



## A Framework for University Research Data Management



**I fed all the data into the computer. The print-out reads "How the hell should I know!"**

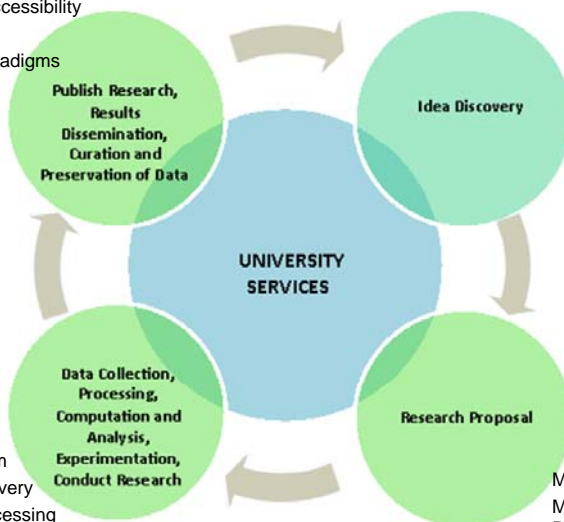
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Scholarly Information and Research, Division of Information Services

### What's changed about research data!

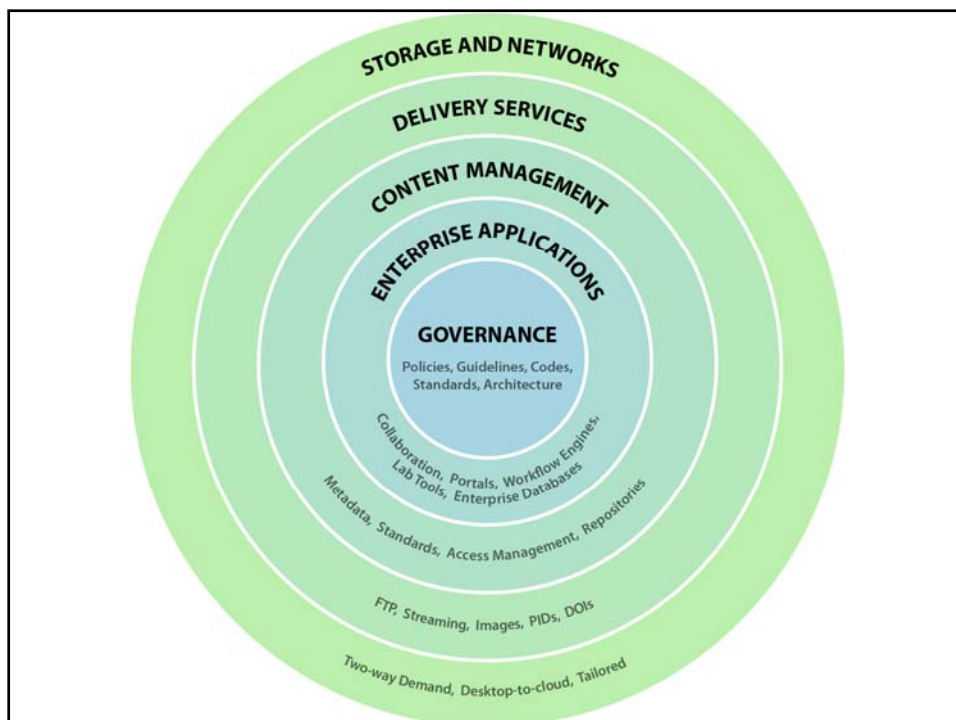
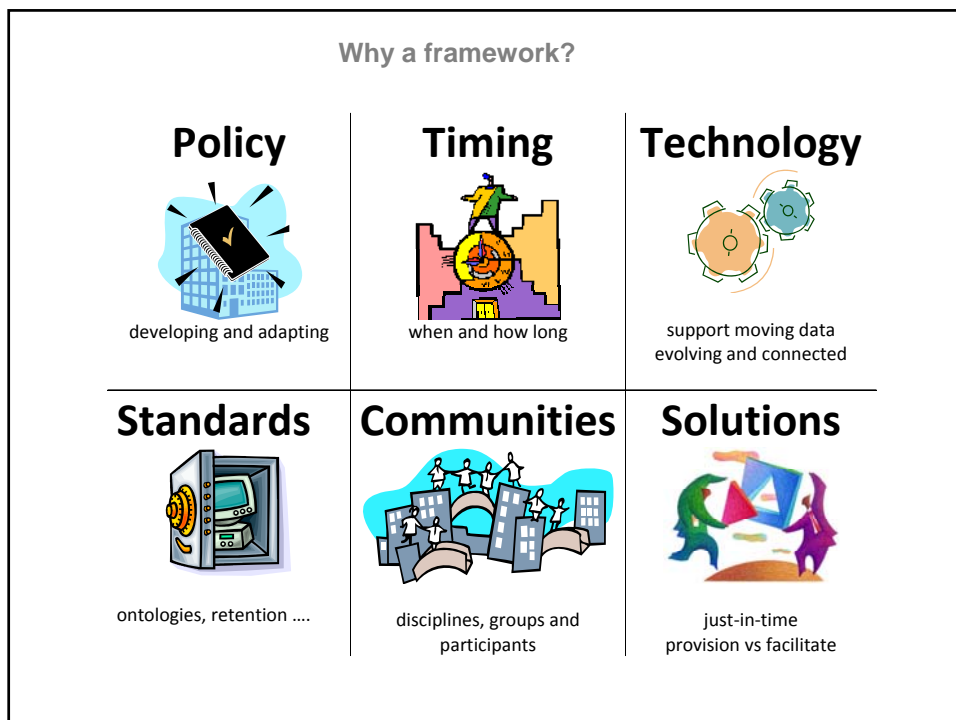
Mandated preservation ... for discoverability & accessibility  
Authoring services  
New publishing paradigms  
Complex objects

More sources  
New tools  
More collaboration  
Across disciplines



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

More ICT involved  
More data management  
Plans to preserve



### Storage and Networks



Escalating demand

Falling unit costs

More alternatives

Desktop to cloud

Faster provision

Tailored solutions

### Delivery Services



Source: <http://cheappouriers.com.au/delivery-service.php>

Persistent Identifiers

PID Sequence important

Data store independence

Delivery tools

Incoming and outgoing

Real time or ....

## Content Management



\*Source: <http://www.computerweekly.com/blog/open-source-ivision/raffesccocontentrepo.gif>

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

## Enterprise Applications



Source: <http://www.ulimux.com/EnterpriseApplications/>

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

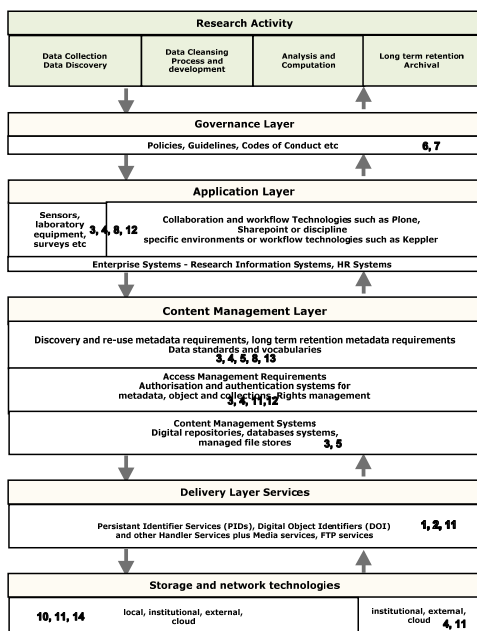
## Governance



"Make sure everything is done ethically. Within reason, of course."

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

Source: <http://filippagnoli.wordpress.com/2008/09/15/human-rights-cartoon-102-corporate-responsibility-good-corporate-governance-and-corporate-citizenship/>



### 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**

Completed    In progress    Not Started



### Benefits of a framework



Source: <http://bitofitrica.files.wordpress.com/2008/05/confusion.jpg>

Start everywhere

QUESTIONS?

Full paper: <http://ccaeducause1.caudit.edu.au/index.php/educause/cca2011/paper/view/147/184>

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