

# Towards a mature, multi-purpose repository for the institution...

*Chris Awre, Simon Lamb, Richard Green*

*Open Repositories 2012, Session RF6*

## A vision

“I believe that a mature and fully realized institutional repository will contain works of faculty and students – both research and teaching materials – and also documentation of the activities of the institution itself in the form of records of events and performance and of the ongoing intellectual life of the institution. It will also house experimental and observational data captured by members of the institution that support their scholarly activities.”

*Cliff Lynch*

*“Institutional Repositories: Essential Infrastructure for Scholarship in the Digital Age”*

*ARL, no. 226 (February 2003): 1-7.*

*<http://www.arl.org/resources/pubs/br/br226/br226ir.shtml>*

## A vision (as interpreted by Hull)

“I believe that a mature and fully realized institutional repository will contain works of faculty and students – both research and teaching materials – and also documentation of the activities of the institution itself in the form of records of events and performance and of the ongoing intellectual life of the institution. It will also house experimental and observational data captured by members of the institution that support their scholarly activities.”

Cliff Lynch

*“Institutional Repositories: Essential Infrastructure for Scholarship in the Digital Age”*

ARL, no. 226 (February 2003): 1-7.

<http://www.arl.org/resources/pubs/br/br226/br226ir.shtml>

# An institutional repository

One institution = one repository?

- Repositories are infrastructure
  - Maintaining infrastructure requires resource, which we need to minimise to justify costs in the long-term
- Content doesn't sit in silos
  - One repository facilitates cross-fertilisation of use
- Integration with one system
  - Embedding the repository means linking to one place

## Five principles

- A repository should be content agnostic
- A repository should be (open) standards-based
- A repository should be scalable
- A repository should understand how pieces of content relate to each other
- A repository should be manageable with limited resource

## Five principles (leading to our implementation)

- Fedora is content agnostic
- Fedora is (open) standards-based
- Fedora is scalable
- Fedora understands how pieces of content relate to each other
- Fedora is manageable with limited resource
  - With help from the community



# Work of faculty and students

## Faculty

- Disseminate research outputs / learning materials
- Manage research data
- Archive event outputs

## Students

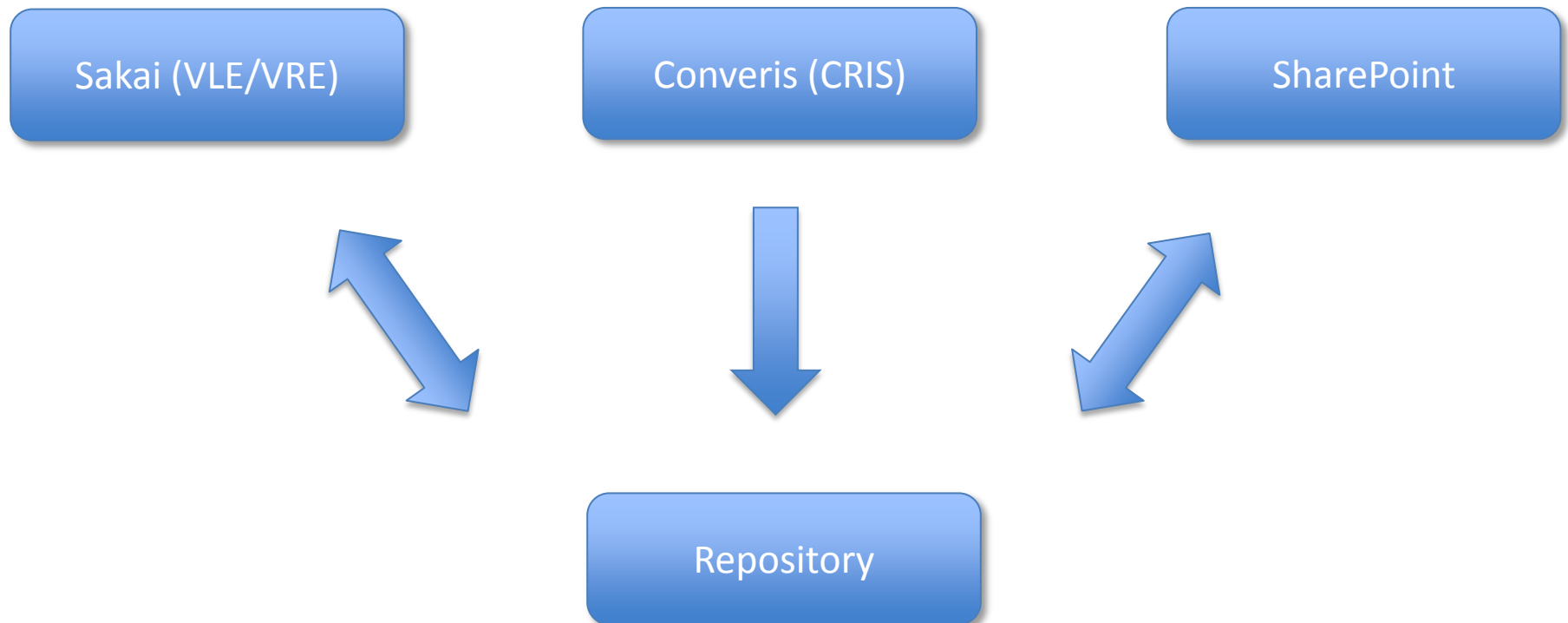
- Disseminate theses / dissertations
- Provide exam papers
- Student handbook archive

Granular security required to manage these different activities

The repository has been tied into our institutional CAS system

Materials can be open, internal, or restricted to user groups / users

# Research and teaching materials





# Records of events and performance

Creative writing – discussions with authors

Inaugural lectures

University Learning & Teaching Conference

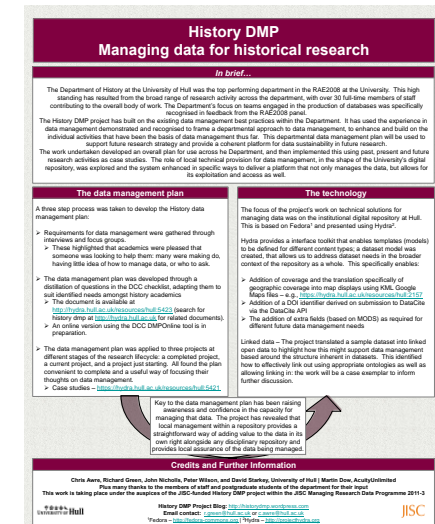
Campus-based e-publishing



Integration with Open Journal Systems to enable archiving of publications

# Experimental and observational data

- Tiptoeing into data management
- JISC History DMP project
  - Identified ways to encourage and facilitate the planning of data management
- EPSRC roadmap
  - Highlighting ways forward to make the most of the data we produce



# Taking the holistic view





## Hydra is a Repository Solution



Hydra is a repository solution that is being used by [institutions on both sides of the North Atlantic](#) to provide access to their digital content. Hydra provides a versatile and feature-rich environment for end-users and repository administrators alike.

## Hydra is a Community



Hydra is a large, [multi-institutional collaboration](#). The project gives like-minded institutions a mechanism to combine their individual repository development efforts into a collective solution with breadth and depth that exceeds the capacity of any single institution to create, maintain or enhance on its own. The motto of the project's partners is "if you want to go fast, go alone. If you want to go far, go together."

## Hydra is a Technical Framework



Hydra is an ecosystem of components that lets institutions deploy robust and durable digital repositories (the body) supporting multiple "heads": fully-featured digital asset management applications and tailored workflows. Its principle platforms are the Fedora Commons repository software, Solr, Ruby on Rails and Blacklight. See how you can [get started](#).

## Hydra is Open Source Software



Hydra software is free and open source, available under an Apache 2 license.

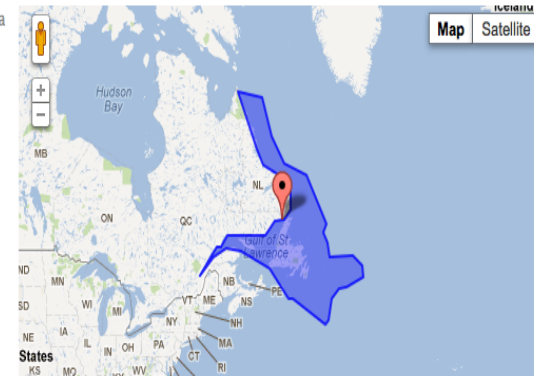
## CLIF : moving repositories upstream in the content lifecycle


Published in Journal of digital information, 2012  
ISSN (Electronic) 1368-7506  
Publisher Texas Digital Library  
Volume 13  
Issue 1

 **Article**  
(3 MB pdf)



## HMAP Dataset 06: Newfoundland, 1675-1698



 Newfoundland-Labrador Shelf - kml file  
(499 KB vnd.google-earth.kml+xml)  
[View as map](#)



# Organise the content

-----Processed HMAP Datasets

----Law

----Scarborough School of Education

--Campus Based Publishing System (CBPP)

----cbppplatform objects

----hull-cbpp objects

--Committee Section

----General documents

--Datasets

----Domesday

-----Databases

-----Documentation

-----Phillimore appendices

-----Phillimore county introductions

-----Phillimore county notes

-----Statistics notes

-----Translation

----English

-----Repertorium of Middle English Prose Sermons

----History of Marine Animal Populations (HMAP)

-----Processed HMAP Datasets

## Structural sets

### Larkin Centre events

Resource type Display set

Description A collection of recordings made at public events organised by the University's Larkin Centre featuring interviews with modern writers.



### History of Marine Animal Populations (HMAP) datasets

Resource type Display set

Description The HMAP datasets are a research resource comprising of information derived largely from historical records relating to fishing catches and effort ...



### Skills for scientists : employability resource pack

Resource type Display set

Description This pack is a structured resource that can be used as a complete module or as individual exercises to support other career-based activities. The a...



### Domesday dataset

Resource type Display set

Subject Domesday Book

Description A collection of data about and around the 1086 Domesday book. The dataset was originally lodged in the repository by Professor John Palmer in 2008....

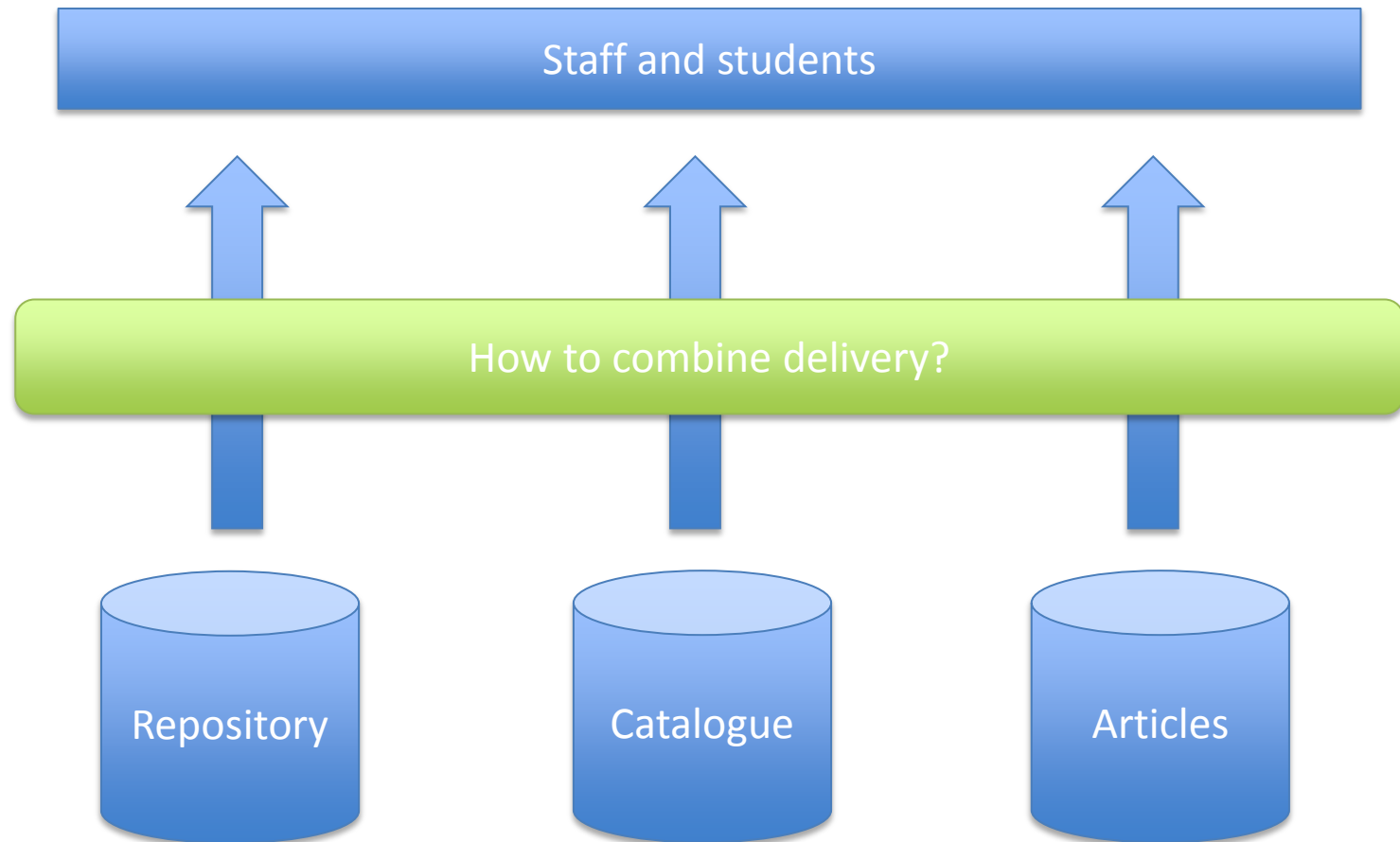


## Display sets

# Fulfilling institutional strategy

- ✧ Impact globally through internationalisation
- ✧ Growing research reputation
- ✧ Inconnectedness of research and teaching
- ✧ Enhancing the learning environment
- ✧ Fostering innovation
- ✧ Ensuring academic sustainability

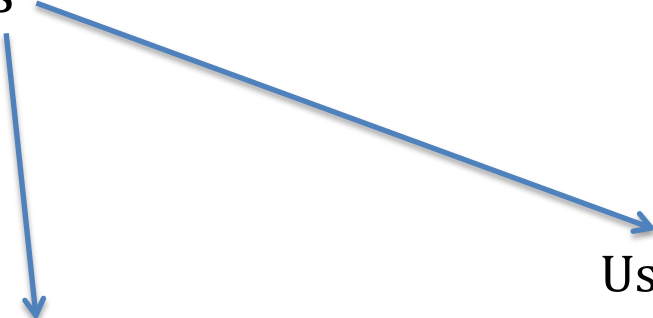
# Onwards... Library search integration





## Onwards... Digital archives management

- Archives colleagues took part in Mellon-funded AIMS project
  - An Inter-institutional Model for Stewardship of born-digital collections



Developing practice for archivists in dealing with born-digital collections through events and advocacy

Using Hydra to develop tools that help put the model into practice

## Finch outcomes

- Whatever you may think of the Finch Report (Government report on expanding access to research publications)
  - It did highlight the valuable role repositories can play in providing supporting infrastructure
- It focused on the need to have a way of managing:
  - Different types of grey literature
  - Theses/dissertations
  - Links between research data and publications
  - Preservation
- Looks like an opportunity!

## Towards...

Our repository is still a work in progress - probably always will be

...it is maturing

We have been able to apply it to a range of purposes

It is a repository for the institution as a whole

# Thank you

Chris Awre – [c.awre@hull.ac.uk](mailto:c.awre@hull.ac.uk)

Simon Lamb – [s.lamb@hull.ac.uk](mailto:s.lamb@hull.ac.uk)

Richard Green – [r.green@hull.ac.uk](mailto:r.green@hull.ac.uk)

Hydra at Hull – <http://hydra.hull.ac.uk>

Hydra Project – <http://projecthydra.org>

