Taking the IR to the Cloud

Developing figshare for Institutions at Monash

Mark Hahnel & David Groenewegen
@MarkHahnel & @GroenewegenDave
The journey

- IDCC13 Amsterdam
- Buying tickets at Amsterdam Station
- Missing trains
- Conversation around figshare interface on Monash storage

http://www.amsterdamstay.com/images/cities/amsterdamstay/template/articles/Amsterdam%20Train%20Ticket%20Machines%20Amsterdam-train-ticket-machine.jpg
What Monash wanted for researchers

• Manage and control their research data
• Private and collaborative storage spaces
• Securely stored in Monash storage
• Accessible from anywhere
• Make research outputs citable, sharable, discoverable
• Data can be discoverable without being open
Challenges

- Different users - library admin vs end users
  - Trying to use one tool for multiple needs
- Metadata: meeting in the middle
  - how to keep it simple, but richer if we wanted it to be
- Licenses - give and take

https://i.imgur.com/tVjLxnv.jpg
North America
- OSTP Memo
- NIH, NSF, NOAA, SI, and more...
- Tri-Agency Open Access Policy
- FASTR
- Other Agency/Funder Policies
  - ie: Gates, Moore, Sloan, NEH

UK/Europe
- RCUK, EPSRC, and more
- Horizon 20/20
- OpenAIRE
- Institutional policies and mandates

Australia
- ARC – data management plan expectation from researchers
- Australia National Data Service – supporting the sector, Institutional Data Management Frameworks
What we each brought to the party

<table>
<thead>
<tr>
<th>Monash</th>
<th>figshare</th>
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<td>• 10 years repository experience</td>
<td>• Existing infrastructure</td>
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<td>• Metadata expertise</td>
<td>• Researcher View</td>
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<td>• Regional infrastructure expertise</td>
<td>• People using the platform</td>
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Both

A similar vision of what this all should look like
A willingness to work together and compromise in order to get there
Private Research, Shared Research, Publication, and the Boundary Transitions

**Private Domain**
- Laboratory Information Management System/Research Management System
- May link to data objects stored in Research Data Store
- This domain involves the core research team as they undertake the research, usually within a single institution. Access is often tightly controlled as hypotheses and analyses are developed.

**Migration Process**
- Authorised by research team leader
- Performed by research team IT support
- Involves object selection, migration, assignment of access controls, augmentation of metadata

**Shared Domain**
- Collaboration Support System (Plone, TWiki, Sharepoint)
- May link to data objects stored in Collaboration Data Store
- This domain involves researchers outside the core team as they collaborate with colleagues, often across institutions. Access is more open, but not everything is shared.

**Public Domain**
- Institutional document repository
- May link to data objects stored in Public Data Store/Repository
- This domain involves the public sphere (publication in the sense of making public). Access usually open to all.

What happened?

• Meetings
• Compromises
• Wish Lists
• Refined wish list/development strategy
• Iterations
• Accidental Developments
  • Began outreach
  • More iterations
• New functionality ideas
  • Launch

http://london-underground.blogspot.nl/2013/01/tube-map-in-circles.html
Laying tracks through the institution

- Delays in getting the back end set up
- Going through the IT governance procedures, to make sure it would be understood and supported
- Privacy (how much data can we give to figshare)
- Security
- Terms and Conditions
- Branding that works in the context of broader figshare – Monash but not JUST Monash

Towards the Research data ecosystem

DATA CREATION
Australian Synchrotron
FEI Titan Krios
cryo-electron microscope
Leica AF6000 LX
Leica SP5 5 Channel
Leica SP5 Multiphoton
Nikon C1 Inverted
Nikon C1 Inverted 2
Nikon C1 Upright
Olympus Cell R
Olympus FV 1000
Olympus Provis
Hitachi H7500 TEM
Nikon A1R AMREP
Nikon A1R ACBD
and others

TRANSITION
- Sorting
- Managing
- Collecting
- Storage

PUBLIC & FINDABLE
- Imaging Locus
- Monash Repository
- monash.figshare
- figshare.com
- Monash.pure
- Research Data Australia
- Store.Monash
- Store.Synch
- Protein Data Bank

MyTardis
monash.figshare
- Digital Object Identifiers
- ORCID
Research Data Store Monash
Research Data Australia

MONASH University

figshare
What we have now

- Live instance - monash.figshare.com
  - 1000s’ of files
  - Combination of user loaded data and PLOS records
- Lots of active users
- Promotion – trying to get the name out there
- Focus on the influencers
What we want to do next

• More linkages:
  • Research management system
  • Other research data systems (myTardis, LabArchives)
• Multiple displays and search points – beyond the single repository

Where we are now...

http://tasmaniantimes.com/images/articles/c02d9a23a1a3afcdada36a4d6a7fa8ea35.jpg
Thank you :)

David Groenewegen  
@GroenewegenDave  
david.groenewegen@monash.edu

Mark Hahnel  
@MarkHahnel  
mark@figshare.com