Putting the Puzzle Pieces Together: Forming UH Libraries Digital Preservation Landscape

UH Libraries Digital Preservation Task Force
Santi Thompson (Chair)
Annie Wu (Vice Chair)
Drew Krewer
Mary Manning
Rob Spragg

Presentation Outline

i.   Project Background
ii. Policy Creation
iii. System Evaluation
iv. Results and Future Recommendations

Setting the Scene

- **Inconsistent practices**

- **Transitional period**
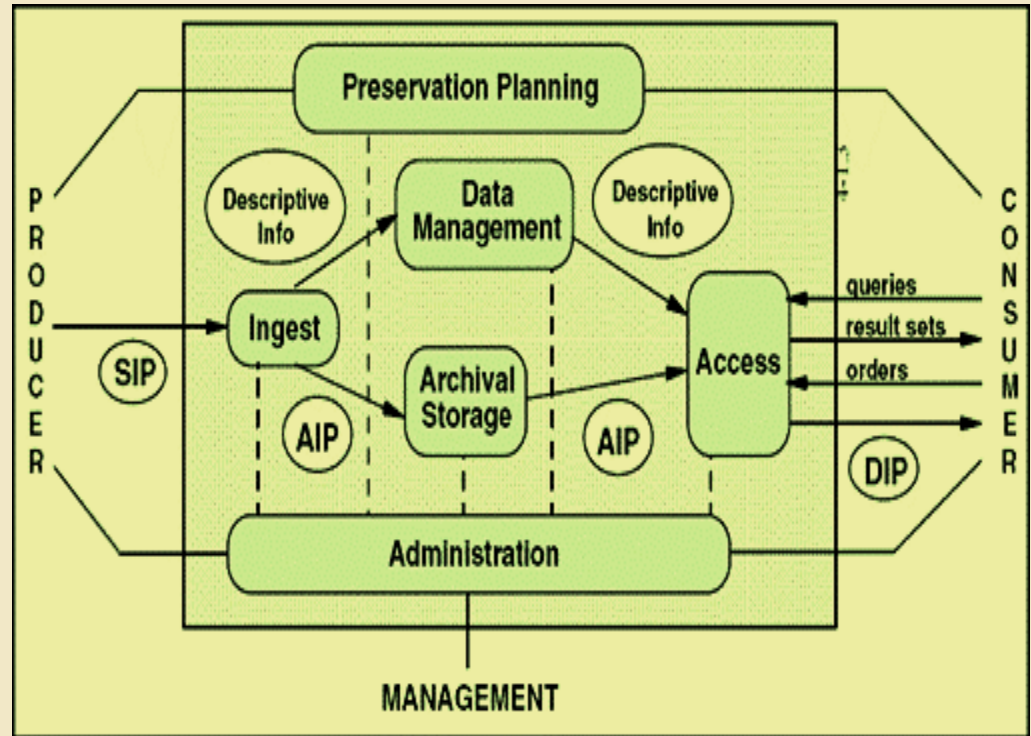
- **Leverage expertise**

Task Force Charge

- **Define Scope**
- **Articulate Priorities and Policies**
- **Determine Resources**
- **Align with TDL**
- **Recommend Next Steps**

Policy Creation

… **Articulate digital preservation priorities by outlining current practices, identifying preservation gaps and areas for improvement, and establishing goals to address gaps**

System Evaluation

… **Determine the tools, infrastructure, and other resources needed to address unmet needs and to sustain preservation activities in the future**
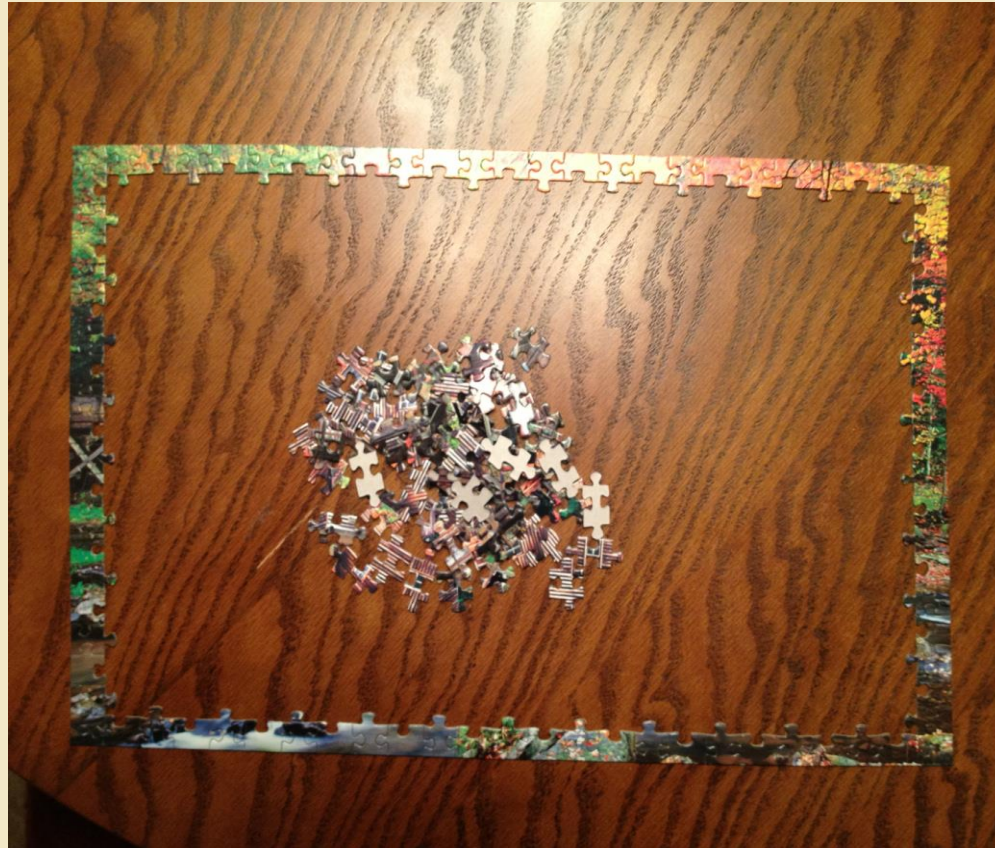
TDL Storage Services

… Align priorities with digital preservation standards, best practices, and Texas Digital Library (TDL) storage services

Finding & Connecting the Edge Pieces

Digital Preservation Management: Implementing Short-term Strategies for Long-term Problems
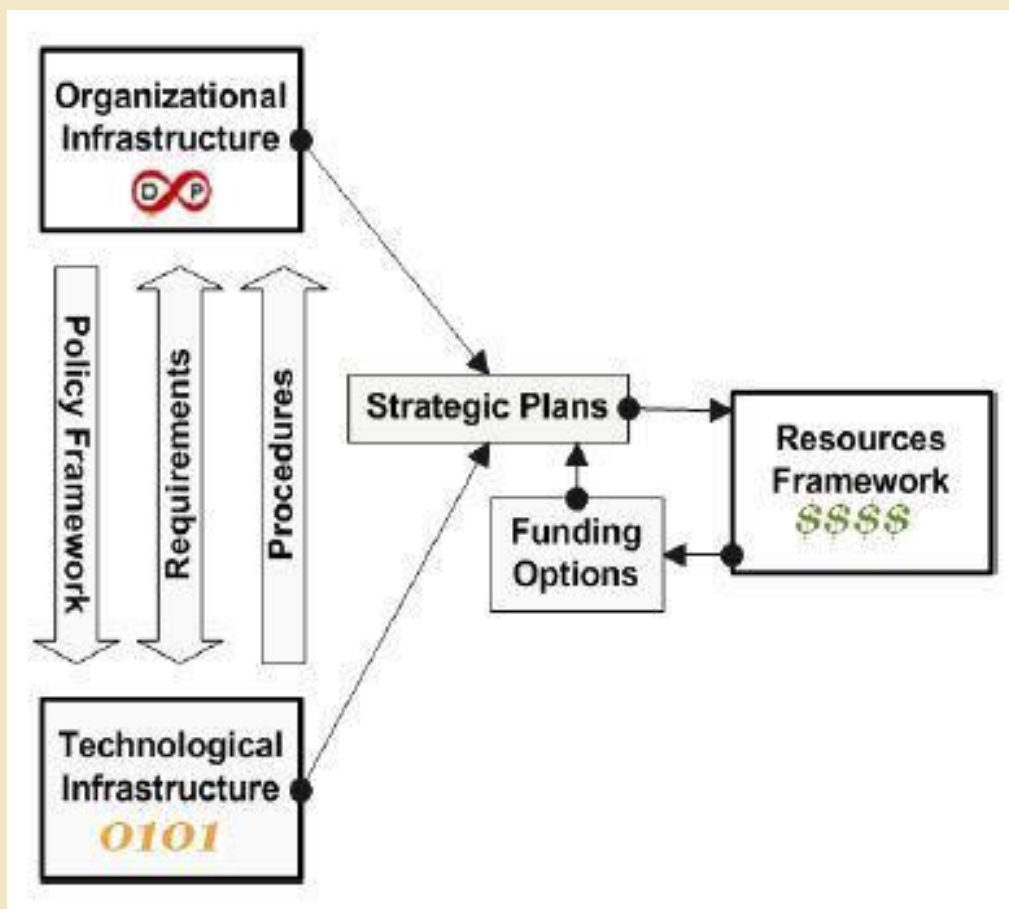
- **Developed by Cornell University Libraries & MIT Libraries**
- **Pre-workshop Tutorial & Readings: OAIS & TDR, etc.**
- **5 day intensive course (35 hours)**
- **Highly recommended!**

Action Plan for Developing a Digital Preservation Program

- **Organizational Infrastructure**

- **Technological Infrastructure**

- **Resources Framework**

You have to build the bike while you ride it.

from DPM's "Action Plan for Developing a Digital Preservation Program"

UNIVERSITY of **HOUSTON** | LIBRARIES

Digital Preservation Program

Digital Preservation Policy Framework
  Purpose
  Objectives
  Mandate
  Scope
  Challenges
  Principles
  Roles and Responsibilities
  Collaboration
  Selection and Acquisition Criteria
  Access/Use Criteria
  Review Cycle (added)
Policies and Procedures
  Roles and Responsibilities
  Digital Assets
  Digital Preservation Strategies
  Technological Infrastructure
    Digital Archive Operations
    Platform Requirements/Procedures
Technological Infrastructure
  OAIS Reference Model
  Information Packages
  Functional Entities

Building your program to align with TRAC requirements is not impossible!

Testing the Systems

What have others done before us?

- **Preserving (Digital) Objects with Restricted Resources (POWWR) Project**
- **The National Library of Medicine (NLM) Digital Repository Evaluation and Selection Working Group**

The POWRR Project

Preserving (Digital) Objects with Restricted Resources
http://digitalpowrr.niu.edu/

The POWRR White Paper

"From Theory to Action: 'Good Enough' Digital Preservation Solutions for Under-Resourced Cultural Heritage Institutions"

http://commons.lib.niu.edu/bitstream/10843/13610/1/FromTheoryToAction_POWRR_WhitePaper.pdf

Narrowing the Field

- **Rosetta**

- **Archivematica**

- **Preservica**

NLM Consolidated Repository Test Plan

Prepared by the NLM Digital Repository Evaluation and Selection Working Group

http://www.nlm.nih.gov/digitalrepository/Consolidated-DR-Testplan-Template.xls

- **Ingest**
- **Administer Archival Storage and Database**
- **Metadata Requirements**
- **Additional Technical Infrastructure Requirements**

Testing Archivematica

- **Used Modified NLM Tool**

- **Archivematica consulting**

Results

Advantages	Disadvantages
Sustained by active user community	More complex system maintenance
Supports complex archival workflow	Limited storage locations
Aligns with standards and best practices	Lacks robust reporting and notification service

Reporting Timeline

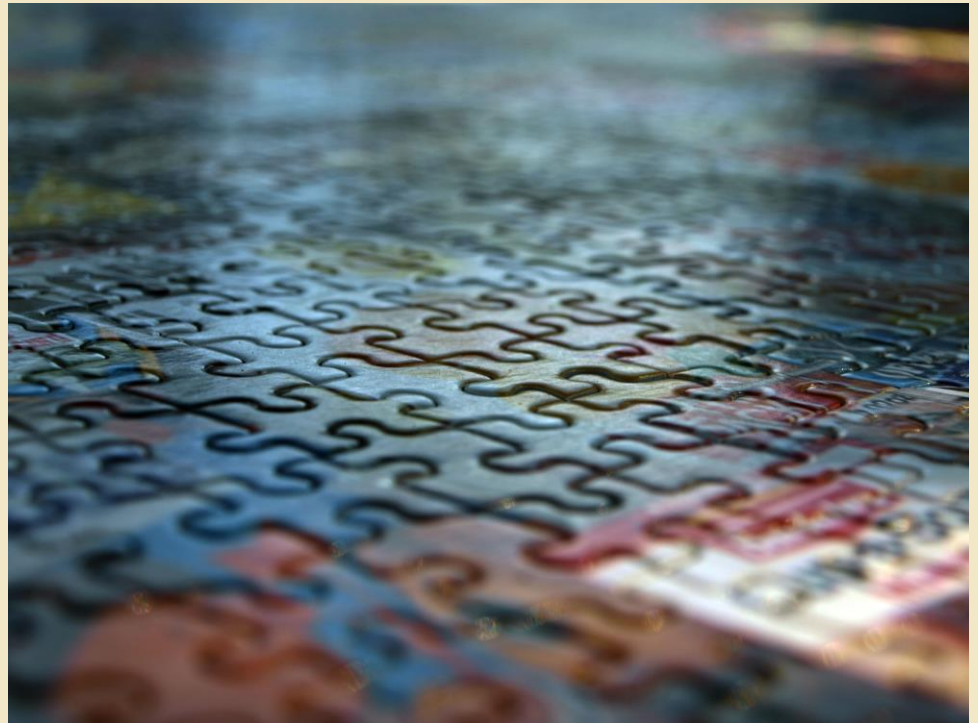| Date	Task Force Activity
April 5, 2014	Task force released draft of final report and DP Policies to internal UH LIbraries' stakeholders for public comment
May 15, 2014	Task force will submit final report, DP Policies, and proposed budget to Library Administration

Short-term Priorities

- **Form Digital Preservation Team**

- **Establish workflows**

- **Configure Archivematica system settings**

Long Term Objectives

- **Integrate with library DAMS**
- **Advise library on DP issues**
- **Assess and modify policies and workflows over time**

Benefits

- **Shared commitment**

- **Storage options**

- **Standards and best practices**

Image Credits

- **Auntie P, "Jigsaw," CC BY-NC-SA 2.0, https://flic.kr/p/8utKeQ**
- **Bunches and Bits {Karina}, "Reading," CC BY-NC-ND 2.0, https://flic.kr/p/7fRqZP**
- **Chlot's Run, "Puzzle Time," CC BY 2.0, https://flic.kr/p/aZ8r7P**
- **Scott Maxwell, "Working Together Teamwork Puzzle Concept," CC BY-SA 2.0, https://flic.kr/p/4fUsNL**
- **Poppen, "OAIS Functional Entities," http://en.wikipedia.org/wiki/Open_Archival_Information_System#/media/File:OAIS-.gif**
- **Jonathan Vaughan, "Puzzle Nerd Blog", https://puzzlenerd.wordpress.com/assembly-piece-by-piece**
- **Mitchelangelo, "Mixte Madness," CC BY 2.0, https://flic.kr/p/eLxZ9i**
- **Horla Varlan, "Fat exclamation mark made from jigsaw puzzle pieces," CC BY 2.0, https://flic.kr/p/7x9bSS**
- **---, "Question mark made of puzzle pieces," CC BY 2.0, https://flic.kr/p/7vB7fR**

Contact Information

Santi Thompson
Head of Digital Repository Services
UH Libraries
713-743-9685

sathompson3@uh.edu