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SI 615 Digital Libraries Seminar

Week 10 – Institutional Repositories
and Preservation

Themes of this week

Themes

- 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

Themes

Deep Blue

Perspectives

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Content

- 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?

Themes

Deep Blue

Perspectives

Metadata

Auditing

Incentives

Content

“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

Brian Lavoie, “The Incentives to Preserve Digital Materials: Roles, Scenarios and Decision-Making,” OCLC Office of Research, April 2003.

- Roles
- Incentives
- Organization

Removed image of
Brian Lavoie

<http://www.oclc.org/research/projects/digipres/incentives-dp.pdf>

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

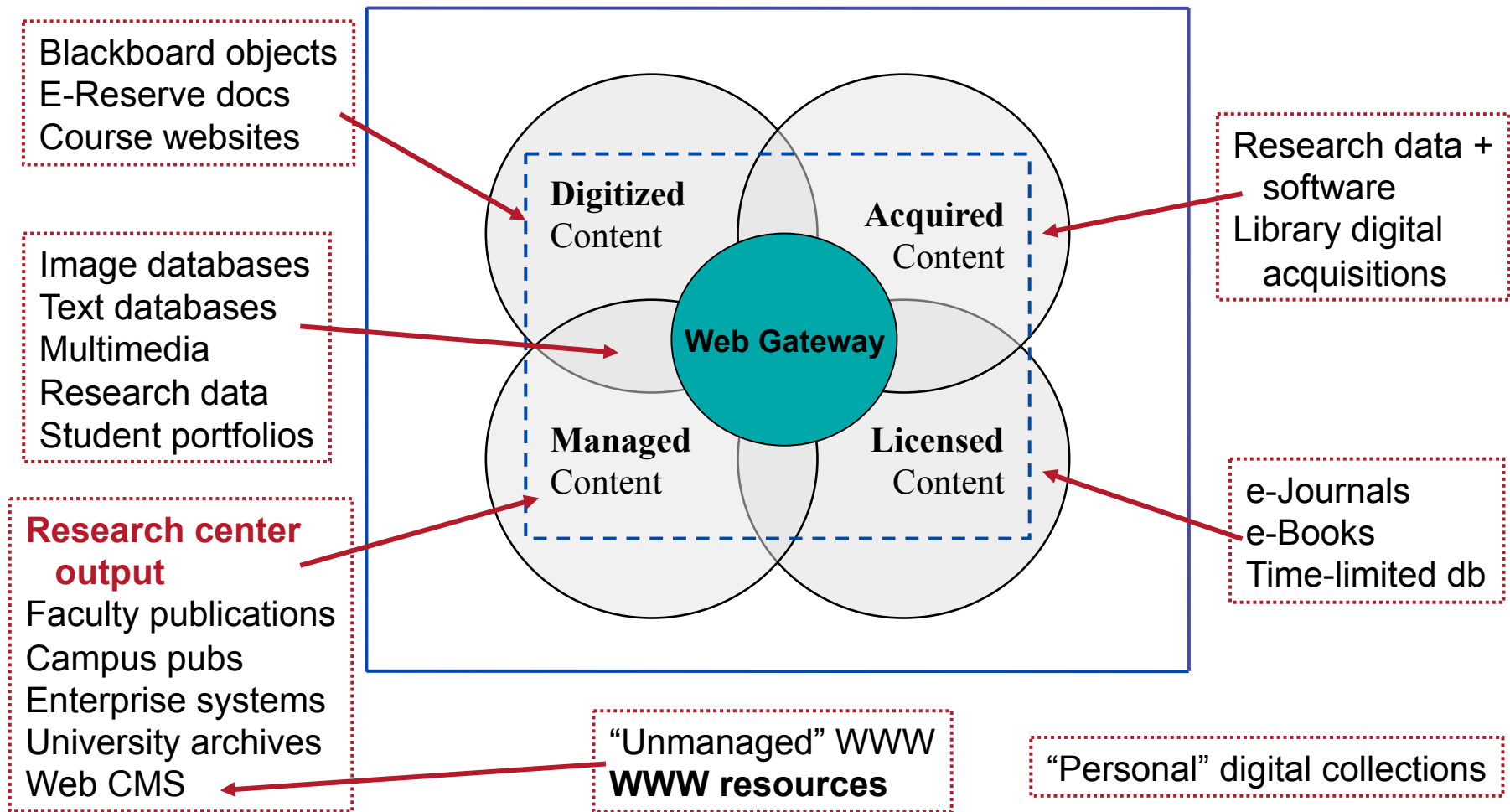
Universities are diverse organizations.

- 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

Content Landscape

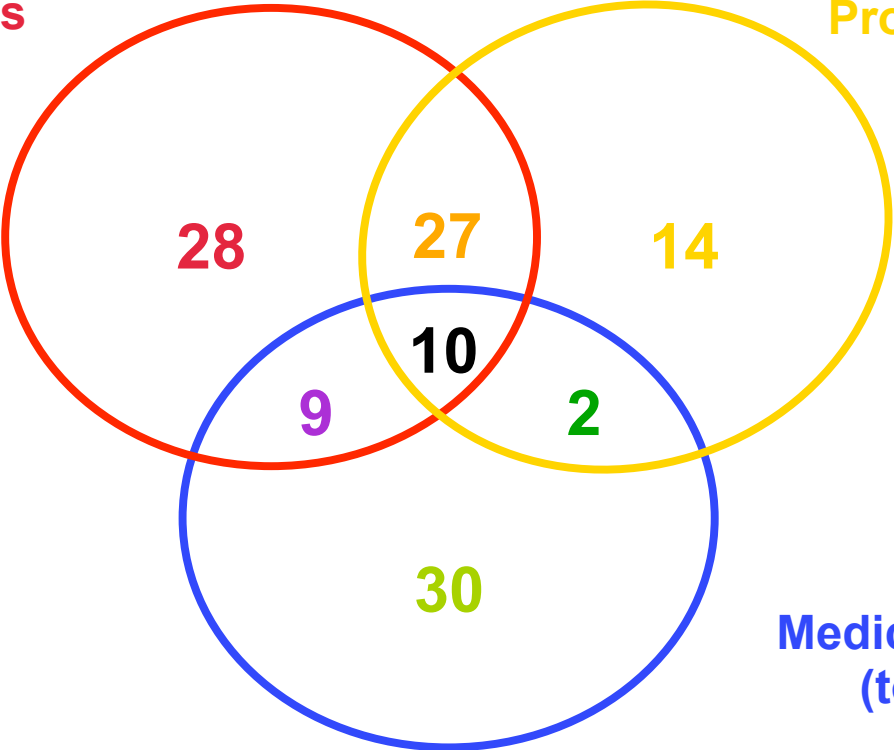


Interdisciplinarity

119 Duke University Research Centers

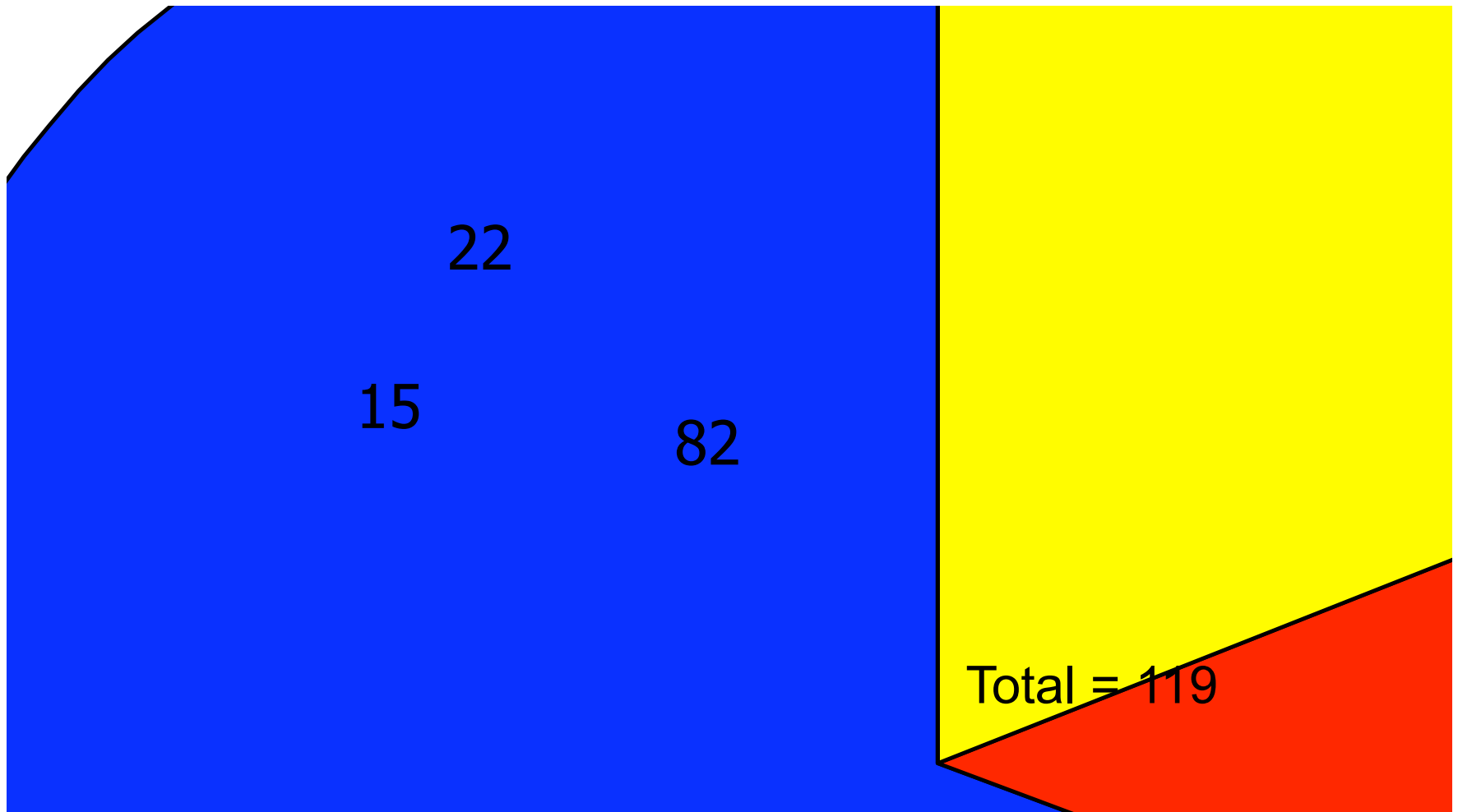
Arts & Sciences
(total 74)

Professional Schools
(total 53)



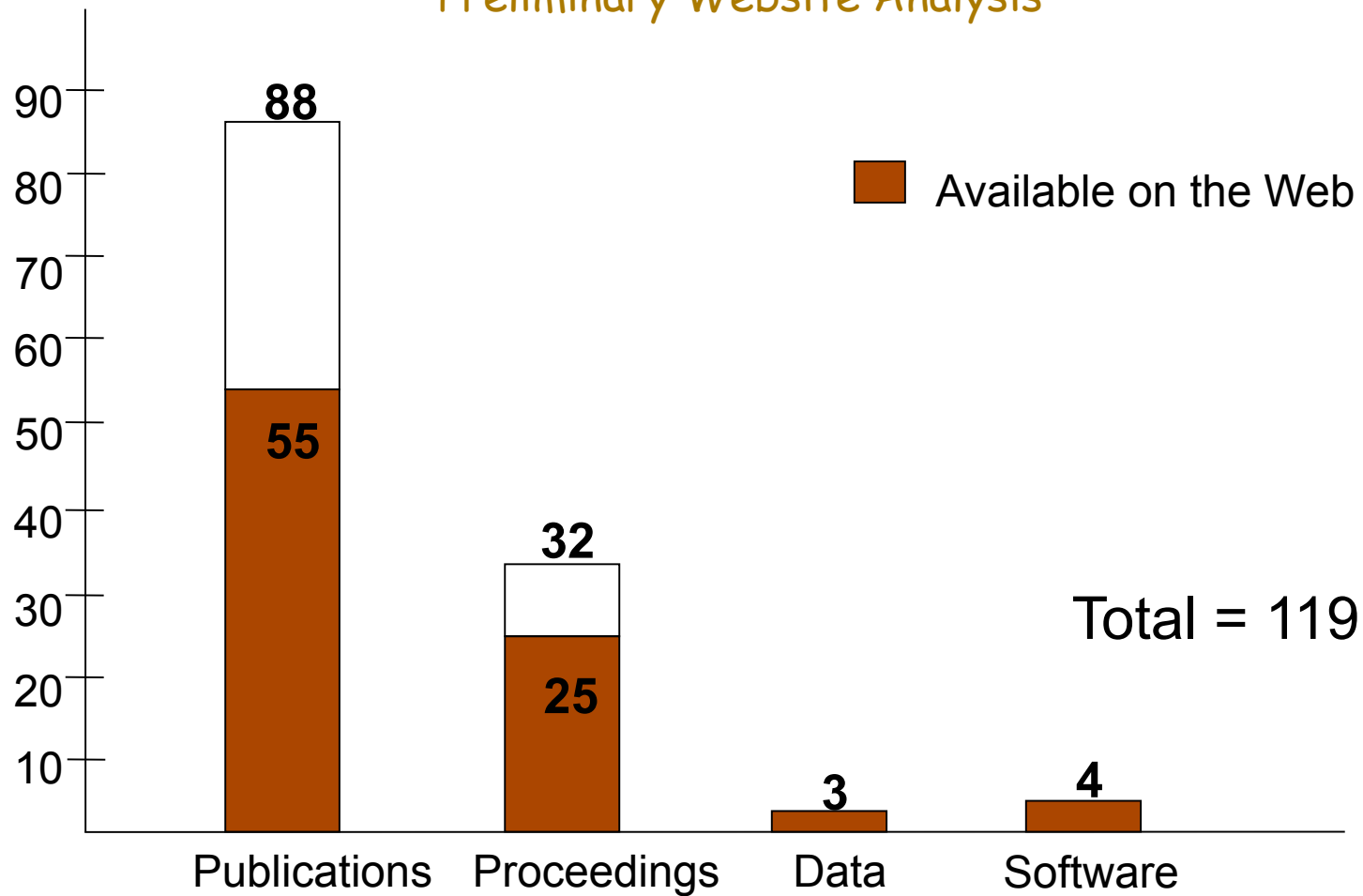
Medical Centers
(total 51)

Affiliation



Research Center Outputs

Preliminary Website Analysis



Thank you!

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