
    - Data Security
- Strategy/Standards
  - Elizabeth Coulter
- National/International Projects
  - Nick Tate, Patricia McMillan



Out of boxes and filing rooms  
Creating an environment where research data and outcomes  
are accessible, and preserved.

Increasing the value of your research