

Hyku at UH and TDL

Beta Hyku and Hyku Direct

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What is Hyku?

Formerly Hydra-in-a-Box

A Fedora/ Hydra/ Samvera “turnkey” installation

For whom do we need to define Hydra/ Samvera? (it’s okay to raise your hand)

Traditionally Hydra/ Samvera required a fleet of personnel to manage the service

Hyku Then and Now

Began work on Hydra-in-a-Box back in 2015

Team primarily out of Stanford (Hannah Frost, PM)

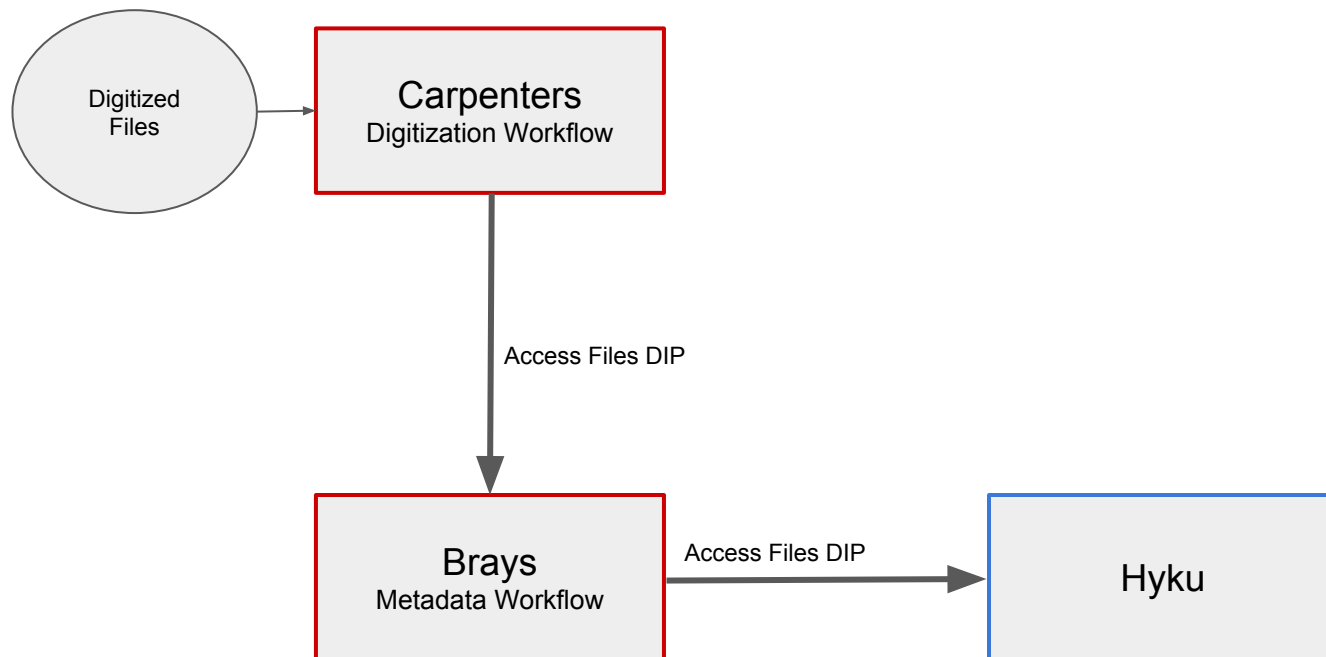
Beta testing announced in late 2016

Beta ran from May to June 2017

Presented Hyku at OR2017 in Brisbane

Hyku at UH

Bayou City DAMS Project



Hyku Beta Test

Bridge2Hyku Grant

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Aerial Shot of Texas...

czepeda6@uh.edu

no resource specified

Harbors, Marine debris, Disasters, man-made disasters, Debris, slips (waterfront spaces), Texas City Disaster



Texas City 1947 Disaster Photographs

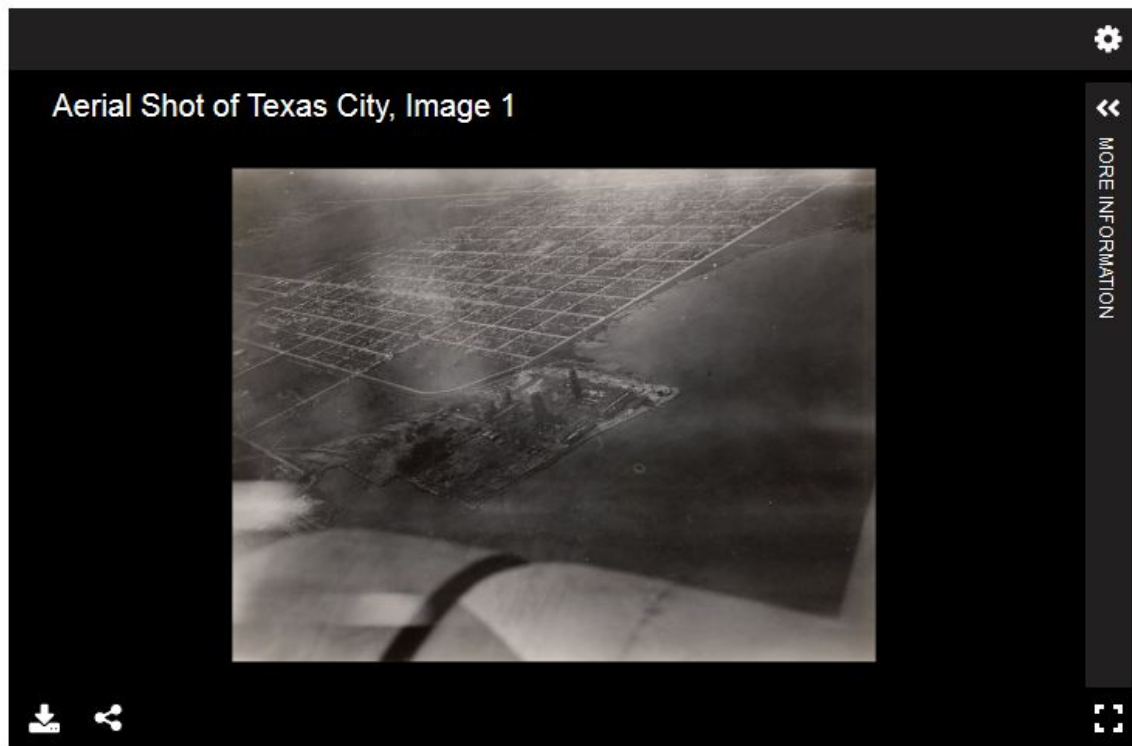
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Aerial Shot of Texas City, Image 1

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Last modified: 07/20/2017



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	txcy021-cc.tif	2017-07-19	Open Access	Select an action ▾

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1. Fuel tank near slip #1

**Title:** Fuel tank near slip #1**Description:** Fuel tank 200(?) yards inland from no. 1 slip.
Inscription on back: "Storage Tank by Slip #1"**Creator:** unknown**Location:** Texas City**Date** April 18, 1947**Created:****Resource Type:** Image**Identifier:** ID 1969-035, Box 1, Folder 13

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Texas City 1947 Disaster Photographs [Open Access](#)




These 21 black and white photographs document the aftermath of the "Texas City Disaster," an industrial catastrophe that killed well over 500 people on April 16, 1947. Images include aerial views, oil tanks on fire, blown-out freight cars, damaged houses and other buildings, destroyed barges, boat slips strewn with debris, and burned, wrecked cars covered with ashes. The photographs were taken by an unknown individual between April 16 and April 21, 1947. Each digital image includes a description transcribed directly from the original photo album, complete with any misspellings. The album itself has been disbound and the photographs removed for preservation purposes. The Texas City Disaster has been called the worst industrial disaster in American history. The SS Grandcamp, carrying ammonium nitrate, caught fire early in the morning and exploded, wiping out the entire dock area, a nearby chemical plant, small businesses, grain warehouses, and many oil and chemical storage tanks. Flying debris ignited several smaller fires and explosions, and a fifteen-foot tidal wave caused by the blast swept the dock area. The docked SS High Flyer, which was also carrying ammonium nitrate, subsequently caught fire, was towed 100 feet out, and exploded that night. Damage from the Texas City Disaster was devastating. Although the exact number of people killed may never be known, the ship's anchor monument records 576 persons known dead. Property damage was immense, with over 1,000 residences and buildings throughout Texas City damaged or destroyed by the concussion from the explosion. Information for this description was drawn from the Handbook of Texas Online and the book *The Texas City Disaster, 1947* by Hugh Stephens, published by the University of Texas Press. The original materials are available in UH Libraries' Special Collections in the Texas City Disaster Photographs.

Total works: 21**Size:** 167 MB

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 Fuel tank near slip #1 >	2017-07-21	<input type="button" value="Open Access"/>
 Barge from slip #1 on land >	2017-07-21	<input type="button" value="Open Access"/>
 Warehouse destroyed >	2017-07-21	<input type="button" value="Open Access"/>
 Freight cars one quarter mile from explosion >	2017-07-21	<input type="button" value="Open Access"/>
 Parking lot one quarter mile from explosion >	2017-07-21	<input type="button" value="Open Access"/>
 Oil tanks on fire three days later >	2017-07-21	<input type="button" value="Open Access"/>

Works in this Collection

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Fuel tank near slip #1

Title:

Fuel tank near slip #1

Description:

Fuel tank 200(?) yards inland from no. 1 slip. Inscription on back: "Storage Tank by Slip #1"

Creator:

unknown

Location:

Texas City

Date Created:

April 18, 1947

Resource Type:

Image

Identifier:

ID 1969-035, Box 1, Folder 13



Barge from slip #1 on land

Title:

Barge from slip #1 on land

Description:

Barge 100 feet long that was in no. 1 slip. This barge lifted out of water and landed 100 feet inland. Damaged part of barge in picture is fire truck thrown there by second explosion. No. 1 slip is behind (sic) barge. Inscription on back: Runway to #1 Slip

Creator:

unknown

Location:

Texas City

Date Created:

April 18, 1947



Warehouse destroyed

Title:

Warehouse destroyed

Description:

Warehouse destroyed. Located between no. 1 and 2 slips. Ship in each slip exploded (sic). First ship exploded in no. 1 slip to left of picture. Inscription on back: "Barge with Fire Truck on top of it. #1 Slip"

Creator:

unknown

Location:

Texas and Texas City

Date Created:

April 18, 1947

Identifier:

Hyku Beta at UH

LIKE	DISLIKE
IIIF Image Viewer	No Content Block Configuration
Clickable Metadata Facets	No Metadata Configuration
Collection Works Views	Limited Work Types
Intuitive, Modern Interface	No Batch Upload

Bridge2Hyku

Migration Software

Github Org:

- CONTENTdm tooling
- DSpace tooling
- ...

Migration Framework

Website:

- Content Analysis
- Metadata Analysis
- Metadata Crosswalk
- Curation Ecosystem
- Preservation Plan

Target Repo: Hyku

Website:

- Data Modeling
- Metadata Schema
- File Types
- Configuration
- Branding

Hyku Direct

DuraSpace is rolling out Hyku Direct for organizations to offer as a service

Multitenant operation for running single system with many users

Hosting organization will support the project via a compensation model back to DuraSpace based on our fees and usage

TDL Pilot - Hyku Direct

Hyku advertises “multitenancy” - ability to host multiple users within the same Hyku - we have 22 members

TDL utilizes the AWS infrastructure - from the Hyku wiki “Hyku is easily deployable to Amazon Web Services using CloudFormation templates and every commit in the Hyku code repository’s master branch triggers an automatic deployment to an AWS-hosted demo instance”

A Pilot and Planning Beyond

This Fall, Woodward will be installing Hyku again for us to re-review

In 2018, we'll be looking to run our own pilot

- Will need test subjects (Greenfield only)

- Will need plans for longterm rollout

Determine cost of running service

Documentation and materials to get TDL community ready

Technical Investigation

Is multitenancy a good idea?

What security issues does this incur?

How does this relate to security?

How can we track cost via the AWS bill?

How do we hand things over if someone wants to leave TDL?

Does this mean we spin up a Hyku per institution?

Technical Investigation

Is cost manageable, or are we looking at applying new systems whenever Hyku central makes a change? I.e: can we run Hyku on fewer computers?

How much of our team's time will it take to run Hyku? What sorts of issues will we run into on a system level/ user level?

Can we use Hyku Direct to create new Samvera Heads to curate separate presentation layers?

Determining the Use Case

Not currently ready to replace DSpace

Features

Import/ Export

Is it a DAMS?

There's probably a working group here

Determine need

Prep the membership - Fedora datastructures, PCDM, etc...