Digital Public Library of America:
Minnesota's Contribution
Year One +

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dp.la   l   reflections.mndigital.org   l   mndigital.org

Minnesota Digital Library

The **Minnesota Digital Library**, based in Minitex, engages in and supports access to online resources, digitization, educational outreach, professional development and digital preservation.

Minnesota Reflections is a free online database of digitized materials from many of the state's leading cultural heritage organizations.

MDL Footprint (2014)

- ~160 cultural institutions – all types and sizes
  - County, Area, and Regional Historical Societies
  - Academic, Public, and Special Libraries
  - Museums
  - Governmental agencies, including national, state, and county offices
  - Non-profit foundations
  - Religious organizations
  - Church and monastery archives

- >200,000 files -- images, audio-recordings, newspapers, maps & documents

- Educational Programming
  - Lesson plans and exhibits

- Large-scale aggregation & discovery
  - via DPLA Service Hub role

MDL's Five Program Areas

- **Digital Conversion**
  - Photographs, textual materials, maps, audio, video

- **Online Access**
  - Minnesota Reflections
  - Metadata brokering (DPLA, WorldCat, Google)
  - Experimentation with Google SA, Steve Project (tagging)

- **Digital Master Storage and Preservation**
  - Evolving towards a state-wide preservation service

- **K-12 and Lifelong Learning Support**
  - Teacher guides, tied to Minnesota Curriculum Standards
  - Teacher-designed Pachyderm modules (online learning objects)

- **Professional Development & Education**
  - Metadata and digital capture training/webinars
  - Annual conference

MDL Funding and Support

- **Start-up Phase:** year-to-year LSTA awards
  - $150K – $235K per year
  - Generous in-kind effort contributions from MDL Coalition anchors

- **Establishing Phase:** annual state-wide LSTA funding
  - $200K – $225K per year
  - Generous in-kind effort contributions from MDL Coalition anchors

- **Sustaining Phase:** State-wide Legacy and Minitex Funding
  - Legacy Funding established for years 2010-2035 – now @ $300K/year
  - Minitex Funding (Office of Higher Education)
  - Generous in-kind effort contributions from MDL Coalition anchors

Digital Public Library of America

DPLA is …

The Digital Public Library of America brings together the riches of America's libraries, archives, and museums, and makes them freely available to the world.

- **Portal**
  - Providing innovative ways to search and scan through millions of items, including by timeline, map, virtual bookshelf, format, subject, and partner.

- **Platform**
  - Enabling new and transformative uses of our digitized cultural heritage. With an API and maximally open data, DPLA can be used by others to create novel environments for learning, tools for discovery, and engaging apps. (http://dp.la/info/developers/download)

- **Public Option**
  - DPLA works, along with like-minded organizations to foster an open intellectual landscape in the face of increasingly restrictive digital options.

DPLA Funders

- Alfred P. Sloan Foundation ($2.5M)

- Arcadia Fund ($2.5M)

- John S. and James L. Knight Foundation ($1M)

- National Endowment for the Humanities ($1M)

- Institute of Museum and Library Services ($250K)

- Bill and Melinda Gates Foundation ($1M)

DPLA Launch - April 18, 2013

April 18, 2013

Total DPLA records: 2.4 M
Service Hubs: 6 (including MDL)
Content Hubs: 10
Organizations represented: ~500

April 18, 2014

Total DPLA records: 7.1 M
Service Hubs: 11-12
Content Hubs: 16
Organizations represented: ~1,300

Sources for Metadata Aggregation

- Metadata for cultural heritage digital objects and books aggregated from **Service Hubs** and **Content Hubs**

- Starting with harvesting from Service Hubs for the initial dataset.

<u>**SERVICE HUBS**</u>

- Mountain West Digital Library
- Digital Commonwealth (Mass.)
- Digital Library of Georgia
- Kentucky Digital Library
- **Minnesota Digital Library**
- South Carolina Digital Library

- Empire State Digital Network (New York)
- North Carolina Digital Heritage Center
- The Portal to Texas History
- Connecticut Digital Archive
- Indiana Memory
- Montana Memory Project

MDL among the Service Hubs

Sharing our Story
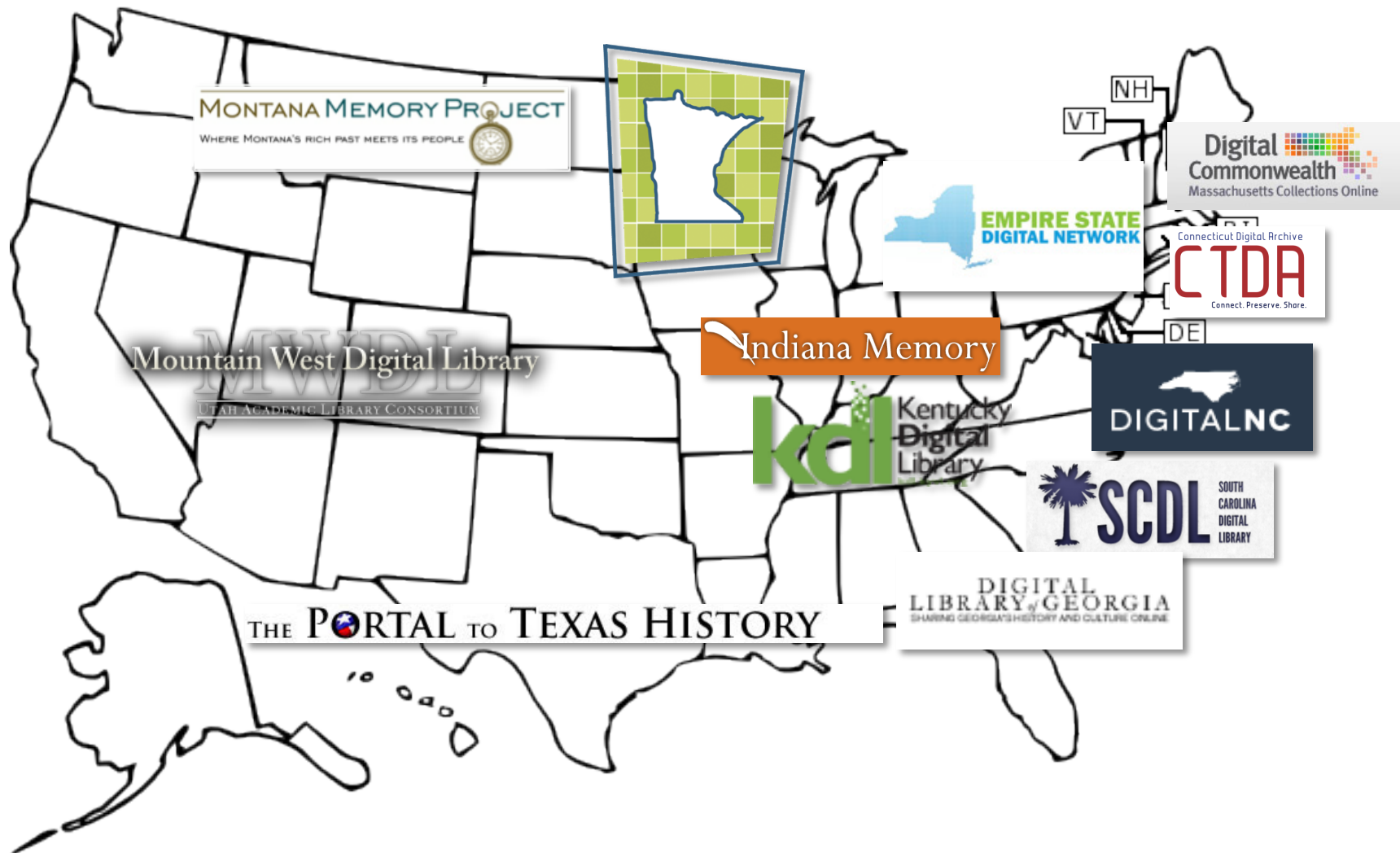
Fostering Innovation via Re-use

- The point of the API is for the community to build on it
  - Beta sprints
  - Appfests

- **Developer Portal** – http://dp.la/wiki/Dev_portal
- **Code** – https://github.com/dpla
- **App Library** – http://dp.la/apps

Library Observatory
Created by metaLAB at Harvard

Search DPLA and Europeana
Jesús Domínguez

Search the Library

App Library

Share

The DPLA is a platform that enables new and transformative uses of our digitized cultural heritage. The DPLA's application programming interface (API) and open data can be used by software developers, researchers, and others to create novel environments for learning, tools for discovery, and engaging apps.

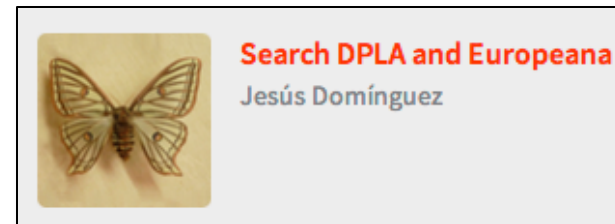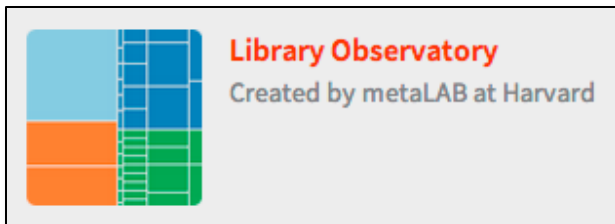**Become an App Developer**

1 2

WikipeDPLA
Eric Phetteplace

See relevant results from the Digital Public Library of America on any Wikipedia article using this Google Chrome extension.

App Home Page »

Term vs. Term
Owen Mundy

Compare the number of search results for two phrases from the Digital Public Library of America.

App Home Page »

FindDPLA
Eric Phetteplace and Jake Orlowitz

Want to see DPLA's related text and images for any Wikipedia article? FindDPLA is an easy-to-install tool that pulls up relevant content from the DPLA any time you view a Wikipedia article.

App Home Page »

Historical Cats
Adam Malantonio

A Twitter bot that grabs an item at random via the DPLA's API platform and tweets it out.

App Home Page »

Metadata Games
Tiltfactor Labs

Metadata Games is a digital game platform for gathering data on photo, audio, and moving image artifacts. The platform entices players to visit archives and explore humanities content while contributing to vital records. Metadata Games is fueled in part by digital materials contained in DPLA via its partners.

App Home Page »

DPLA Search Widget
Dean Farrell and Josh Wilson

Search the DPLA right from your webpage in three easy steps! DPLA Search Widget allows you to easily install a DPLA search box on your website or WordPress pages.

App Home Page »

Aligning Policy with Aspiration

- The DPLA hopes that the content and resources in the library will be put to **creative uses that educate, inform, and empower** current and future generations.

- The DPLA aims **to make the cultural and scientific record available, free of charge**, to all through databases of metadata. The DPLA, for this purpose, has undertaken the task of ingesting, indexing, enriching, and making available descriptive metadata and wishes **to make such metadata widely available for reuse**.

- The DPLA wishes to promote innovation in the development of applications and tools that use and rely on this metadata. In order to foster such innovation, the DPLA is **committed to ensuring such metadata is unencumbered by legal restrictions**.

Metadata Policy Statement

① The vast majority of metadata is not subject to copyright restrictions

② DPLA's partners share the DPLA's vision of and commitment to freely sharable metadata to promote innovation.

③ DPLA asserts no rights over its database of metadata and dedicates its contributions to the public domain

④ DPLA's users are free to harvest, collect, modify, and/or otherwise use any metadata contained in the DPLA.

Download, re-use, re-invent...

MDL+DPLA
Addressing the Full Spectrum of Digital Needs

Historical Cats
Adam Malantonio

DPLA Search Widget
Dean Farrell and Josh Wilson

Search the DPLA

Reuse

Amplification

DPLA DIGITAL PUBLIC LIBRARY OF AMERICA

Preservation

Discovery & Access
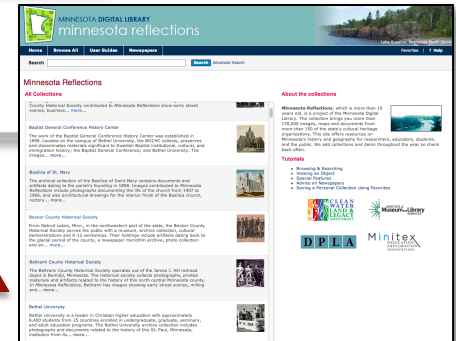
Digitization & Cataloging

Minnesota Digital Library
Sharing our Story

DPLA-funded Initiatives

MDL's DPLA-funded Activities

- State-/Region-wide digital library metadata aggregation

- Major new digitization projects

- Digital storytelling

- New Audio/Visual Documentary initiatives

- Community-centered engagement and outreach

Why Aggregate?

MDL + DPLA = Amplification
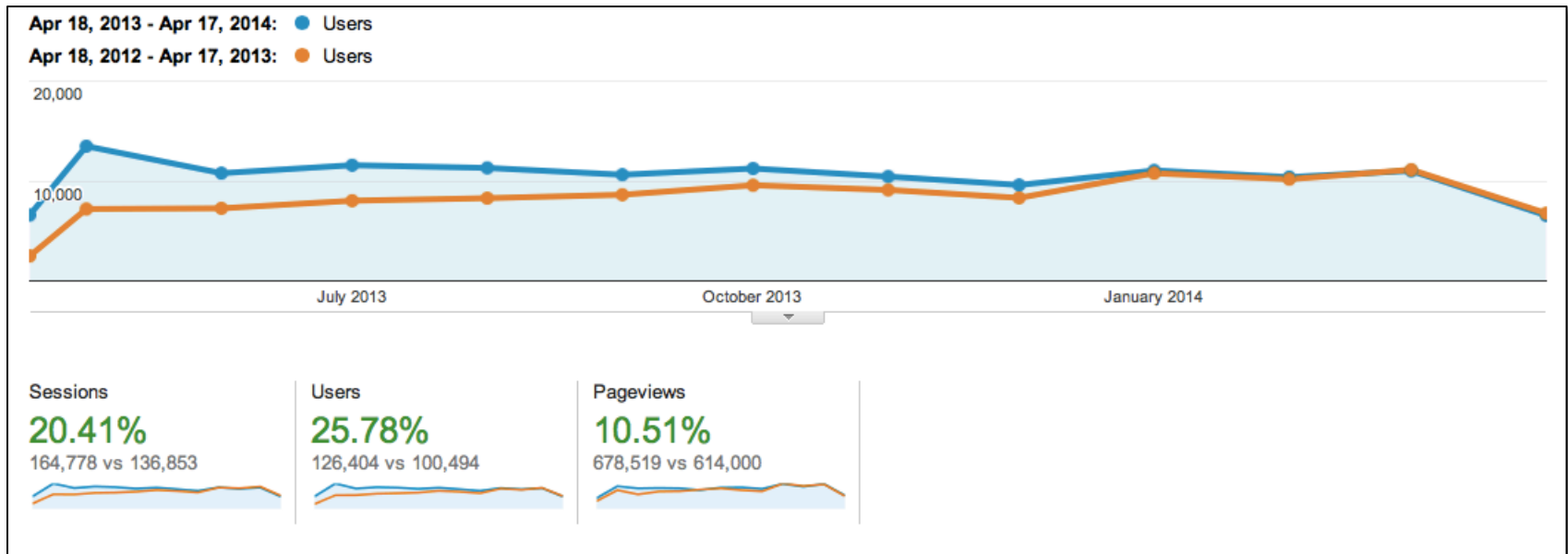
MDL + DPLA = Aggregation

Beyond the MDL Digital Collections
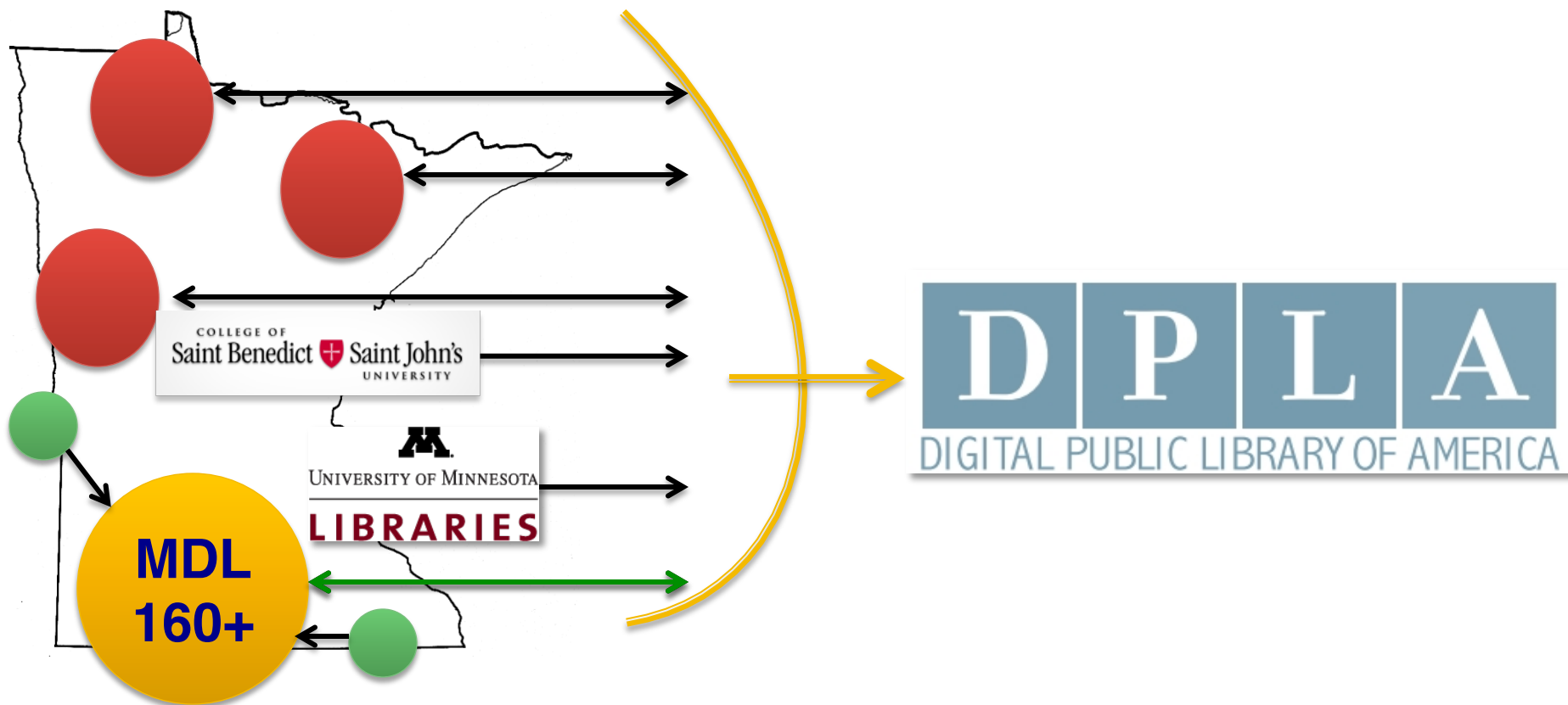
Data Aggregation

Gets Metadata
- …From Regional Partners
- …On a Regular Basis
- …Transforms it Into DPLA Metadata
- …Loads it Into A Local Database
- …Brokers it to DPLA
- …Without being added to *Reflections*.

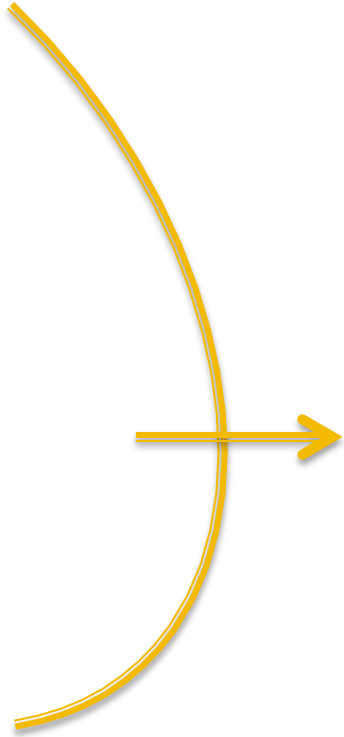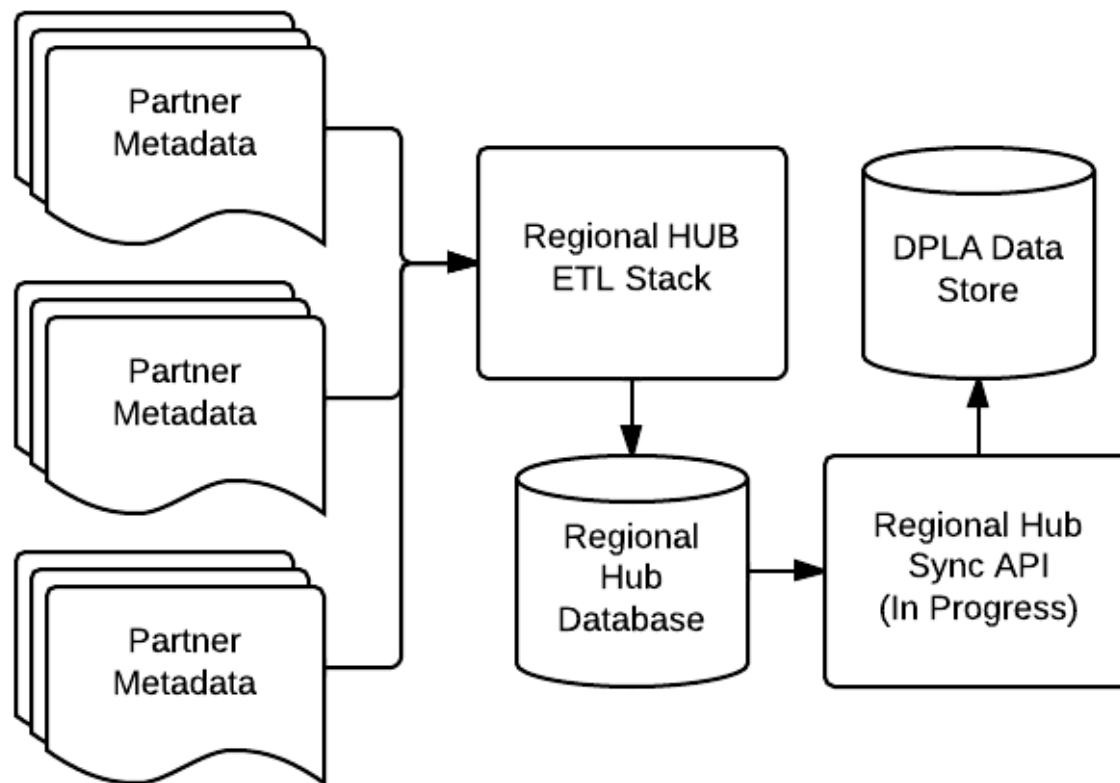# Data Aggregation

Process Overview

Data Aggregation

Import Jobs

Data Aggregation

Import Batch Management

Data Aggregation

Turning This

```
<record>
▼<header>
    <identifier>oai:cdm.csbsju.edu:CSBArchives/0</identifier>
    <datestamp>2009-11-03</datestamp>
    <setSpec>CSBArchives</setSpec>
  </header>
▼<metadata>
  ▼<oai_dc:dc xmlns:oai_dc="http://www.openarchives.org/OAI/2.0/oai_dc/" xmlns:dc="htt
    xsi:schemaLocation="http://www.openarchives.org/OAI/2.0/oai_dc/ http://www.openarch
    <dc:title>Aerial Photo of the College of Saint Benedict 1957</dc:title>
    <dc:description>looking NE</dc:description>
  ▼<dc:rights>
      Copyright© 2008 College of Saint Benedict Archives. All Rights Reserved.
    </dc:rights>
  ▼<dc:identifier>
      http://cdm.csbsju.edu/cdm/ref/collection/CSBArchives/id/0
    </dc:identifier>
  </oai_dc:dc>
</metadata>
```

Data Aggregation

Into This

```
"isShownAt": "http://cdm.csbsju.edu/cdm/ref/collection/CSBArchives/id/31",
"title": "HAB West",
"sourceResource": {
  "title": "HAB West",
  "identifier": "oai:cdm.csbsju.edu:CSBArchives/31",
  "description": null,
  "rights": "Copyright© 2008 College of Saint Benedict Archives. All Rights Reserved."
},
"provider": {
  "@id": "http://dp.la/api/contributor/csbsju",
  "name": "College of Saint Benedict & Saint John's University"
},
"identifier": "oai:cdm.csbsju.edu:CSBArchives/31",
"object": "http://cdm.csbsju.edu/utils/getthumbnail/collection/CSBArchives/id/31",
"originalRecord": {
  "header": {
    "identifier": "oai:cdm.csbsju.edu:CSBArchives/31",
    "datestamp": "2009-11-03",
    "setSpec": "CSBArchives"
  },
  "metadata": {
```

Data Aggregation

DPLA Hub Tech Stack:

- Ruby on Rails
- PostgreSQL 9.3 (with JSON Support)
- Sidekiq
- Redis

Our Goals

✓ State-/Region-wide digital library metadata aggregation

- Major new digitization projects

- Digital storytelling

- New Audio/Visual Documentary initiatives

- Community-centered engagement and outreach

Sharing our Story

Immigrant Narratives

The MDL proposes an initiative that gathers and digitizes extant oral histories from organizations across the state. These existing materials will be coupled with newly created or emerging stories that best document the rich tradition of immigration to this state.

A final web portal will weave together the audio, video, and images gathered into a single space where these stories will be gathered, saved, and shared in an openly and freely accessible manner.

Immigrant Narratives

MDL seeks to gather and share stories in three ways:

1. Provide for the **digitization and transcript creation** for previously documented stories that may now exist only in analog format.

2. Collaborate with local organizations with existing community relationships **to visually/orally document the immigrant communities** that make up our state.

3. Work with partners -- **Immigration History Research Center and the Center for Hmong Studies** -- to capture these stories.

Immigrant Narratives Interface

Immigrant Narratives

Minnesota's immigrant story

Over Time…

Across the state…

Numerous cultures…

July 1, 2011

October 1, 2

January 1, 201

Grand Forks

Fargo

Watertown

Sioux Falls

Mankato

Owatonna

Rochester

La Crosse

Mason City

Italian
Finnish
Russian
Hmong
Somali
Swedish
Greek
Latino
…and others.
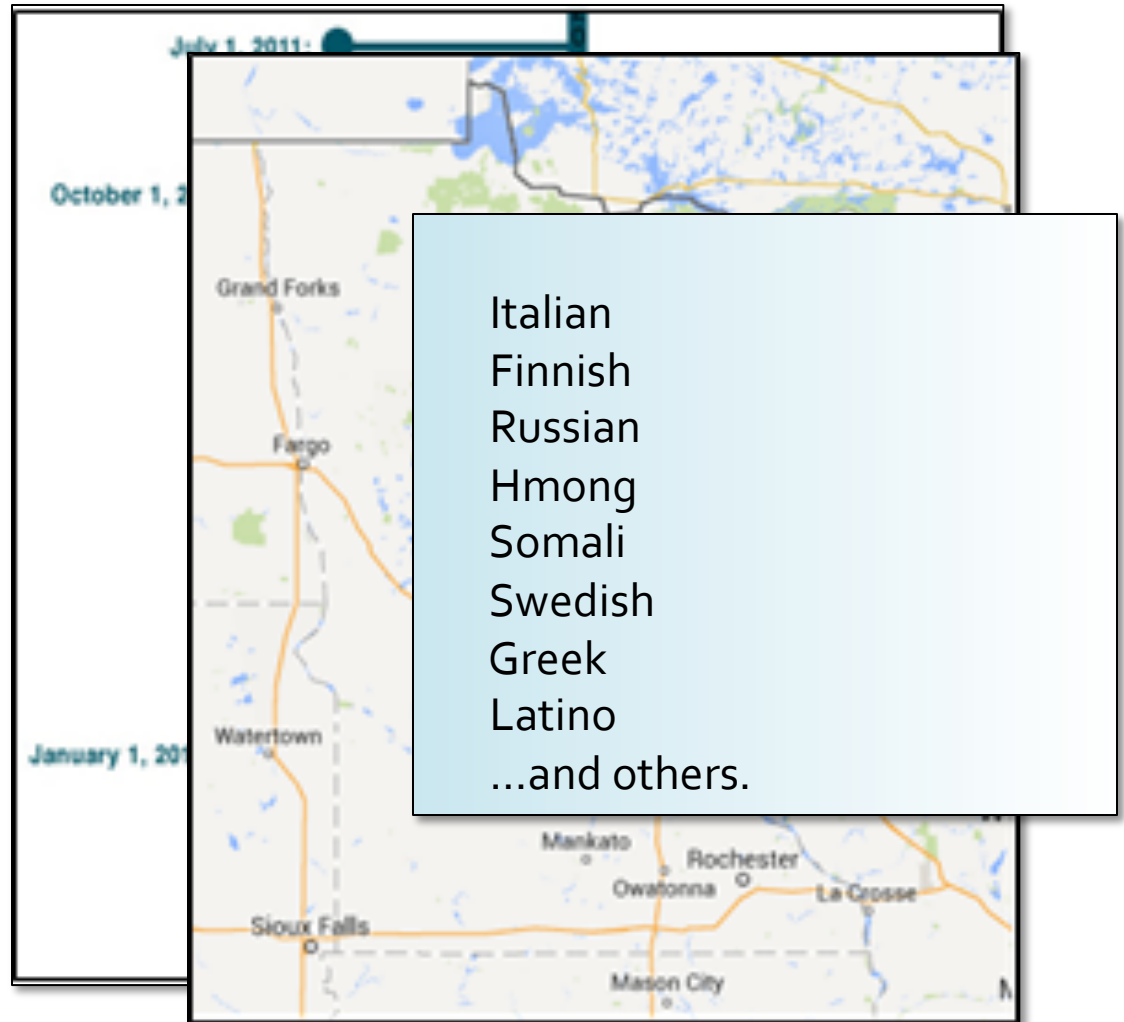
New Oral History Digitization

- **Digitize** existing analog oral histories.
- Incorporate stories **already in digital format**.
- Work with organizations to identify opportunities to **share their oral history collections** online.
- Allow for **cross-searching** of all materials.

Use existing MDL metadata for describing oral histories, but will need to include additional targeted information on Ethnicity, location. Need to be able to segment by date of interview, ethnicity of interviewee and geographical location of interview.

Collection 01

Collection 02

Collection 03

Collection 04

Collection 05

Collection 06

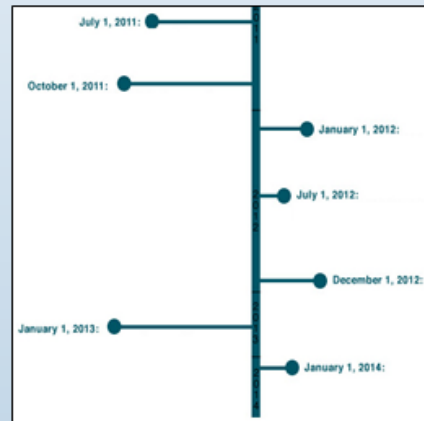Collection 07

Collection 08

Collection 09

Immigrant Stories

The purpose of **Immigrant Stories** is:

- partner with Minnesota's distinctive, yet understudied, immigrant and refugee communities to share their histories of migration and home in Minnesota through **digital storytelling** methods and technologies.
- create a **publicly accessible digital archive** of these stories and unique historical material.
- connect faculty, staff, and students to local communities of recent immigrants and refugees through **outreach activities**.
- train the next generation of undergraduate and graduate student researchers in digital storytelling, **community-engaged research**, and archive creation methodologies.

Immigrant Stories

Center for Hmong Studies
Concordia University – St. Paul

This project will employ Concordia University Hmong students in conjunction with a local filmmaker to train, and equip Hmong students to **interview 10 historically significant Hmong figures in the community**.

The following permanent resources that will become a part of the Center for Hmong Studies collection and made available for discovery and access through the MDL and DPLA.

- Full-length digital copies of all 10 interviews conducted.
- Full text transcripts of all interview.
- Film to be created by the filmmakers from these 10 oral history interviews.
- All materials will be licensed in accordance with Creative Commons.
- Center for Hmong Studies will hold an on campus or near campus community event to showcase these stories and the participants and students who helped to make it possible.

Discover & Amplify
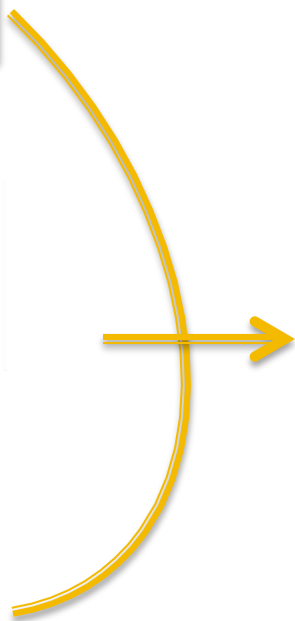
Public Library Partnerships Project

The DPLA working with existing Service Hubs will provide digital skills training for public librarians and connect them sustainably with state and regional resources for digitizing, describing, and exhibiting their cultural heritage content.

Through the project, the DPLA and its Hub partners collaborate towards the achievement several key goals:

- Train public librarians in digital skills related to content selection, rights, scanning, digital preservation, metadata, writing for the web, and digital exhibition curation.
- Foster sustainable partnerships between Hubs and public libraries.
- Create new pathways through the Hubs for public library participation in DPLA
- Develop, implement, revise, and publicly share curricula for digital skills training as models for future use.

more at >> http://www.mndigital.org/projects/plpp/

Questions?

Portrait of Dr. G. A. Dahl, Mankato, Minnesota, by George E. Keene. ca. 1900.
Blue Earth County Historical Society
http://reflections.mndigital.org/cdm/ref/collection/blue/id/1689