
Conway, Paul

<http://hdl.handle.net/2027.42/64941>
http://hdl.handle.net/2027.42/64941
SI 615 Digital Libraries Seminar

Week 10 – Institutional Repositories and Preservation
Themes of this week

- Deep Blue at Michigan
- Preservation perspectives
- Metadata
- Auditing
- Incentives
- Institutional content
Thirteen Ways ... Preservation

Themes
Deep Blue

Perspectives
Metadata
Auditing
Incentives
Content

- ... an ongoing activity
- ... a set of agreed outcomes
- ... an understood responsibility
- ... a selection process
- ... an economically sustainable activity
- ... a cooperative effort
- ... an innocuous activity
- ... an aggregated or disaggregated service
- ... a complement to other library services
- ... a well understood process
- ... an arm’s length transaction
- ... one of many options
- ... a public good
Excuse me... fallacies

Digital preservation is very expensive [because]
File formats become obsolete very rapidly [which means that]
Interventions must occur frequently, ensuring that continuing costs remain high.
Digital preservation repositories should have very long timescale aspirations,
'Internet-age' expectations are such that the preserved object must be easily and instantly accessible in the format de jour, and
the preserved object must be faithful to the original in all respects.
What is a library, anyway?

“That libraries may be becoming obsolete is, to some degree, plausible, not because they are losing some kind of competition with the Internet for eyeballs or compellingly superior content, but rather because libraries may be in the process of abandoning their role as collection builders and managers.”
Auditing Archives

Themes
Deep Blue
Perspectives
Metadata
Auditing
Incentives
Content

- Organization
- Repository functions, processes, and procedures
- Designated community and useability of information
- Technologies and technical infrastructure

TRAC http://www.crl.edu/content.asp?l1=13&l2=58&l3=162
Incentives to Preserve


- Roles
- Incentives
- Organization

Incentives to Preserve

Roles in Preservation

OAIS: Producer – Manager – Consumer

Economics:
Rights Holder (R) – Archive (A) – Beneficiary (B)

authority + willingness + need = incentive to preserve
Incentives to Preserve

Digital preservation is an aftermarket service.

- **Centrifugal**: \((R) - (A) - (B)\) – JStor
  - Roles spread out among separate entities

- **Supply-side**: \((R - A) - (B)\) – Elsevier self-archiving
  - Willingness and authority are combined

- **Demand-side**: \((R - B) - (A)\) – I-Vault!
  - Authority and need are combined

- **Consolidated**: \((A - B) - (R)\) – KB / Elsevier deal
  - Need and willingness are combined

- **Centripetal**: \((R-A-B)\) – Institutional repository
  - Roles compressed to a single entity
Duke Incentive Use Cases

• (R) – (A) – (B) – Library-managed repository
  – Roles spread out among separate entities

• (R – A) – (B) – Center for Documentary Studies
  – Willingness and authority are combined

• (R – B) – (A) – Duke University Photographer
  – Authority and need are combined

• (A – B) – (R) – Duke University Press
  – Need and willingness are combined

• (R-A-B) – Center for Applied Genomics & Technology
  – Roles compressed to a single entity
Incentives to Preserve

Overcoming disincentives to preserve

• Positive externalities
  – Subsidies to rights holder or archive

• Free-riding
  – Exclude via subscription
  – Deny access to non-contributors

• Variations in demand
  – Offer various levels of preservation service @ varying costs
Localized Incentives

Universities are diverse organizations.
• Many stakeholders with competing interests (R)
• Many possible technology players (A)
• People who benefit to different degrees (B)

What if…
• Multiple relationship sets exist locally
• Incentives can be modeled as a closed system
• Multiple incentive arrangements could co-exist
Interdisciplinarity
119 Duke University Research Centers

Arts & Sciences (total 74)

Professional Schools (total 53)

Medical Centers (total 51)

28
27
14

9
10
2

30
Affiliation

22
15
82

Total = 119
Research Center Outputs
Preliminary Website Analysis

Available on the Web

Total = 119
Thank you!

Paul Conway
Associate Professor
School of Information
University of Michigan
www.si.umich.edu