A Framework for University Research Data Management

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I fed all the data into the computer. The print-out reads
“How the hell should I know?”

What’s changed about research data!

Mandated preservation … for discoverability & accessibility
Authoring services
New publishing paradigms
Complex objects

More sources
New tools
More collaboration
Across disciplines

Urunità Cost falling
Total cost up
Constant stream
Real time discovery
Automated processing
Multi-media

Publish Research, Results, Dissemination, Curation and Preservation of Data

Research Proposal

Data Collection, Processing, Computation and Analysis, Experimentation, Conduct Research

Idea Discovery

University Services

More ICT involved
More data management
Plans to preserve
Why a framework?

### Policy
- Developing and adapting

### Timing
- When and how long

### Technology
- Support moving data evolving and connected

### Standards
- Ontologies, retention...

### Communities
- Disciplines, groups and participants

### Solutions
- Just-in-time provision vs facilitate
Storage and Networks

- Escalating demand
- Falling unit costs
- More alternatives
- Desktop to cloud
- Faster provision
- Tailored solutions

Delivery Services

- Persistent Identifiers
- PID Sequence important
- Data store independence
- Delivery tools
- Incoming and outgoing
- Real time or ....

Content Management

- Demand for sharing
- Core metadata
- Multi-group access
- Multiple identities
- DRM/IP issues – e.g. time
- Multiple solutions
- Archiving vs retention

Enterprise Applications

- Research management
- Standard Toolkits
- Access to corporate data
- Moving data/files around
- Internet as research tool
- Shared group folders??

Sources:
- http://www.ultimus.com/EnterpriseApplications/
Roles/responsibilities

- Shared responsibility
- Lack of control
- Ethical/risk dilemmas
- Security processes
- Technical architecture
- Information architecture

Some Targeted Project Activities for 2011

1. PIDS Machine to Machine
2. DOI Machine to machine
3. Virtual laboratories — Stem Cell and Medical Microscopy
4. Film Repository
5. General Data Registry Pilot
6. Grey Literature Collection
7. Policy Issues paper to Research Committee
8. Water Meter remote data capture
9. Data Fabric in SOE
10. Use of ARCS and QCIF Data Store
11. Enterprise Streaming Service Solution
12. Randomised Survey tool (Health)
13. Data Discovery Portals
14. Targeted network upgrades
Benefits of a framework

Start everywhere

QUESTIONS?

Source: http://bintiafrica.files.wordpress.com/2009/05/confusion.jpg


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