Bridge2Hyku:

Tools and Strategies for Content Migration to Open Source Repository



Annie Wu, Santi Thompson, Andrew Weidner, Todd Crocken, Sean Watkins, Anne Washington, and Leroy Vallejo

> 2019 Open Repositories Hamburg, Germany

Agenda

- Introduction
- Bridge2Hyku (B2H) project background
- B2H project needs, impact and goals
- B2H Toolkit Alpha release and pilot testing
- Communication and sustainability
- What's next

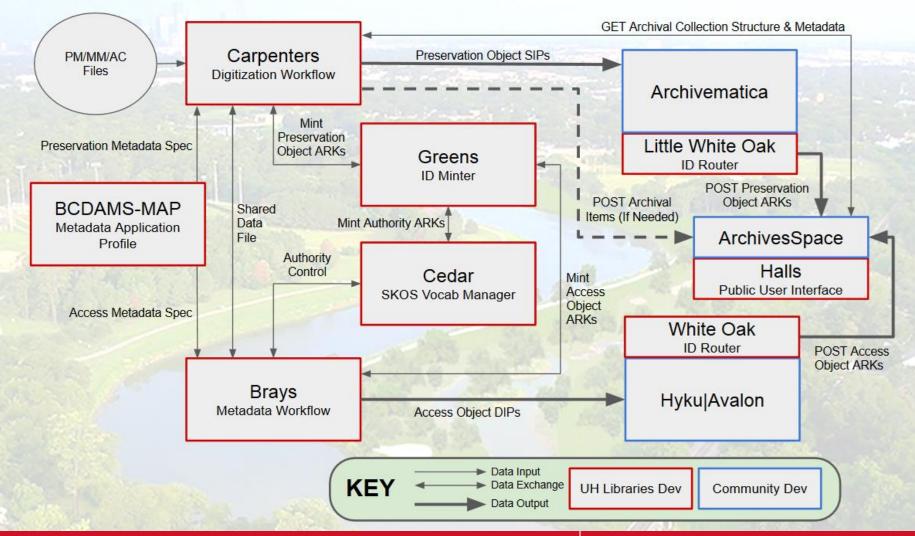
UH Libraries Move to Open Source Digital Solutions

- Evaluated DAMS, digital preservation and archive landscape
- Recommended to implement open source digital solutions
- Develop an eco-system for systems integration



@rchivematica.

UH Libraries Digital Eco-system



Samvera Community



about samvera what is sa

what is samvera? why use samvera?

Home » Who Uses Samvera?

SAMVERA PARTNERS

The Samvera Community is built around a core group of Partners committed to the success of the project and more importantly to the success of each other. There are also many institutions and individuals that have formally committed to the sustainability of the Community through code contributions, participation in working or interest groups, helping with documentation, design, or planning. No contribution is too small. If you are interested in contributing to the Samvera Community or just interested in Samvera in general read more about the Community **here**.

The number of Samvera Partners has grown steadily worldwide.



35 partner institutions primarily in North America and Europe

Solution Bundles:

- Avalon
- Hyku
- Hyrax

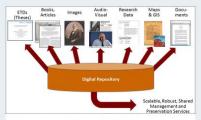
Samvera Features

SAMVERA IS FLEXIBLE AND EXTENSIBLE

The Samvera framework uses the best of current repository, search, and user-interface technologies. The separation of data and display, within the Samvera framework, promotes flexibility and extensibility.

Flexible

Within Samvera framework, one body, the digital repository, supports multiple heads or tailored, content type-specific applications. Additional heads can be implemented with the same repository to handle new forms of content as they emerge. All content stored in the repository can benefit from common curatorial functions and end-users benefit from tailored discovery and access interfaces.



Where other repository systems may be tailored to a specific format or medium, requiring specific systems and expertise, the Samvera framework is flexible enough to serve multiple needs.

Extensible

The Samvera framework is architected to extend features based on specific concerns and use-cases. Established features with long-term community commitment are available, such as:

- Browse Everything allows your rails application to access user files from cloud storage, such as Dropbox, Skydrive, Google Drive, Box, and a server-side directory share
- LDP provides a Linked Data Platform and allows publication of RDF data

The agile and collaborative nature of the Samvera Community also enables experimentation with cutting-edge extensions, which can be added to address unique needs, explore usefulness and possibilities, and eventually gain community commitment. Experiments include:

- GeoMash for linked data and geo-vocabularies
- International Image Interoperability Framework (IIIF) manifest
- ORCiD integration
- SHARE notify service
- Shibboleth authorization integration

- Flexible, scalable and extensible
- Support multiple heads and special format applications
- Cutting-edge features
 extension
- Linked Data Platform (LDP)



about samvera

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why use samvera?

who uses samvera?

getting started

news & events Q

Home » News & Events » University of Houston Libraries Partner with Samvera

UNIVERSITY OF HOUSTON LIBRARIES PARTNER WITH SAMVERA

Posted on August 18, 2017 - News

The University of Houston Libraries (UHL) have become Samvera's latest formal Partner.

UH Libraries has been actively involved in the Samvera Community through the Metadata Interest Group, CONTENTdm Migration Working Group, and Hyku efforts.

In addition to direct Samvera Community involvement, UH Libraries supports Samvera through activities in the Fedora repository community. UH Libraries helped initiate the South Central States Fedora Users Group (SCSFUG) with Texas Digital Library (TDL) to form a growing multi-state community of library faculty and staff who are actively working on or interested in Fedora-based repository projects. They have hosted events to continue to conversation and support for our base repository system.

NEWS & EVENTS

Samvera Connect 2017 and 2018 Samvera Connect 2017 Sponsor Prospectus Samvera Connect 2017 Samvera and the world's top universities

University of Houston Libraries Partner with Samvera

RECENT TWEETS

| Tweets by @samverarepo | 0 |
|-------------------------------|---|
| 3 Samvera Community Retweeted | |

IMLS National Leadership Grant

Bridge2Hyku Toolkit: Developing Migration Strategies for Hyku

LG-70-17-0217-17

Oct. 1st, 2017 – Sept. 31st, 2019



Bridge2Hyku – International Collaboration

Implementation Team

UNIVERSITY of HOUSTON

http://www.uh.edu

Annie Wu Principal Investigator Santi Thompson Principal Investigator Andy Weidner Project Manager Todd Crocken Content Strategist Sean Watkins Software Developer Anne Washington Migration Strategist



https://www.uvic.ca Lisa Goddard Advisory Board Member Braydon Justice Software Developer Dean Seeman Migration Strategist



https://welcome.miami.edu Sarah Shreeves Advisory Board Member Paul Clough Software Developer Elliot Williams Migration Strategist



https://www.iupui.edu Chip Dye Advisory Board Member Andy Smith Software Developer Kristi Palmer Migration Strategist Richard Wing Migration Strategist

Community Stakeholders

- Stanford University
- DuraSpace
- Digital Public Library of America (DPLA)
- Indiana University Bloomington

Recently Added Partner:Texas Digital Library (TDL)

Bridge2Hyku - Needs

UNIVERSITY of HOUSTON LIBRARIES

BRIDGE2HYKU

- DAMS assessment
- Trend towards open source solutions
- Lack of migration tools and guidelines
- Lack of staff resources and expertise

Bridge2Hyku - Impact



- Fill current gaps in content migration practices
- Quicker and wider adoption of open source digital solutions
 - Broaden access andexpand use of digitalcontent and collections

Bridge2Hyku – Goals and Outcomes

Bridge2Hyku Toolkit website and Github site

- Migration strategies and best practices
- Migration software/tools
- Hyku features and requirements

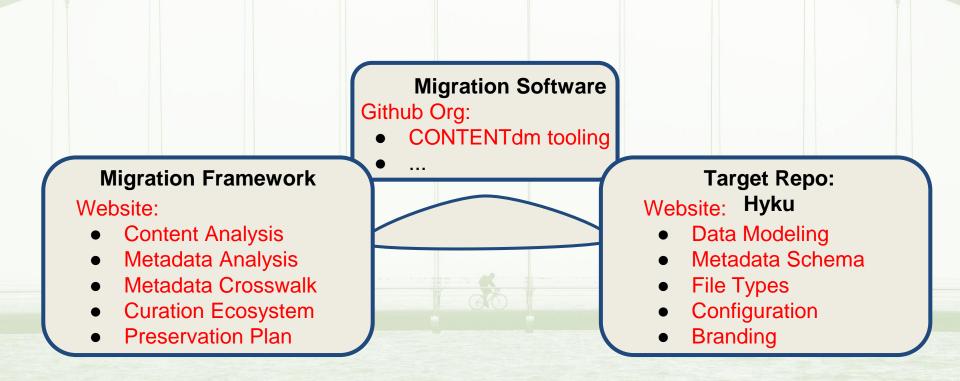
Community support and sustainability



Project Timeline

| Phase 1 Oct 2017 - Apr 2018 | Phase 2 May 2018 - Apr 2019 | Phase 3 May 2019-Sept 2019 |
|---|--|---|
| Conduct needs assessment (motadata and system | Develop and document B2H Toolkit (website, tools and guidelines) | Assess, Improve, and Promote B2H Toolkit. |
| requirements) | | |

Project Design



Bridge2Hyku Toolkit





Migration Planning

Migrating data from one repository to another is no easy task. Start here to learn more about how to assess your current repository content and prepare it for a move to another system.

More



Software Toolkit

The Bridge2Hvku toolkit is open-source software and freely available on Github. Use these tools to analyze your descriptive metadata and migrate your repository content to Hyku.





About Hyku

Hyku offers a turnkey repository system that is easy to use and maintain. Learn more about what Hyku offers in order to decide if it is the right fit for your institution.



Migration Strategies

- Migration Tools
- Hyku Features

https://bridge2hyku.github.io/

Content Migration Strategies



Migration

Learn how to assess your current repository content and prepare it for a move to another system

Migration Overview

Data migration for digital collections is a complex process. As with most difficult tasks, it can be helpful to break down what needs to be done into smaller blocks of work. In general, data migrations can be divided into four sub-tasks, each with their own sets of outcomes, tools, and techniques: Migration Planning, Metadata Normalization, Content Migration, and Content Verification.

The following sections describe the importance of each of these steps in more detail and provide resources for effectively planning and executing your next content migration. This page does not assume that you have chosen a target system for your migration or that you are migrating from a specific source platform. This information is intended as a general migration guide for both new and seasoned digital collections professionals.

Table of Contents

- Migration Overview
 Migration Planning
- Contextual Considerations • Digital Library Analysis
- Content Analysis
 Metadata Analysis
- Normalize Metadata
 Migrate Content
- Model Work Types
- Map Metadata • Source Repository Export
- Target Repository Import
- Content Verification
 Approaches

- Migration Planning
- Normalize Metadata
- Migrate Content
- Content Verification

 Migration Resources

Content Migration Tools



Toolkit

Use these tools to analyze your descriptive metadata and migrate your repository content to Hyku

Data Migration

The tools below are available to help move your content out of CONTENTdm and into Hyku.

CDM Bridge (Wiki)

https://github.com/Bridge2Hyku/cdm-bridge/releases

An Electron desktop application for crosswalking and exporting CONTENTdm metadata. It also provides the option of exporting files from CONTENTdm. CDM Bridge connects to the CONTENTIM API and presents a custom crosswalking interface for each collection. Metadata specialists may use the application to generate lists of field values for cleanup and normalization prior to migration. When a collection is ready for migration CDM Bridge generates a CSV, with or without the files from CONTENTdm, that may be used to ingest the collection in to Hyku with HyBridge.

Table of Contents

- Data Migration
 OCDM Bridge (Wiki)
- HyBridge
- CDM Migrator
- Hunting
 Metadata Normalization
- OpenRefine • LibreCat/Catmandu
- DLF Metadata Assessment Interest Group Toolkit
- AutoHotkey

CDM Bridge

- HyBridge
- CDM Migrator

CDM Migrator



Toolkit

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CDM Bridge

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|--|---------------------------|------------------------|-------------------|---|
| CDM Bridge | | | Export Collection | - |
| Collections | | | | |
| 1850s and 1860s Hotel and Restaurant Menus | Export Field | CDM Field | | |
| Andy Warhol - Celebutants, Groupies, and Friends | Title Required | Title | \$ | + |
| Annual Reports from the Hospitality Industry Archi | | The | ¥ | т |
| Architectural Retail Catalog Collection | Creator Required | Creator (LCNAF) | \$ | + |
| The Astrodome, Eighth Wonder of the World | | Creator (HOT) | \$ | - |
| Bebe Gow Scrapbooks | | Creator (ULAN) | \$ | - |
| Blanche Espy Chenoweth, Her Life, Her Times | | Creator (Local) | \$ | - |
| Board of Regents Records | Keyword Required | Subject.Topical (LCSH) | \$ | + |
| Book of Hours, Use of Reims | Binkto statement of it | | | |
| Building Houston | Rights statement Required | Use and Reproduction | \$ | + |
| Burdette Keeland Architectural Drawings & Photog | Contributor | Contributor (Local) | \$ | + |
| Captain O.C. McDavid World War II Letters | | Contributor (LCNAF) | \$ | - |
| Carlos (DJ Styles) Garza Drawings and Memorabilia | | Contributor (HOT) | \$ | - |
| City of Houston, Its Development and Evolution | | Contributor (ULAN) | \$ | - |
| Civil War Letters | Abstract / Summary | Description | \$ | + |
| Daily Cougar | | | • | • |
| DJ Screw Photographs and Memorabilia | License | Select a field | \$ | + |
| Domestic Crude | Publisher | Publisher | \$ | + |

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| Sean Watkins | Home / Dashboard / Works | | |
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| Your activity > | All Works Your Works | | |
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| Collections | Show 10 + per page | | |
| Works | | Enter search terms Date Added Highlighted Visibilit | Q Go |
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| Review Submissions | Oil tanks on fire three days later | ☆ Private | Select - |
| Reports | Parking area one half mile from ex | | Select - |
| IGURATION | plosion | ជំ Private | Select - |
| Settings > | Road to explosion area | ☆ Private | Select - |
| Workflow Roles | Row of damaged houses | 습 Private | Select - |
| Users and groups > | Corner view of damaged houses | | |
| | Corner view or damaged nouses | ☆ Private | Select - |
| | Damaged houses | ជំ Private | Select - |
| | Warehouse destroyed | * | Selar |
| | | ជំ Private | Select - |
| | Freight cars one quarter mile from explosion | ☆ Private | Select - |
| | Motor convoy for Texas City | ☆ Private | Select - |
| | | | |
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| le.localhost:3000/dashboard/my/works?locale | le=en | | |

HyBridge

Hyku Features



Hyku

Learn about what Hyku offers for your institution

National Digital Platform

Hyku, the repository software produced by the Hydra-In-a-Box project, was built as a part of the Institute for Museum and Library Services' <u>National Digital Platform</u> initiatve. It strives to be "a feature-rich, robust, flexible digital repository that is easy to install, configure, and maintain."

- National Digital Platform
- Hyku vs Hyrax vs Omeka
- Hyku Features
- Hyku Metadata Schema
- Institutional Repository
- Cultural Heritage Repository

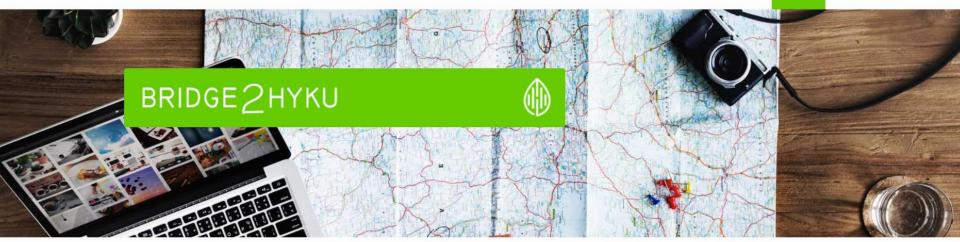
Bridge2Hyku Github Why GitHub? ~ Enterprise Explore ~ Marketplace Pricing ~ Sign up Sign in BRIDGE2HYKU Bridge2Hyku Repositories 7 Projects 0 People 1 Dismiss Grow your team on GitHub \sim GitHub is home to over 31 million developers working together. Join them to grow your own development teams, manage permissions, and collaborate on projects. Sign up Find a repository... Type: All -Language: All -Top languages hybridge Ruby Shell JavaScript A ruby gem to batch ingest digital objects into the Samvera Hyku application TypeScript Ruby **★**1 😵 3 🐴 Apache-2.0 Updated a day ago 1> People

Bridge2Hyku Blog

HOME MIGRATION TOOLKIT HYKU

ABOUT BLOG SEARCH

- CONTACT



UPDATES

Hibernation's End - Conference Season has Arrived



We haven't been sleeping, but we also haven't been posting. Find out where you can learn more about the Bridge2Hyku Project during this conference season! Read More > Take the Bridge2Hyku Digital Collections Survey to help us understand your content migration needs.



Bridge2Hyku Twitter



@Bridge2Hyku

We're building a migration toolkit for digital archives/repositories to move into Hyku. This project was made possible in part by @US_IMLS

O Houston, TX

III Joined January 2018

Photos and videos





Tweets Tweets & replies Media

Pinned Tweet

Bridge2Hyku @Bridge2Hyku · Mar 15 we've heard back from all our submissions, and gosh, we have a busy spring coming up. Check out our conference schedule and come learn more about our project face-to-face soon.

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Hibernation's End - Conference Season has Arrived We haven't been sleeping, but we also haven't been

but we also haven't been sleeping, but we also haven't been posting. Find out where you can learn more about the Bridge2Hyku Project during this conference season!

bridge2hyku.github.io

t] 🔿 3

Bridge2Hyku @Bridge2Hyku · Mar 27

If you took a Workshop entitled "Strategies and Tools for Digital Repository Selection and Migration", what would be the most important information to walk away from it with?

Q1 1 2



Bridge2Hyku @Bridge2Hyku · Mar 1



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#VietnamWarVeteransDay 16.2K Tweets

#FridayMotivation 32.4K Tweets

#FridayThoughts 21.9K Tweets

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Agnès Varda French New Wave director Agnès Varda dies at age 90

#FlashbackFriday 10.3K Tweets

LOVE MAZE 58K Tweets

Other Toolkit Promotion Venues

- Conference presentations
 Workshops and online training
- Open access
 publications

Pilot Testing and Enhancement

- November 2018 February 2019
- Testing rubric
- Pilot recommendations





B2H Project Partnership

- Digital Collections Report
- Tools Development
- Toolkit Promotion

Next Steps and Sustainability

- B2H Github Organization (UH)
- Samvera Community
- Third party hosted support

Thank you

Contact Info:

Annie Wu Santi Thompson awu@uh.edu sathompson3@uh.edu

Image Credits:

- Samvera: <u>https://samvera.org</u>
- African proverb: https://makeameme.org/meme/if-you-want-p1qwui
- Impact: https://www.interstaterestoration.com/blog/why-business-impact-analysis-bia-important
- Outcome: <u>https://www.qcs.co.uk/outcome-based-care/</u>
- Promotion: "Digital campaign free icon" Icon made by <u>Freepik</u> from <u>https://www.flaticon.com/</u>
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