Sustainable Collection Management: Enabling the Transformation of Libraries

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Topics

• Sustainable Collection Services
• Libraries Evolving
• Learning-Centered Thinking
• Practical Considerations
• The Facilitated Collection
• Enabling Transformation
• Impact – Group Projects
Sustainable Collection Services
Sustainable Collection Services (SCS)

SCS: Helping libraries manage and share print monographs since 2011

- **2011**: SCS Founded
  - Data-driven deselection for print monographs

- **2015**: SCS Joins OCLC
  - Access to new data and resources

- **2016**: Group Functionality
  - See combined holdings as a single shared collection

- **2017**: Journal Deselection
  - (Preliminary title-level support)
Library Projects

Individual Projects
- Indiana University*
- Arizona State University*
- Oregon State University*
- Eastern Washington University*
- Michigan State University
- Johns Hopkins University
- Iowa State University
- Boston College
- MIT Libraries
- McGill University

Group Projects
- University System of Maryland & Affiliated Institutions (USMAI)*
- Statewide California Electronic Library Consortium (SCELC)*
- Eastern Academic Scholars’ Trust (EAST)
- Michigan Shared Print Initiative (MI-SPI)
- Council of Prairie and Pacific University Libraries (COPPUL)
- Washington Research Library Consortium (WRLC)
- Academic Libraries of Indiana (ALI)

* = Current Project
Libraries Evolving
Evolution of the Library Paradigm

**Reader-centered:**
from monastic scriptorium & library; dominated by light & reading tables

**Book-centered:**
local access; unrelenting need for shelving

**Learning-centered:**
digital content; information commons; learning spaces; information literacy

“Libraries built as late as the 1890s were, like those in Lunt and Altgeld Halls dominated by reader spaces, not by shelving.”
- Scott Bennett, Libraries and Learning

“Book space, not reader space, came to dominate the library [Altgeld Hall] over a period of just 50 years.”
- Scott Bennett, Libraries and Learning

“In the twenty-first century, we need constantly to affirm that the most important educational function of physical library space is to foster a culture of intentional learning.”

- Scott Bennett

Ithaka 2016 Library Survey

Priorities 6 – 26 omitted in this screenshot
Learning-Centered Thinking
2017 NMC Horizon Report

Source: NMC Horizon Report: 2017 Higher Education
Screenshots: Pages 1, 3
http://cdn.nmc.org/media/2017-nmc-horizon-report-he-EN.pdf
Advancing Cultures of Innovation

Supporting the exploration of new ideas across learning institutions
(Horizon, 10)

University recognized as one of the most interesting makerspaces in America
University libraries offer makerspaces rich with possibility by providing new technology and tools that enable design, prototype and creation

University of Nevada Reno’s Makerspace
Screenshot: NevadaToday

3D Printer Map created by Amanda Goodman
Screenshot: 3D Printers in Libraries
Deeper Learning Approaches

“…content that engages students in critical thinking, problem solving, collaboration, and self-directed learning.” (Horizon, 12)

Syracuse University’s Blackstone Launchpad
Image: Blackstone Launchpad Facebook page

Charleston Fast Pitch Winner – 2016
Screenshot: SU Campus & Community
Redesigning Learning Spaces

Educational settings designed for project-based interactions and equipped to support technology. (Horizon, 16)

University of Iowa Learning Commons

NCSU Libraries’ Teaching & Visualization Lab
Screenshot: NCSU Libraries website

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Practical Considerations
Declining Print Book Circulation (NCES)\(^1\)


- 2002: 188,601,008
- 2004: 200,203,943
- 2006: 187,236,440
- 2008: 138,102,762
- 2010: 136,003,396
- 2012: 116,891,247
### Space Requirements: Monographs

<table>
<thead>
<tr>
<th>Volumes</th>
<th>Square Feet</th>
</tr>
</thead>
<tbody>
<tr>
<td>100,000</td>
<td>20,000</td>
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<tr>
<td>250,000</td>
<td>45,000</td>
</tr>
<tr>
<td>500,000</td>
<td>80,000</td>
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<tr>
<td>1,000,000</td>
<td>150,000</td>
</tr>
<tr>
<td>2,700,000</td>
<td>405,000</td>
</tr>
</tbody>
</table>


Equivalent to seven US football fields.
Maintenance Cost - Monographs

- $4.26 / volume in central stacks
- $0.86 / volume in high-density facility

Annual Cost of 100,000 Monographs

Central stacks
$426,000 per year

High-density off-site storage stacks
$86,000 per year
Print Monograph Redundancy is Significant

Cloud-sourcing Research Collections: Managing Print in the Mass-digitized Library Environment

Figure 8. System-wide distribution of library holdings for titles in HathiTrust Digital Library (June 2010)
Finding the Right Balance
Case in Point 1: ASU Renovation

1. Screenshot: Inside Higher Ed
2. Screenshot: EAB Daily Briefing
3. Screenshot: ASU Now
Case in Point 2: SCS Group Projects

EAST Group Project
6M+ Retention Commitments

MI-SPI Group Project
400k+ Retention Commitments
The Facilitated Collection
Group Projects and Shared Print

Not Scotch, but Rum: The Scope and Diffusion of Presence in the Publishing Marketplace

Brian Lavoie
Research Scientist
OCLC Research

Right-scaling Stewardship: A Multi-scale Perspective on Cooperative Print Management

Constance Malpas
Program Officer

Brian Lavoie
Research Scientist

Understanding the Collective Collection: Towards a System-wide Perspective on Library Print Collections

By Lauren Dempsey, Brian Lavoie and Constance Malpas
with Lyn Gilgott-Converse, Roger C. Scherfield, JD Shubert and Sister Weber
The Facilitated Collection

“Increasingly, the library does not assemble collections for local use, but facilitates access to a coordinated mix of local, external and collaborative services assembled around user needs and available on the network.” (Dempsey, 1)

DOI: http://doi.org/10.18352/lq.10170
A print logic: the distribution of print copies to multiple local destinations

A network logic: a coordinated mix of local, external and collaborative services are assembled around user needs

A collections spectrum

The ‘owned’ collection

Purchased and physically stored

The ‘facilitated’ collection

Meet research and learning needs in best way

The ‘external’ collection:
Pointing researchers at Google Scholar;
Including freely available ebooks in the catalog;
Creating resource guides for web resources.

The ‘borrowed’ collection

The ‘shared print’ collection

The ‘shared digital’ collection

The evolving scholarly record

A collections spectrum

The ‘owned’ collection

The ‘licensed’ collection

The ‘demand-driven’ collection

The ‘facilitated’ collection

Purchased and physically stored

Meet research and learning needs in best way
“WorldCat has emerged as an important registry for the borrowable collective collection, spanning thousands of libraries.” (Dempsey, 9)
“A large part – perhaps the majority? – of library collections will be under shared print management within the next decade.” (Dempsey, 9)
The Shared Digital Collection

“As libraries digitize their collections, it has become clear that very few individual institutions are strong gravitational hubs in themselves.” (Dempsey, 9)

HathiTrust Digital Library

Trove – National Library of Australia
The Evolving Scholarly Record

“Now, increasingly, there is an interest in a variety of other outputs: working papers, research data, preprints, and so on.” (Dempsey, 9)
The Licensed Collection

“...the collection is more elastic as titles are added or dropped, as needs, budgets or priorities change.” (Dempsey, 8)

The Demand Driven Collection

“DDA represents a move away from just in cases, owned collections, based on librarian judgment, towards a model which is built around patron behaviors.” (Dempsey, 9)
Enabling Transformation
## A Range of Options

<table>
<thead>
<tr>
<th>Compact Shelving</th>
<th>Offsite Storage (Regular Stacks)</th>
<th>Offsite Storage (High Density)</th>
<th>Deselection</th>
</tr>
</thead>
</table>

- **Compact Shelving**
- **Offsite Storage (Regular Stacks)**
- **Offsite Storage (High Density)**
- **Deselection**
Where Is the Data?

Library/Group
- Bibliographic
- Item (location, type status)
- Circulation
- Local rules
- Regional partners
- Comparators

SCS/Vendor
- Filtering
- Remediation
- Aggregation
- Synthesis
- Augmentation

External
- WorldCat
- HathiTrust
- CHOICE/Other Lists
- Internet Archive
- [Commercial availability]
1. Library’s bib, item and transaction data for Monographs

2. SCS

3. OCLC WorldCat

HathiTrust

GreenGlass
Independent Action in a Collective Context
Group Projects and Shared Print
Visualizing Group Collections

**Zero Uses**: 30% (441,407 title-sets)

**1-9 Uses**: 53% (782,878 title-sets)

**10-19 Uses**: 10% (146,475 title-sets)

**20+ Uses**: 7% (102,130 title-sets)

**Aggregate Uses - Title Count**
Scenario Analysis: Model Builder

Retain All
East Holdings
US Holdings
Regional Large Academic Libraries Holdings
CMW Retention Partners Holdings
Publication year
 ephemera
 Add Condition

FINAL EAST Retention Model

All Included Libraries
Retained Percentage: 36%
Retained Holdings: 6,003,283

Boston College
Retained Percentage: 36%
Retained Titles: 378,669

Retain All
Aggregate uses
Publication year
 ephemera
 Add Condition

Percent of Collection Retained

Collection Size (Titles)
Eastern Academic Scholars’ Trust

- **Retain ALL if**
  - EAST holdings fewer than 5
  - US holdings fewer than 40 (any edition)
  - Regional Large Academic Libraries holdings fewer than 5 (any edition)
  - CNY Retention Partners holdings fewer than 1 (any edition)
  - Publication year before 2011
  - Not Ephemera

- **Retain 5 if**
  - Aggregate uses more than 30
  - Publication year before 2011
  - Not Ephemera

- **Retain 1 if**
  - Publication year before 2011
  - Not Ephemera

**Sparsely held titles**

**High Use Titles**

**Safety Net**
Impact – Group Projects
Shared Print Retentions at a Glance

- 9 Group Projects
- 129 institutions with committed print retentions
- 7.4 million distinct editions retained
- 18.5 million title-holdings retained
- In 13 U.S. states and 5 Canadian provinces
Shared Print Retentions by Group

- Uniquely retained by this group
- Retentions Overlapping those of other groups

CI-CCI
TUG
MI-SPI
CNY
COPPUL
MSCS
ALI
WRLC
VIVA
EAST

Title-Holdings

- 0
- 1,000,000
- 2,000,000
- 3,000,000
- 4,000,000
- 5,000,000
- 6,000,000
Canadian Shared Print Retentions

376 K
356 K
206 K
208 K
340 K
Questions / Discussion
Thank you!

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Because what is known must be shared.