

UNSWLIBRARY

Becoming the authoritative source
taking repositories centre stage

Howard Amos

Taking repositories centre stage

- What do we mean by repository
- Why are we bothering
 - What services are required
- The environment they operate in
- A look at UNSWorks
- Where to next

What's a repository

- *Set of services for the management & dissemination of digital material*

(Lynch 2003)

- OA movement – where does that fit
- What about “open science”/“open data”
- How wide is our community
- How does it support the academic mission
- How does it support the researcher
- Where does the library fit

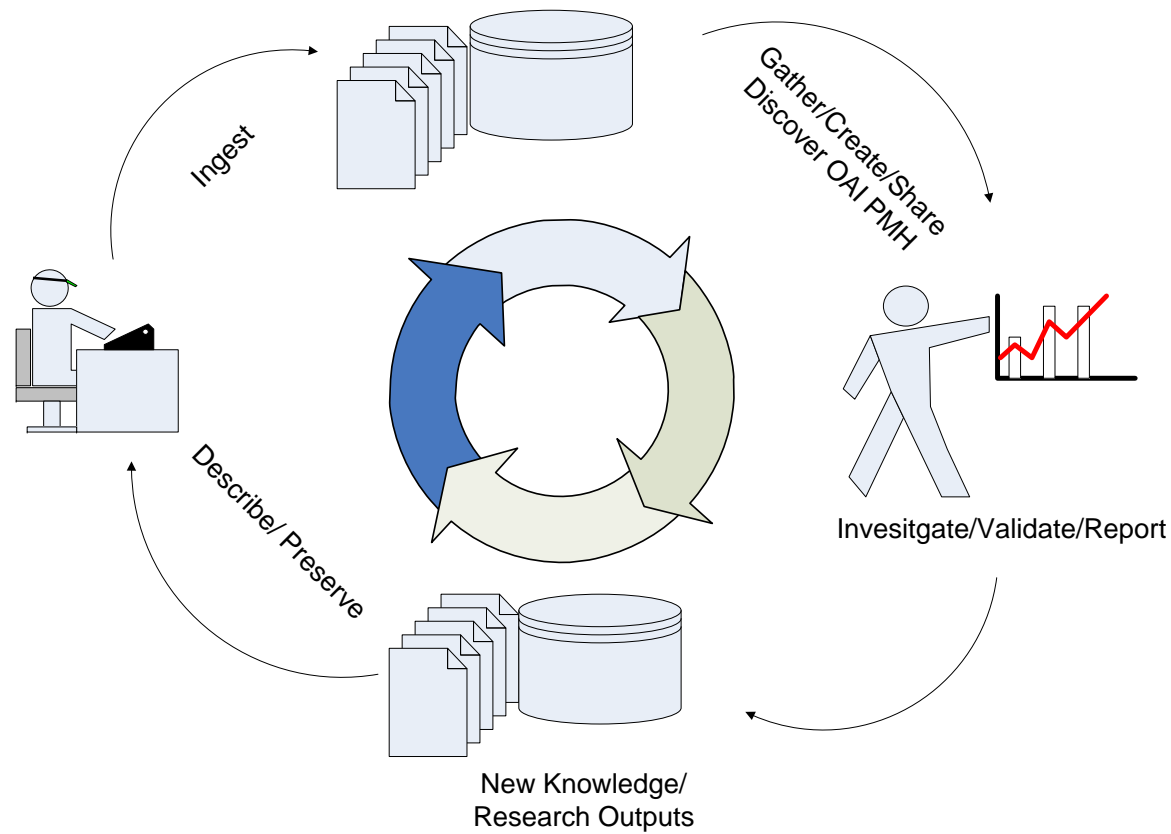
What does it need to do

- Hold research outputs
- Hold research data sets
- Make these discoverable
- Make them appropriately accessible
- Facilitate the use and re-use of material
- Integrate with the research process

What does this mean

- Not just familiar digital library services
 - It's also about making research data accessible
- Facilitate the use & re-use of material
 - Value grows as non-anticipated use of datasets grows
- Skills needed
 - Data management
 - Access controls
 - Describe for discovery

How it might work



How is it going to do this

- Core functions of an institutional repository
 - Material submission
 - Metadata application
 - Access control
 - Discovery support & Distribution
 - Preservation
 - Reporting

Core functions

- Material submission
 - Needs to be easy
 - Self submission as much as possible
 - Auto populate and control terms
 - Allow for common workflow
 - Submission on behalf of researchers

Core functions

- Metadata application
 - Transparent/ low intervention
 - Assist with identifying and applying schemas
 - Adhere to standards with validation
 - (MARCXML MODS DC DDI MatML etc. etc.)
 - Ease of maintenance

Core functions

- Access control
 - Meets local and federated needs
 - General and specific rules
 - Standards based SAML XACML etc

Core functions

- Discovery
 - Harvestable (OAI)
 - Google able
 - ORE able
 - Push
 - to subject based repositories
 - Research centre/researchers web sites
 - Pull
 - Other repositories/resources (Citeseer PubMed etc.)

Core functions

- Preservation
 - Describe object formats consistently
 - JHOVE
 - Ensure can still access them
 - AONS
 - Build and support persistency
 - Provide an enduring home

Core functions

- Reporting
 - Internal admin
 - Research census/strengths/competitive advantage
 - External reporting
 - HERDC (Aust.)
 - For the researcher
 - Part of the promotions process
 - Consistency of output/expose research depth
 - Contribute to bibliometric measures
 - Attract other researchers & HDR students

Who's responsible anyway

- Librarians aren't the drivers
 - We can contribute to defining needs
 - We support scholarly communication and the academic mission by supporting the research process
- Assist in devising/extend schemas to maximise discoverability
 - Enabling open science/open data
- Provide expertise in collection management
 - Data definitions for resources
 - Management of descriptive consistency
 - Data clean up/normalisation

Context is king

- Repository should be community-driven and community-focused
- To be sustainable needs community engagement
- To thrive needs to replace/improve existing admin services not add to them
- Could be institutional, knowledge area or cohort based

But it must be....

- What our Researchers find useful
 - Stewardship of material (including data sets)
 - Provide efficiencies
 - Gather once use many
 - Showcasing community member's work
 - Extend and expand exposure
 - Facilitate digital scholarly communication
 - Push material to where they want
 - Measure and report on content or usefulness
 - Integrate with other research tools & processes

There is a cost....

- What will our paymasters find useful
 - Ease of administration
 - Improve the University's profile
 - Remove duplication of effort
 - One place for research publications
 - Capture savings
 - Efficiencies from centralisation
 - Improve reporting and accountability

What else

- Making it accessible means managing it
 - Research data and data sets
 - Data a primary source material
 - Data as part of compound publications
- Managing these requires
 - New ontologies & consistent description
 - Cross discipline identifiers
 - Data structuring conventions
 - Search & retrieve protocols
- Cross border administration - a whole new ball game

Moving from the general to the specific

UNSWWorks
An initiative of the UNSW Library

UNSWLIBRARY

Australian environment

- Increased Accountability
 - HERDC
 - RQF/ERA

- Developing infrastructure for e-research
 - NCRIS
 - Platforms for collaboration
 - ANDS

UNSW Environment

- Strategic directions
 - Support collaborative research
 - Develop e-research capabilities
 - Improve bibliometric measures
 - Integrate administrative infrastructure
 - Remove duplication
 - Library's role:
 - provide UNSW researchers with a competitive advantage using digital tools and services

Beginnings

- 2004 the ARROW Project
 - With Monash, Swinburne and the National Library
- Now with 15 more Australian universities
- UNSW contributed to:
 - Standards
 - Workflows
 - Software solutions

UNSWorks development

- Development strategies
 - Clear well defined scope and purpose
 - For RESEARCH outputs
 - Maximise interoperability with other UNSW systems
 - Research Office
 - IARO
 - Ease of use/efficiencies
 - Capture one use many
 - Standards based architecture

UNSWorks requirements

- Priorities
 - HERDC/RQF/ERA
 - ADT upgrade
 - Working papers/research series
 - Supporting digitisation projects
 - Reduce reporting overheads for researchers
 - Build useful functionality
 - Bulk ingest
 - Importing data sets

UNSWorks

- Implementation
 - Expertise:
 - Employed a BA (important) and a developer
 - Played with lots of different types of content
 - Some we now are trying to lose
 - Identified different individual needs
 - Part of wider ARROW community
 - Network of implementers

UNSWorks

- What next
 - Support for major UNESCO Project
 - Dataset management
 - National Centre in HIV Social Research
 - Complex items
 - Research outputs combined with data
 - Access
 - AAF
 - ORE

The way forward

- Build skill sets
- Help define architecture/service framework
- Help identify standards and schema
- Work closely with researchers
 - Participate in the research process
- Break down Silo activities
- Define border responsibilities
 - Deploy/Build tools

Some other questions

- What infrastructure do we need
 - Who will design/build/run this
- What collection management practices do we need
 - What to keep, in what form, using what tools?
 - Selection, weeding, destruction etc.
- How do we preserve this new scholarly record