Directions for Digital Repositories

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http://www.flickr.com/photos/coderkind/408839789/
The Path Ahead

Institutional Repositories in Europe & the UK

Current Research Information Systems

Open Access, Open Data and OER

Concluding Remarks
Decades of Achievement

<table>
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<th>Internet (packets)</th>
<th>Web (documents)</th>
<th>Repository (preservation)</th>
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What have we achieved with this multilayered platform in the last decade?
What scope have we for achieving new things?
Institutional Repositories in UK & Europe

- National differences
  - Centralised (FR)
  - Independent (UK)
  - Co-ordinated (NL)

- In UK, JISC funding synchronises community activity
  - VRE, e-Learning, Managing Research Data, Repository Enhancement, Community Content

- UK IRs typically chase embedded processes via subject liaison librarians
  - moving to “deskside support” model
UK Institutional Repository Support

• Repository Support Project (RSP)
  – Provides training and support for repository staff
  – Helped set up repositories for institutions

• UK Council of Research Repositories (UKCoRR)
  – Independent organisation of repository managers
  – Unfunded
  – 197 members
Open Access vs Research Assessment?

• In UK, high proportions of public-funded research
  – National research assessment processes
  – All universities required to account for research outcomes / quality

• Repositories find roles in cataloguing research outputs
  – Embeds them at the heart of institutional infrastructure ✔
  – Diverts (temporarily) from Open Access goals ✗
Openness Agendas

• Open Access to Research Outputs
  – Supported by all Research Councils
  – Heavily promoted by JISC

• Open Research Data
  – Move from closed VRE / EScience environment
  – To open (able) data

• Open Educational Resources
  – Move from “Learning Objects” to “Learning Resources” via Open Access practice and methodology
  – Move from closed VLEs to sharing resources
  – All underpinned by active preservation and curation policies and workflows
Open Scientific Data

A repository of chemical data. Scientific, not bibliographic, metadata.

JISC EBank project (2003)

Run by the UK Crystallographic Service and latterly an international consortium.
Open Research

- JISC myExperiment
- Capturing
  - Workflows
  - Data
- Comes from EScience/Cyberinfrastructure
- But uses Web2 as design principle
Data Management

- JISC Institutional Data Management Blueprint (IDMB)
- Campus-wide study to produce a 10-year plan
Open Arts Data

• **JISC KULTUR** consortium of universities and art colleges

• Capturing performance, practice, exhibition, evidence
  - In a *no publication* environment

*Capturing artistic experimentation & performance vs capturing scientific experimentation*
Open Educational Resources

- JISC EdSpace
- IEEE LOM metadata vs
- Web 2, informally tagged
- Sufficient for discoverability and usefulness
- That includes *me!*

JISC Jorum (full LOM) & JorumOpen (lightweight OA approach, DSpace)
Directions for Researchers

- Open Access, Open Data, Open Educational Resources
  - Web Technology joins the High Moral Ground
- vs the established economic model for ensuring continuity of information production
  - trading of privately held information through subscription products such as journals or magazines
ClimateGate

- Climate Research Unit at UEA refused to provide research data upon which its publications had been based.
• EuroCRIS organisation promotes systems that deal with whole research infrastructure
CRIS: Current Research Info Systems

• CERIF standard data schema interoperates between different systems

Repositories should support CERIF
• CRIS pulls together all research & admin information to create a unified view about a researcher’s involvement
• Comes from admin
• Promoted by REF
CRIS Dichotomy

CRIS components attempt to provide service to research management and administrators

Repository attempts to reach researchers and public, and provide a service to management
Admin/CERIF View of A Project

- Grant ID / Funder / Amount
- Start date, End Date
- Investigators
- Budget breakdown
Researchers’ View of A Project

- Project name
- Project aims / objectives
- Project Logo / Website / Blog
- Press releases
- News clippings
- Funder
Pulling Together

- JISC Open Impact
- Repository of High Impact Research
- Brings together staff, outputs, projects
  - Repository acts as a CRIS
  - Holds admin data
  - Collects outputs and evidence
In Conclusion: What Can We Do?

- What are digital libraries?
- What are repositories?
- What is the Web?

Promote the study of the web and its role in society
Digital Libraries = Information Science + Social Network Science + Praxis

• The Web isn't a thing but an activity
  – the creation of a network of information by a network of individuals.

• The Web wasn't invented by Tim Berners-Lee,
  – it is being invented by all of us as we gradually adapt our tools and change our practice.

The web both *shapes* and *is shaped by society*. There is a gap between the ‘script’ proposed by a technology and what it actually becomes in practice.
Librarians Mediating New Practice

Not just enforcing historic norms, but stimulating new practice to emerge

• Copyright
• Openness
• Intellectual Property
• Privacy
• Creativity
• Science 2.0