

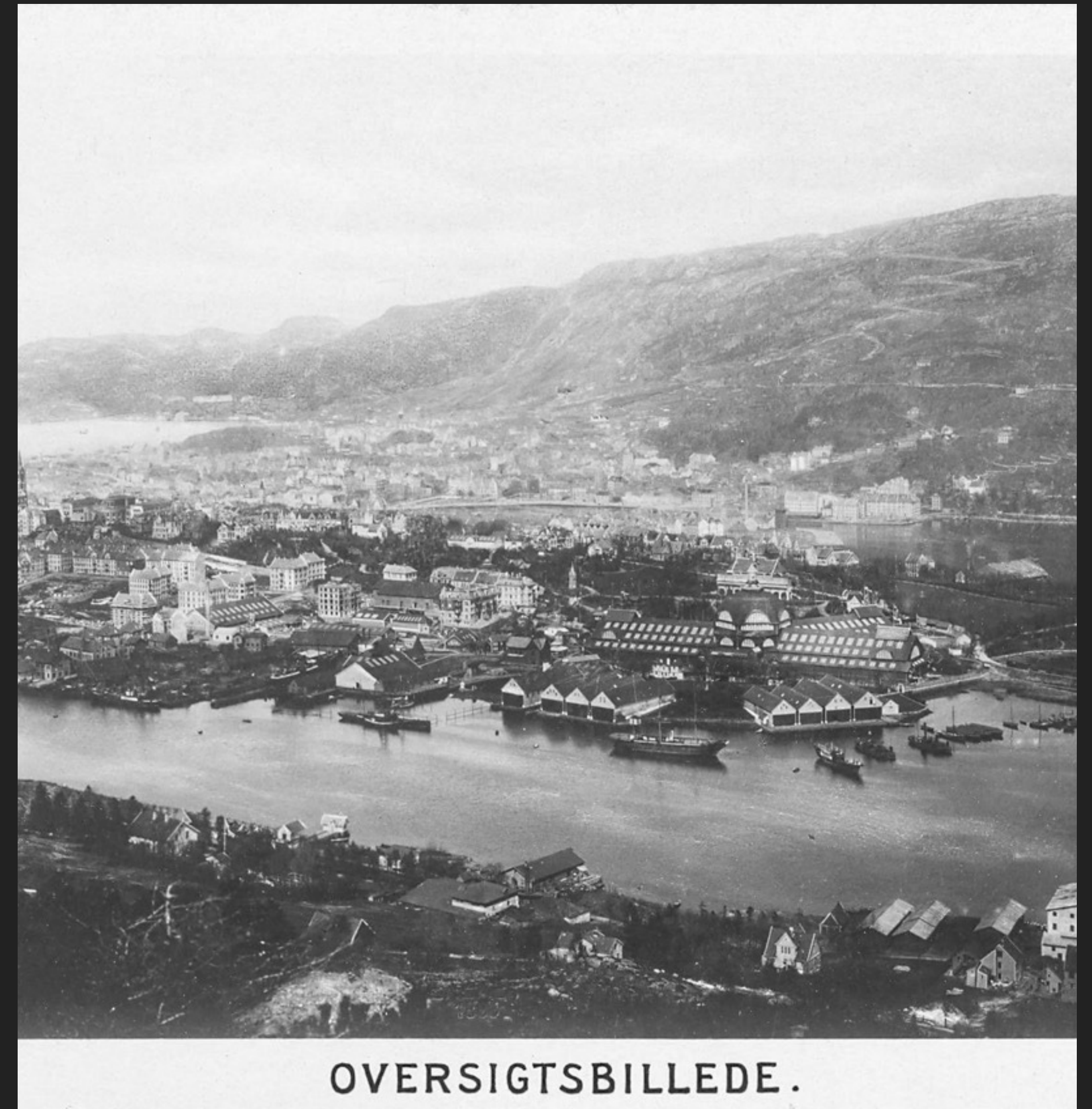
MARK A. MATIENZO, DIGITAL PUBLIC LIBRARY OF AMERICA / @ANARCHIVIST
ANNA NARUTA-MOYA, INDIGENOUS DIGITAL ARCHIVE / @ANNANARUTA
ACCESS TO THE WORLD'S IMAGES, NEW YORK, 10 MAY 2016

IIIF: ARCHIVAL USE CASES

OVERVIEW

- ▶ What is “Archival Material”?
- ▶ Trends in archival processing and digitization
- ▶ Examples of archival collections made available using IIIF
- ▶ Applications and benefits of IIIF for archival material
- ▶ Case study: Indigenous Digital Archive

Photo: Bergen Public Library (Norway)



WHAT IS “ARCHIVAL MATERIAL”?

- ▶ This presentation understands “archival material” as records held by archives, special collections, etc. that provide evidence relating to historical events or figures.
- ▶ Archival material exists in a variety of forms, including text (e.g. correspondence, registers), images (e.g. photographs, illustrations), maps, and beyond.
- ▶ Provenance-based relationships (e.g. materials from a common creator or activity) are essential in managing and using archival material.



TRENDS IN ARCHIVAL PROCESSING AND DIGITIZATION

- ▶ Rise of “More Product, Less Process” and iterative processing
- ▶ Application of MPLP to digitization
- ▶ Emergence of digitization grant programs designed to leverage processed collections
- ▶ Demand for “shovel-ready” projects
- ▶ Faster, better, cheaper, and more open and reusable

Photo: Library of Congress



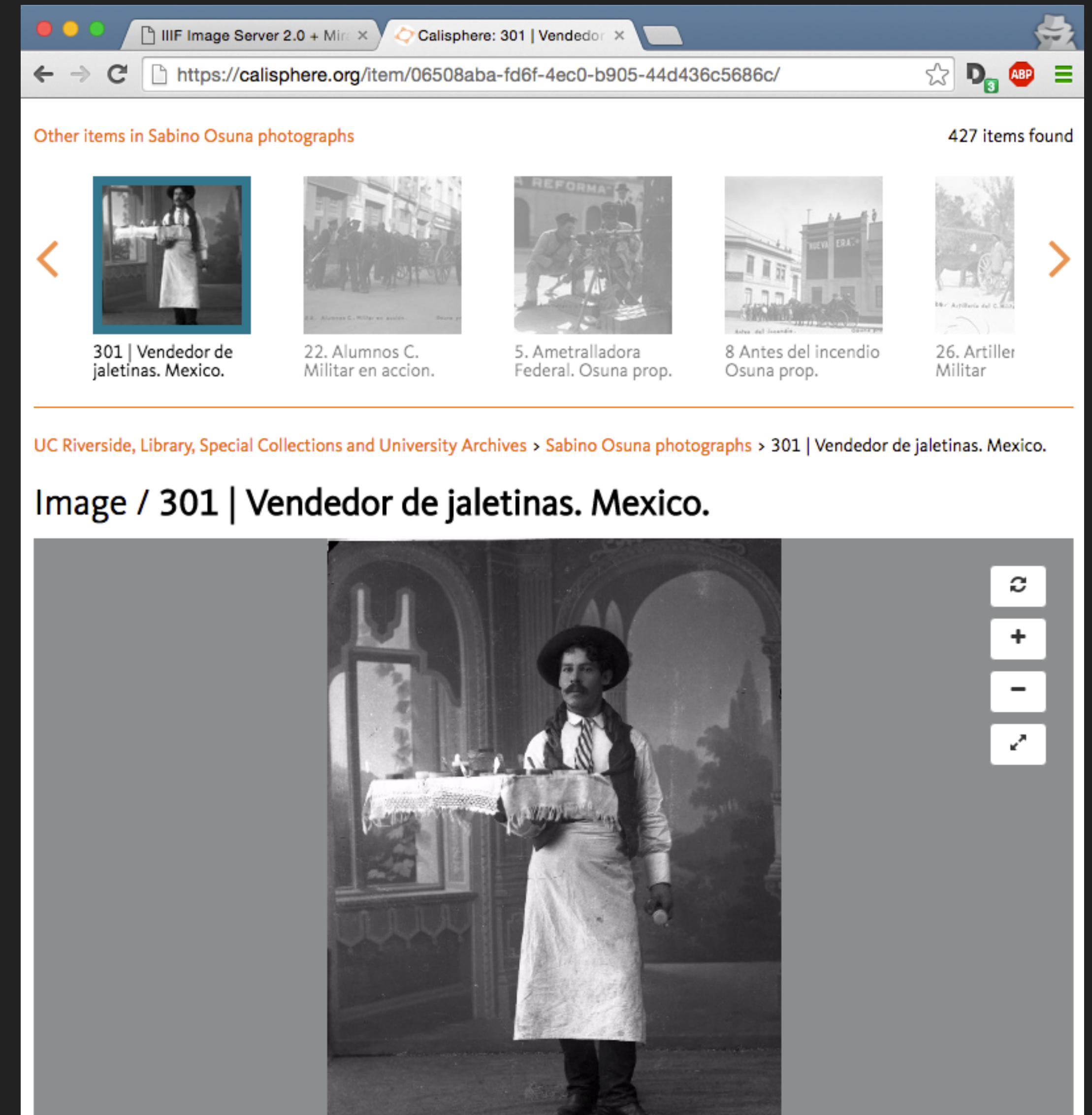


WHY NOT IIIF FOR ARCHIVES?

Photo: National Archives

EXAMPLES OF ARCHIVAL MATERIAL MADE AVAILABLE USING IIIF

- ▶ Boston Public Library
 - ▶ [Anti-Slavery collection](#)
 - ▶ [Spencer Grant collection](#)
- ▶ Duke University
 - ▶ [W. Duke Sons & Co. collection, 1880-1910](#)
 - ▶ [Benjamin & Julia Stockton Rush papers, 1766-1845](#)
- ▶ Leo Baeck Institute (via Internet Archive)
 - ▶ [Alfred Einstein collection, 1700s-1998](#)
 - ▶ [Many others](#)
- ▶ University of British Columbia
 - ▶ [Chung collection](#)
 - ▶ [Yip Sang collection, City of Vancouver Archives](#)
- ▶ University of California, Merced (via Calisphere)
 - ▶ [Henry O. Nightengale diaries](#)
- ▶ University of California, Riverside (via Calisphere)
 - ▶ [George Fujimoto diaries](#)
 - ▶ [Sabino Osuna photographs](#)
- ▶ University of Massachusetts Amherst
 - ▶ [W.E.B. Du Bois papers, 1803-1999](#)








APPLICATIONS & BENEFITS

Photo: Leslie Jones, Boston Public Library



persons. That is—allowing eight families to each house, and three persons to each family—upwards of 25,000 persons are at the mercy of five persons hereon to construct sanitary accommodation. During the last twelve months the five proprietors have been convicted and fined for sanitary nuisance.

UCD Digital Library  Collections ▾ Map ▾ Services ▾ About ▾ News Help  Login

Enter search terms 

Crop and Resize Images

Create custom images by cropping and re-sizing images for download or linking

Using the steps below, you can select all or a portion of an image, and either download it or create a persistent link to it.

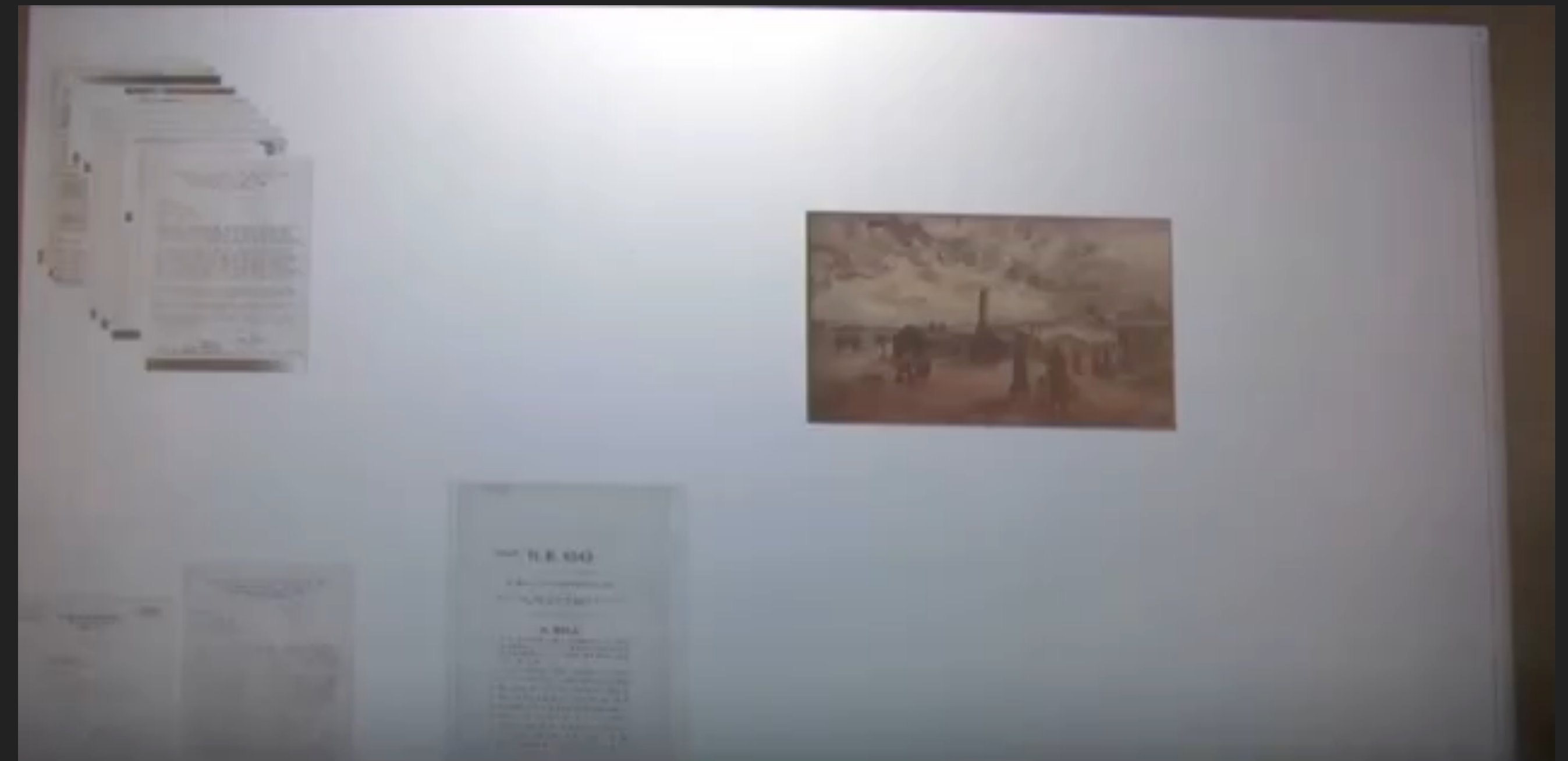
Please visit our [Help](#) page for further information.

1: Select Image Area

Use the mouse (or a fingertip) to select all or a portion of an image in the Crop Box (or enter numbers in the coordinates boxes below). Re-size the white box to cover the full image if you require the full image.

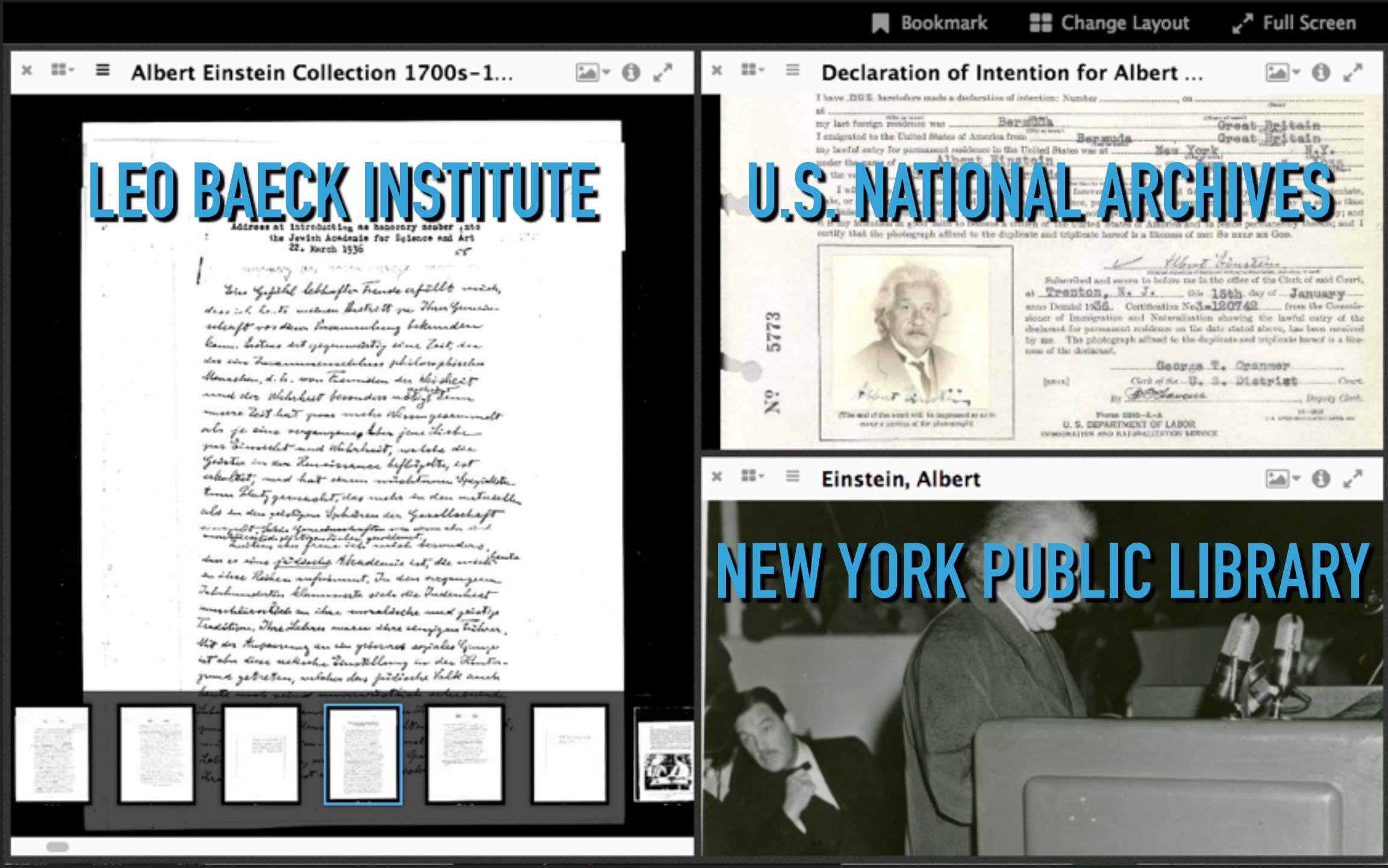
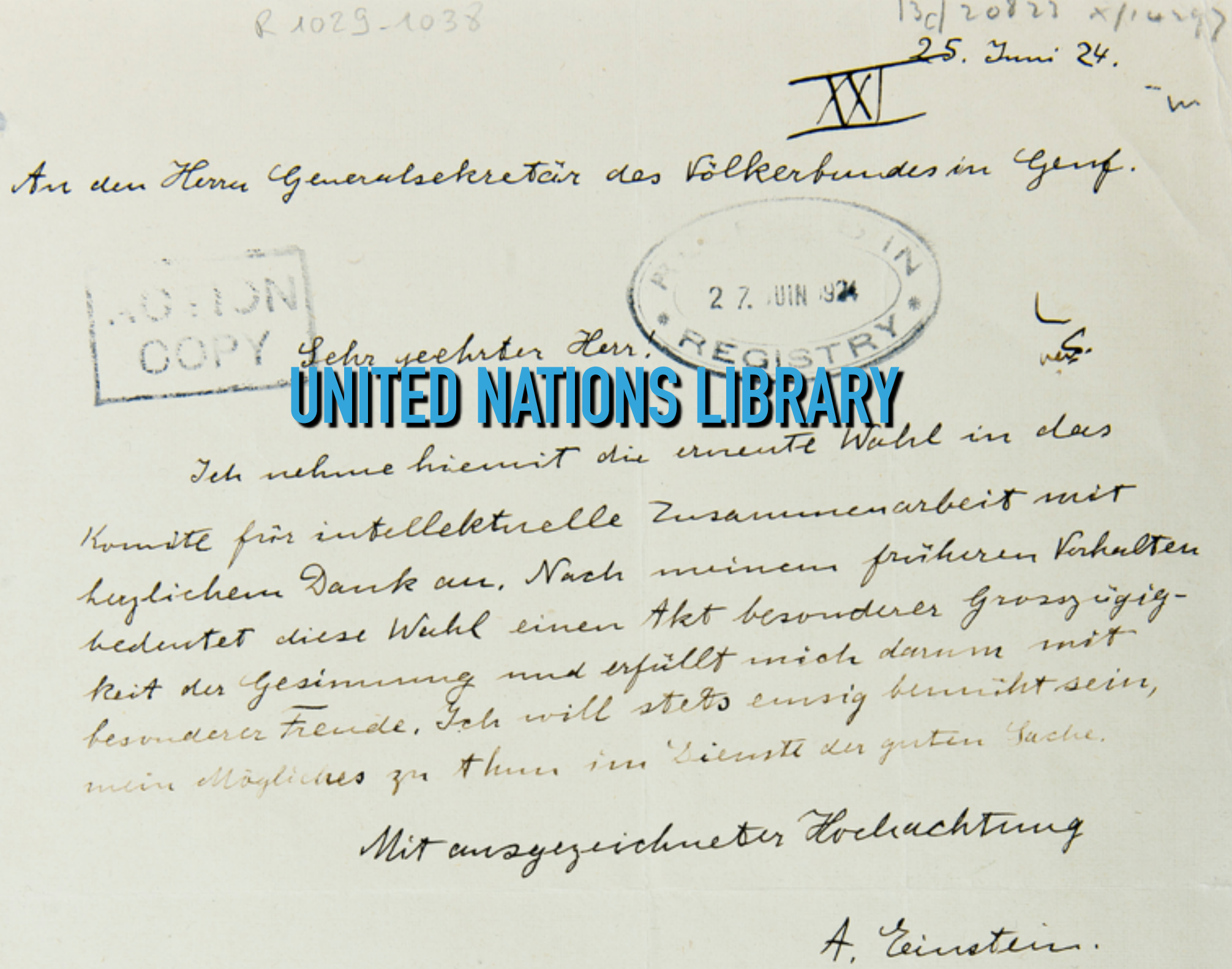
IMPROVING ACCESS AND REUSABILITY

Image and demo courtesy University College Dublin



IMPROVING ARCHIVAL PROCESSING

Augmented Processing Table image & demo, Ciaran Trace, UTexas iSchool



REUNITING DISPERSED MATERIAL AND CURATING

Source: [United Nations Office at Geneva Library](#) via [World Digital Library](#)

Santa Clara Pueblo,
Española, N.M.,

May 1, 1903

Mr. C. J. Crandall,
Supt. U.S. Indian Schools
Santa Fe, N.M.

Dear Sir:

The tribal statistics for
April are

Births 2

Deaths 0

Marriages 0

Very respectfully
Clara D. Long

Palace of the Governors Photo Arch...



aria Mart...



Fiesta para...



Fiesta para...



Fiesta para...

Stereoscopic views of Santa Fe, Ne...



Off the beaten path in New Mexico ...



DEMONSTRATION

TOPICAL CURATION OF RELATED MATERIALS

Visit the demos at <http://forens.es/iiifarchives>

THANK YOU!

Mark Matienzo
Digital Public Library of America
@anarchivist
mark@dp.la
<http://matienzo.org/>
<http://forens.es/iiifarchives>



Photo: Oregon State University

The Indigenous Digital Archive: Building effective access to and collaboration with mass- digitized archival documents related to Native peoples

Anna Naruta-Moya



Access to the World's Images #IIF
@AnnaNaruta NYC MoMA May 10, 2016

The Indigenous Digital Archive

Collaborative project of

- State of New Mexico's **Museum of Indian Arts and Culture** (MIAC)
- NM State Library **Tribal Libraries** Program
- **Indian Pueblo Cultural Center**, jointly run by all 19 Pueblo Tribes

Just received **IMLS National Leadership Grant** (thank you IMLS!)

Project kickoff Fall 2016 –
<http://native-docs.org>
@NativeDocs



Project originated from tribal constituents expressing need

Museum of Indian Arts and Culture ■ Laboratory of Anthropology



Santa Fe, New Mexico



Indian Arts & Culture

**World Café
session,
constituents
asked for:**

- More archives education
- More online accessibility



Museum of Indian Arts and Culture ■ Laboratory of Anthropology



**Tribal Libraries Program
New Mexico State Library**



Partnerships will:

- Spread training
- Create stronger links in communities to institutional resources



Cellicion, Zuni Traditional Dancers, at IPCC

IDA Project will:

Create online access to open government records otherwise unavailable to the people and communities impacted by the historical events they speak to

- Beginning with records related to land & the government Indian boarding schools, 1800s-1930s
- First sets of records focus on New Mexico tribes and government operations in the state
- Later to expand to include additional records, esp. since boarding schools intentionally removed youth from communities and dispersed them throughout country

Interest in
researching
Government
Indian Boarding
School records

- To understand impacts on communities today
- To interpret the records with the benefit of perspective of elders and others who attended or who have stories from their parents or grandparents





Einar E. Kvaran







Apache youth upon arrival, in a Carlisle Indian School “before” photo



The same Apache youth three months later, Carlisle “after” photo



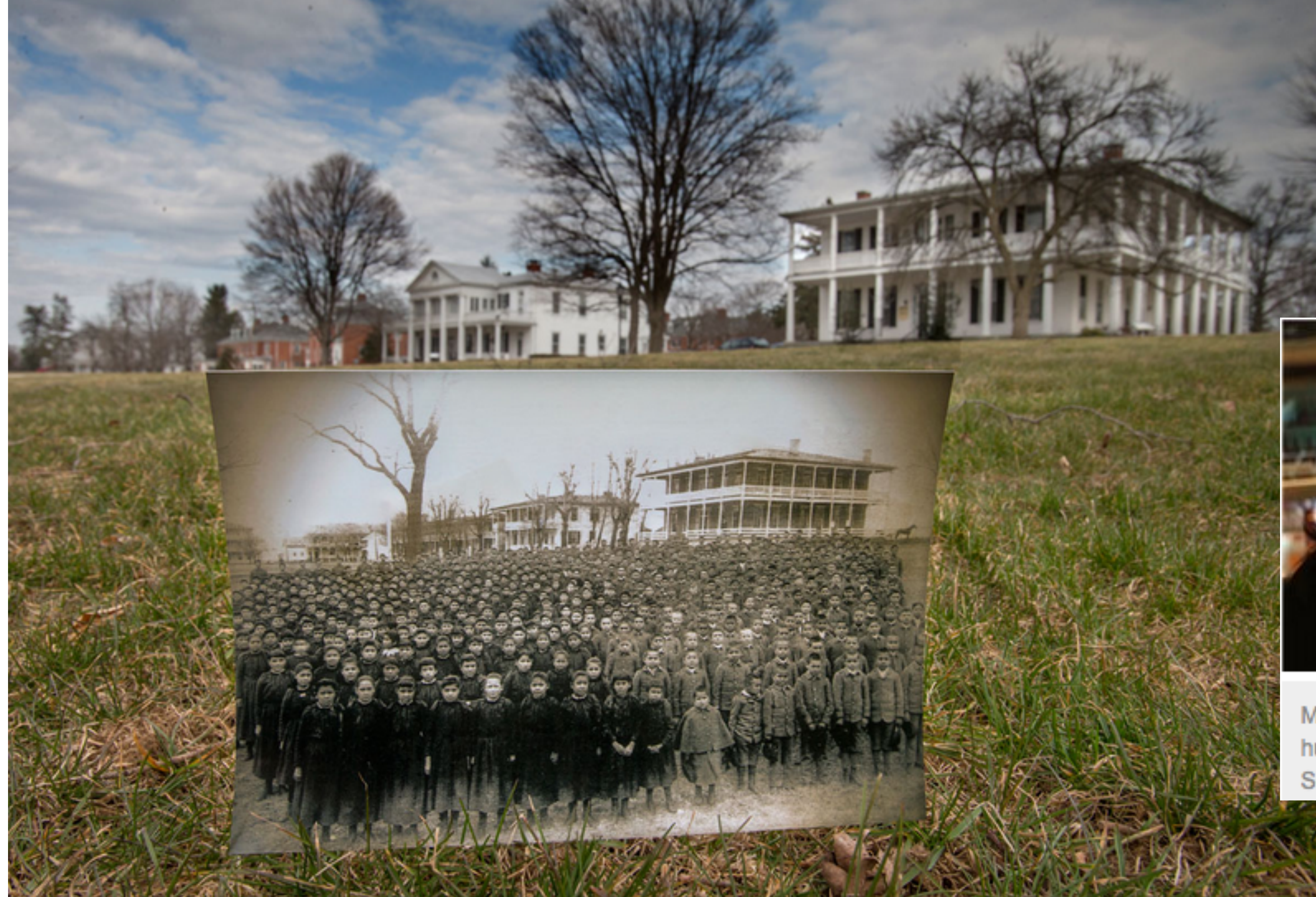
Over 10,000 Native American children from 140 tribes attended Carlisle Indian Industrial School during its nearly 40 years of operation.



In the US Indian Industrial School system at Carlisle, only 158 ever graduated.
(Class of 1901, detail)



186 students are buried there.



Philly.com CHARLES FOX / Staff Photographer, insert Cumberland County Historical Society



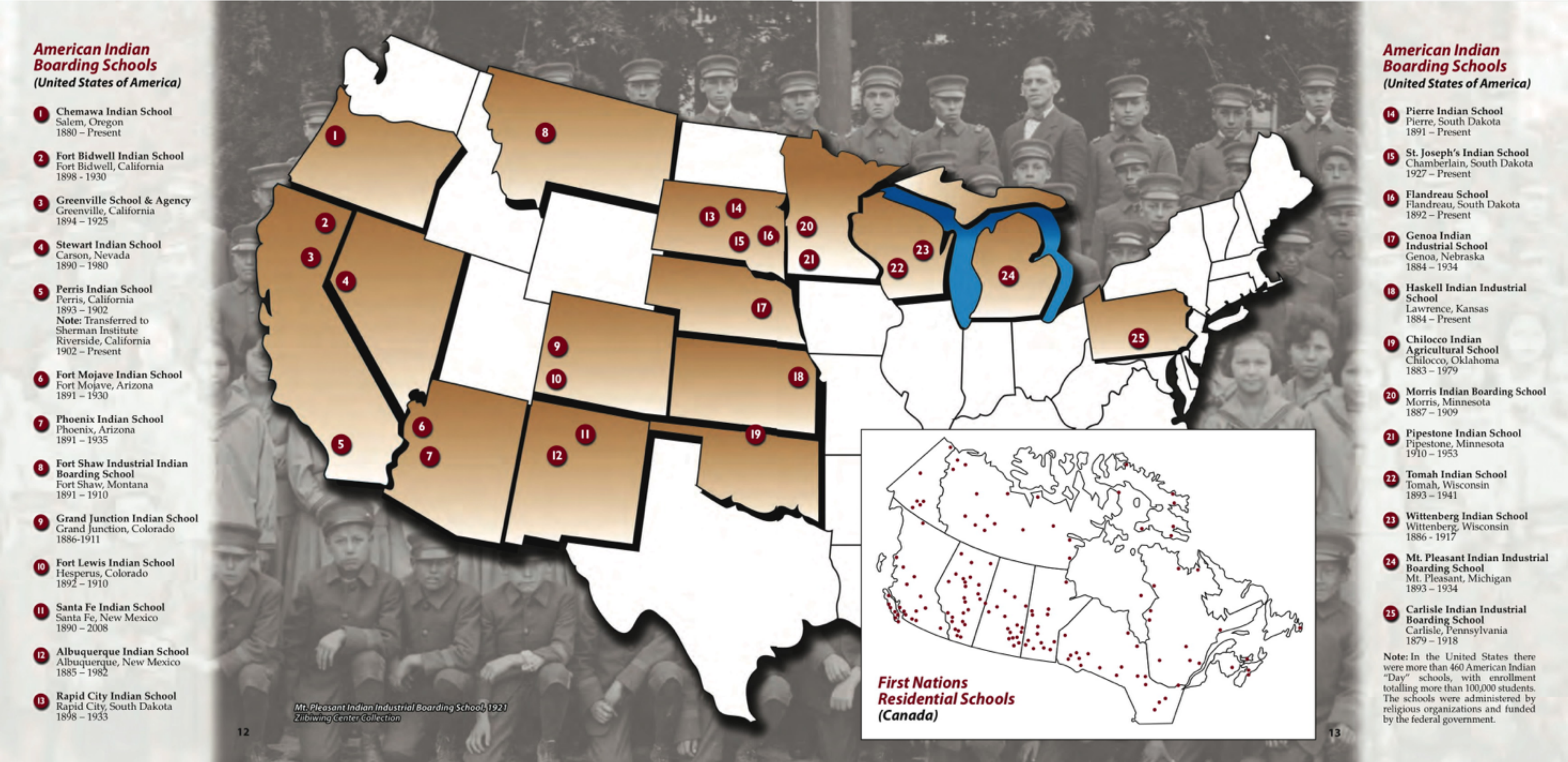
Marsha Small used ground-penetrating radar to discover hundreds of unmarked graves at the Chemawa Indian School's cemetery [Marc Dadigan/Al Jazeera]

Many basic facts are unknown:

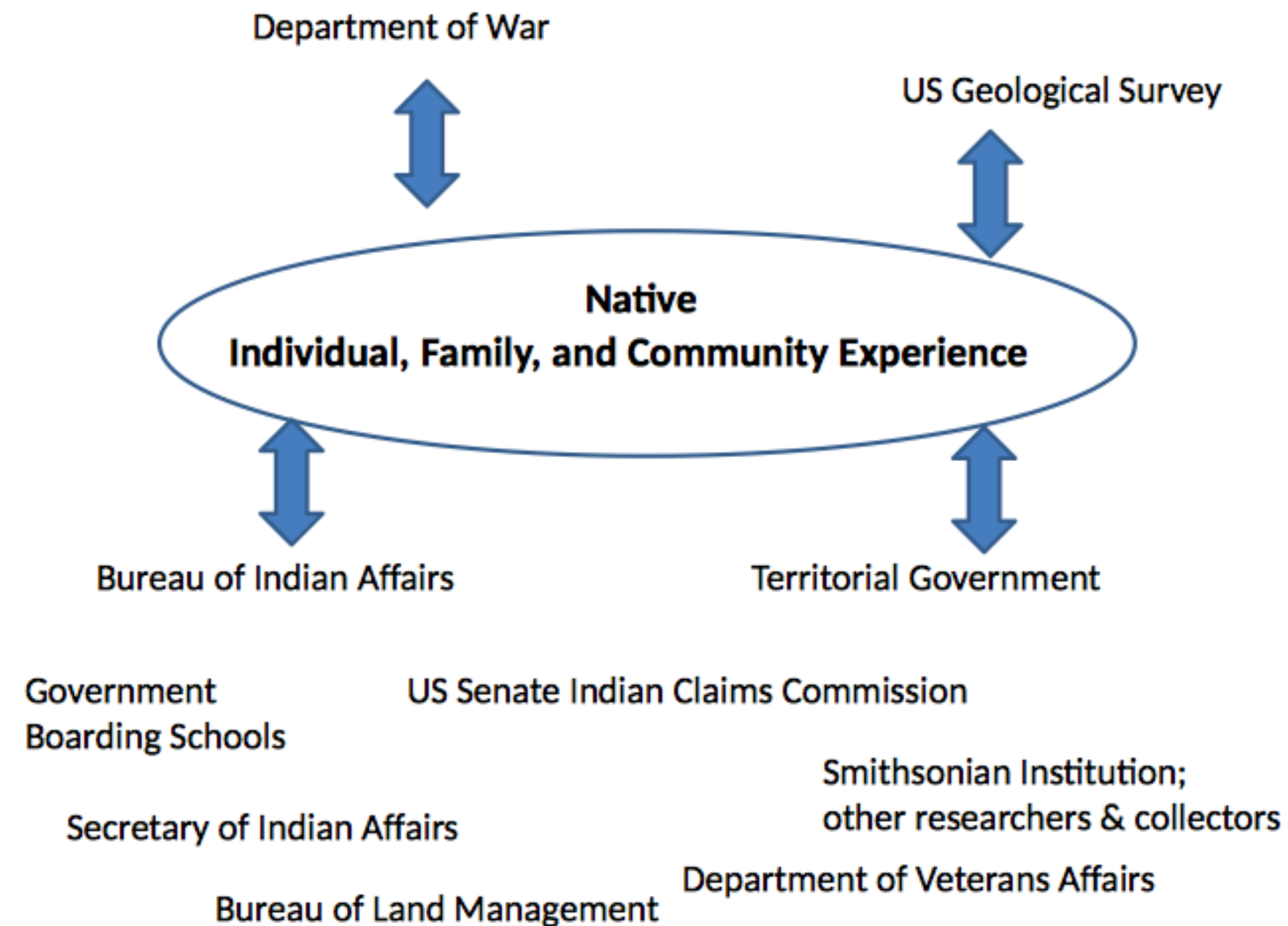
- How many children died at the schools?
- How did a newly discovered unmarked cemetery come to be?
- Others?



While there was some geographic clustering, Native youth from a community might be sent to any one of 25 government Indian Boarding Schools across the US



Different jurisdictions and other aspects of US government organization & policies mean researching a particular topic, person, event, or place **requires access to a large amount of records by different creators.**



Most of these records are currently available only in person, with some on microfilm.

Traditional way of posting such records online:

www.mtmemory.org/cdm/search/collection/p15018coll44

Search within results Search Advanced Search Favorites Help

Home Browse This Collection Artwork Audio Photographs Print Materials Contributors Educational Resources

Add or remove other collections to your search:

- ☒ Natives of Montana Archival Project
- ☐ Archival Photographs from the University of Montana
- ☐ Armstead, Montana
- ☐ Big Timber Pioneer Newspaper
- ☐ Billings - Historic Collection

Show 99 more

Narrow your search by:

Subject

Creator

Date Original



Waiting for www.mtmemory.org...

Browsing items in: Natives of Montana Archival Project (134 results)

Sort by: Title Display Options Save to favorites

Display: 100

1 2 Next

<input type="checkbox"/> Thumbnail	Title	Date Original	Subject	Description
<input type="checkbox"/> 	Central Classified Files 1907-1939 Blackfeet Agency 054 Record Group 75 - Box 12	1911; 1912; 1913; 1914; 1915; 1916; 1917; 1918	Indians of North America; Indians of North America -- Government relations; Tribal government; Indian councils; Indians--Treaties; Oil and gas leases; Grazing	Archival box containing Central Classified Files, 1907-39 Blackfeet 63920-1934-053 to 114521-1917-054
<input type="checkbox"/> 	Central Classified Files 1907-1939 Blackfeet Agency 054 Record Group 75 - Box 13	1918; 1919; 1920; 1921; 1922; 1923; 1924; 1925; 1926; 1927; 1928	Indians of North America; Indians of North America -- Government relations; Tribal government; Indian councils; Indian councils -- Elections;	Archival Box containing Central Classified Files, 1907-39 Blackfeet 12071-1918-054 To 13039-1928-054

www.mtmemory.org/cdm/compoundobject/collection/p15018coll44/id/104351/rec/1

Search

Page Flip View View Image & Text Download Print

Image Text Text Search...

RG 75 RECORDS OF THE BUREAU OF INDIAN AFFAIRS

CENTRAL CLASSIFIED FILES, 1907-39

BLACKFEET

63920-1934-053
To
114521-1917-054

Box No. 12 PI-163 E-121 HM 2003

1907-1939 Blackfeet Agency 054...

- Box No. 12 PI-163 E-121 HM 2003, including decimal classification 054

Folder 107072-1911 Blackfeet 054

- Folder 107072-1911 Blackfeet 054
- Letter from Blackfeet Tribal Business Council page 1
- Letter from Blackfeet Tribal Business Council page 2
- Letter from Commissioner of Indian Affairs
- Letter from Assistant Commissioner of Indian Affairs

The content is made available (Hooray!)

www.mtmemory.org/cdm/compoundobject/collection/p15018coll44/id/104351/rec/1

Central Classified Files 1907-1939 Blackfeet Agency 054 Record Group 75 - Box 12

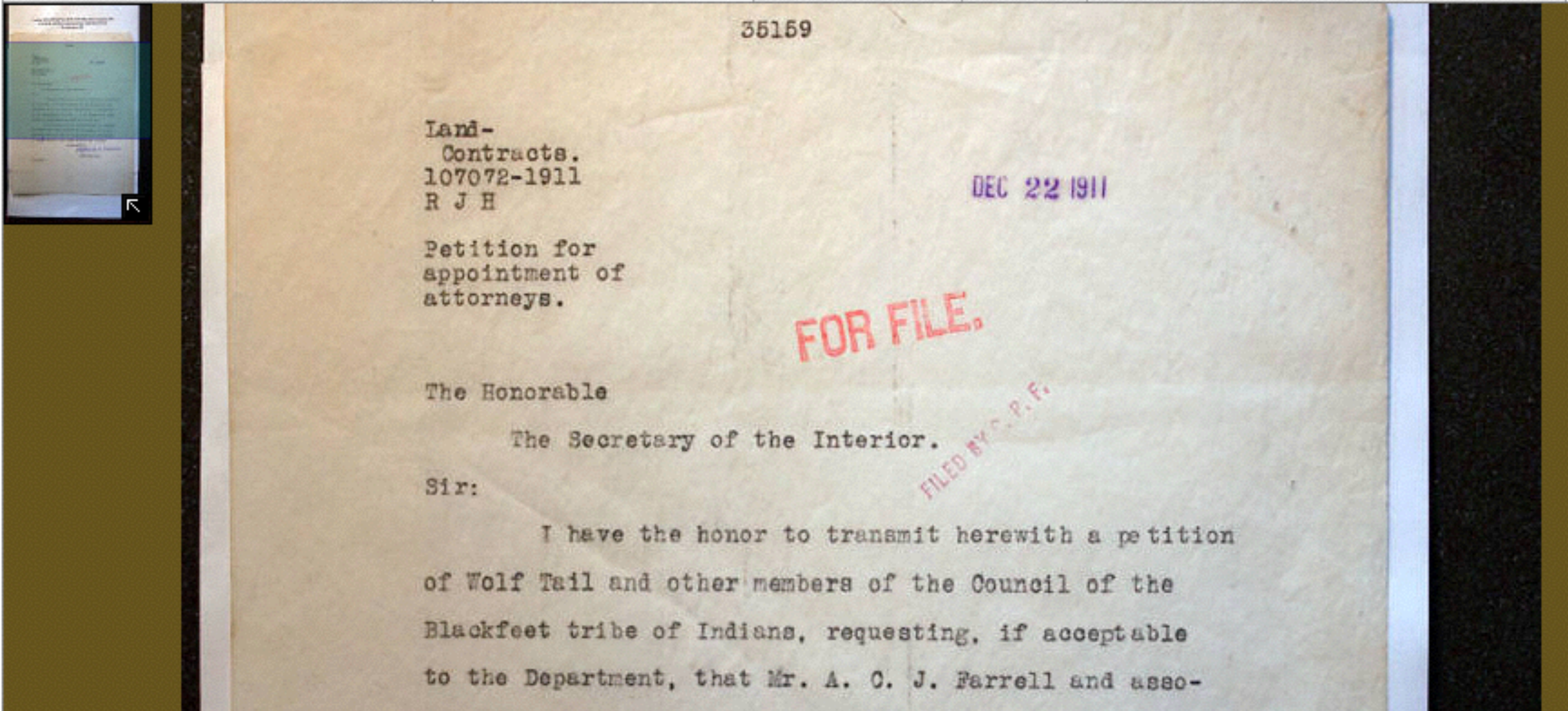
Letter from Commissioner of Indian Affairs

★ Save page ◀ Previous 5 of 316 Next ▶

View Description

Page Flip View View Image & Text Download Print

Image Text Text Search...



35159

Land-
Contracts.
107072-1911
R J H

Petition for
appointment of
attorneys.

DEC 22 1911

FOR FILE.

The Honorable
The Secretary of the Interior.

Sir:

I have the honor to transmit herewith a petition
of Wolf Tail and other members of the Council of the
Blackfeet tribe of Indians, requesting, if acceptable
to the Department, that Mr. A. C. J. Farrell and asso-

Content

Central Classified Files
1907-1939 Blackfeet
Agency 054...

Blackfeet 054

- Folder
107072-1911
Blackfeet 054
- Letter from
Blackfeet Tribal
Business Council
page 1
- Letter from
Blackfeet Tribal
Business Council
page 2
- Letter from
Commissioner of
Indian Affairs
- Letter from
Assistant
Commissioner of
Indian Affairs

- ...But before coming online each individual page was cataloged
- Takes lots of time, during which set of records still unavailable
 - Is the metadata generated doing so proportionally meaningful for researcher? Could that time have gone towards greater returns?

IIIF Advantage for Archives

Ability to create effective online access without
bottlenecking content at the institution

- International standard Open Annotation format can be used to crowdsource marking the beginnings of documents, or the beginnings of years of a long run of chronological documents
- While the documents are being worked on to add these guideposts, the documents are already available to the public online

The Paper version of “Big Data”

To trace an event, person, or group – need to be able to:

1. **Access large amount of records**, from different offices and jurisdictions
2. Access documents from location convenient to user – **geography must not be a barrier**
3. **Mark** a page, paragraph, sentence, or name in a set of documents **to return to later and to show others**
4. **Add keyword tags** that travel with the documents to create effective access
5. Requires knowledge of different localities and different histories – **Collaborative work a plus!**
6. Have **materials from multiple archives** join the conversation

For sustainability and scalability:

- Not create one-off solution that is difficult to support and isolates the material and work

1535

SANTA FE.

108

NARRATIVE

1914

RETURN TO STATISTICS (A. H.)

Large series can be mass
digitized, from microfilm or
originals

1536

DEPARTMENT OF THE INTERIOR

Statistics.
A H

UNITED STATES INDIAN SERVICE Dec. 5, 1914

Indian Industrial School and Agency,
Santa Fe, New Mexico.Circular No. 845.
Annual Report, 1914.Honorable Cato Sells,
The Commissioner of Indian Affairs,
Washington, D. C.

S i r : -

I have the honor to transmit herewith the Annual Report of the Santa Fe Indian Industrial School and Agency for the period July 1, 1913, to June 30, 1914.

In my Annual Report for the fiscal year 1913, and in special reports and communications during the fiscal year 1914, in the expositions made of existing conditions in the pueblos and of present problems in the conservation and administration of Pueblo resources I have emphasized the need of legislative and administrative action which will substitute the individual for the community interests among the Pueblo Indians.

The community life of the pueblos must be broken up before freedom of thought and action by the individual Indians can be expressed, and this can only be accomplished by the allotment in severalty to the Pueblo Indians to the lands now held and administered by them as communities. Allotment in severalty of Pueblo lands is the only satisfactory solution to the problems of existing conditions.

Cato

The surveys of the exterior boundaries of the Pueblo lands, together with surveys-out of lands adversely claimed within the boundaries of the Pueblo land grants, which were instituted last spring and are now being made, is the first step which of necessity must be taken in order that allotment in severalty may follow. These surveys should be the basis of suits in the Federal Court to quiet title on the Pueblo grants. As soon as the survey of a Pueblo grant is completed and the maps and plats prepared, suit to quiet title should be at once instituted in order that there should be no more delay than is necessary in securing the decree of the court, of which decrees these surveys will be a part, as to just what land within the exterior boundaries of Pueblo grants is still Indian land. When a suit has been brought

Z

i

https://archive.org/stream/SFIS-Annual-Reports-1923-1930/SFIS-annual-reports-1923-1930#page/n168/mode/1up

Santa Fe Superintendent's Annual Narrative and Statistical Reports, including US Indian Boarding School at Santa Fe (Santa

ANNUAL REPORT, SANTA FE NON-RESERVATION BOARDING SCHOOL

June 30, 1926.

Section IV - Industries

Industrial work is carried on at the school for the double purpose of teaching the children improved methods of **productive** enterprise and getting routine work done. The cashvalue of the routine work accomplished by the pupils every year would be a very considerable figure. For example, during 1926, my boys carted fourteen hundred tons of coal from the railway terminal a mile away and shoveled it into the coal bins. (They also shoveled it from the cars into the wagons.) They, under the supervision of our school carpenter, poured seven thousand cubic feet of concrete for the footings of one building alone. All that was over and above what had ever been required of them before. Had all that work been done by hired labor, etc., the outlay would have been a pretty penny.

In the autumn of the calendar year 1925, we had nothing in the way of farm crops. As stated in my report

Manual labor:
students carted
1400 tons of
coal, 7000
cubic feet of
cement

Crowdsourced and managed tagging and annotation help create effective navigation

Real Estate Have an orchard of trees which
number about 500 trees, House, land for ploughing,

8. Do you have money in the bank? No Sir How much? none

9. Have you been in the Indian Service? In what positions? How long in each?

No Sir. --- no position --- not any
time

10. What other positions have you held since leaving Carlisle? none

11. Have you done anything for the betterment of your people? Write fully.

Yes Sir, I have done the very best I
could afford to do. Of course it is
hard for any person to stand when the
means are small.

I have been trying by examples to show
them the advantages they would have
if they should send their boys and girls
to school.

I took teachers' examination last
week. I do not know the result yet.
In the part of the reading, I have

not neglected my opportunities, the other
studies of I do not have them, as algebra
Book Keeping, Physiolog, Physical Geography,
all the other studies I have them here
at my home. And this is one of the
ways, best that I know, to show my people
that by studying and improving my
opportunities I can work myself to the front.

12. Tell me anything else of interest connected with your life. Perhaps you

know that the Indians of New Mexico
can talk Spanish language. I have been
studying Spanish Grammar, and this
of course is pointing out to many that
know me personally that I can talk
English with good pronunciation.

I have served as an interpreter in
some offices, on very important transac-
tions, between Spanish Americans
and English speaking people.

I have a blacksmith shop which I
bought about five years ago, I have
not been able to complete it although
I can do pretty good work in the shop
as a blacksmith, I have made many
iron brands, of different letters

OCR potential often limited by document type; and keywords may not appear in text

Pupils enrolled in _____ nonreservation
 school during current fiscal year. Santa Fe, New Mex. 1919-20

NAME. (Group pupils by reservations.)	TRIBE.	SUPERINTENDENCY, OR WHEN UNKNOWN, GIVE POST OFFICE, COUNTY, AND STATE.
Bernal, Jose	Taos Pueblo	North Pueblo Day Schools
Concha, Antonio	"	"
" Jose de la Cruz	"	"
" Juan	"	"
" " D.	"	"
" Manuel	"	"
Gomez, Toribio	"	"
Lucero, Jose de la Cruz	"	"
Lujan, Santiago	"	"
" Tomas	"	"
Lucero, Teofilo	"	"
Mirabal, Felipe	"	"
" John	"	"
Mondragon, Don	"	"
" Francisco	"	"
Ortiz, Jose M.	"	"
" Maria	"	"
Reyna, Juan	"	"
Romero, Agustin	"	"
" Fernando	"	"
" Jose de la Cruz	"	"
" Telesfor	"	"
Sandoval, Jose	"	"
" Lupe	"	"
Archuleta, Susana	"	"
Bernal, Reyesita	"	"
Concha, Anita	"	"
" Cristina	"	"
Cordoba, Lorencita	"	"
Herrera, Tonita	"	"
Lucero, Manuelita	"	"
" Nancy	"	"
Lujan, Andrea	"	"
" Eva	"	"
" Julianita	"	"
" Maria	"	"
" Marina	"	"
" Rafaelita	"	"
Marcos, Ignacia	"	"
" Jesusita	"	"
Martinez, Emily	"	"
Mirabal, Paulita	"	"
Mondragon, Anita	"	"
" Rose	"	"
Ortiz, Emily	"	"
Romero, Ignacia	"	"
" Rofinita	"	"

Pupils enrolled in _____ nonreservation
 school during current fiscal year. Santa Fe, New Mex.

NAME. (Group pupils by reservations.)	TRIBE.	SUPERINTENDENCY, OR WHEN UNKNOWN, GIVE POST OFFICE, COUNTY, AND STATE.
Romero, Santanita	Taos Pueblo	North Pueblo Day Schools
" Teresita	"	"
Sandoval, Cesarita	"	"
Swazo, Isabel	"	"
Trujillo, Emilia	"	"
Zamora, Rafaelita	"	"
Duran, Antonio	Picuris Pueblo	"
" Marcelino	"	"
Martinez, Evaristo	"	"
Simbolo, Cruz	"	"
" Manuel	"	"
Duran, Tonita	"	"
Lopez, Cora	"	"
" Lucy	"	"
" Reyesita	"	"
Martinez, Jesusita	"	"
" Laura	"	"
Mermejo, Helen	"	"
Simbolo, Anselma	"	"
Vargas, Alice	"	"
Abeyta, Juanito	San Juan Pueblo	"
Archuleta, Jose	"	"
" Reyes	"	"
" Santiago	"	"
Atencio, Jose Manuel	"	"
Cata, Alberto	"	"
" Dionisio	"	"
" Fructuoso	"	"
" Jose Luis	"	"
" Juan de los Reyes	"	"
" Manuel	"	"
" Marcos	"	"
" Edward	"	"
" Jose	"	"
Chavez, Antonio	"	"
Cruz, Francisco	"	"
" Leandro	"	"
" Manuel	"	"
" Placido	"	"
Gabaldon, Jose Manuel	"	"
Garcia, Antonio	"	"
" Lorenzo	"	"
Maestas, Felipe	"	"
Montoya, Amadeo	"	"
" Eulogio	"	"
" Guadalupe	"	"
" Jose	"	"

Linked data to build collaborative info

Indigenous Digital Archive Project

- Create an **opensource software toolkit** extending capacities of Omeka-S opensource Content Management System
 - => IIIF compatibility
 - => Open Annotation format for crowdsourced / community sourced tagging, annotation tied to relevant portions of documents (in linked data framework)
- Create **IDA usecase** of open government documents related to Native people
 - Ingest and work with at least 78 linear feet of records in first phase
 - Conduct IDA Fellows program, open to members of the 23 tribes of New Mexico plus Hopi; support additional online volunteers
 - Kicks off fall 2016 with community meetings to inform user interface design
 - For news by email, sign up at native-docs.org

Indigenous Digital Archive

<http://native-docs.org>

info@native-docs.org

[@NativeDocs](#)

[@AnnaNaruta](#)