

Analyzing and Visualizing Big Cultural Data

“shaping tools & tools that shape us”

Richard Marciano

Fifth International Symposium

We Shape our Tools and our Tools Shape Us

Feb. 6, 2013

<http://salt.unc.edu>

<http://digitalinnovation.unc.edu>

“Size Matters: Big Data, New Vistas in the Humanities and Social Sciences”:

DataEdge, UC Berkeley May 31, 2012

Geoffrey Nunberg Panel:



“Something seems to happen, people feel, when you get to that 13th zero, or 15th zero, or 18th zero, or 21st zero, wherever it is, and bingo it’s the petabyte age, **it’s the age of big data.**”

It’s like combing your hair, you just comb, and comb, and comb, and all of a sudden **it’s like big hair.**”

“The question is whether the advent of big data changes the way we do social science and also what role social scientists will play...”

12/31/2012 Forbes article by Edd Dumbill: “Big Data, Big Hype: Big Deal”

“Big data is an imprecise term. As such it’s a huge boon to marketers... not everyone is pleased with the “bigger is better” argument. “Big data” really means “smart use of data”.

- Big Data is the **Convergence** of the 3 “V’s”¹

- **Velocity**

- Moves at very high rates
- *Valuable* in its temporal, high velocity state

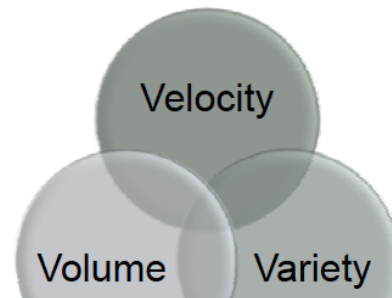
- **Volume**

- Fast-moving data creates massive historical archives
- Valuable for mining patterns, trends and relationships

- **Variety**

- Structured (logs, business transactions)
- Semi-structured and unstructured

3 V's of Big Data



Research Issues:

- How to manage the speed of growth?
- How to archive?
- What to archive?
- How to access over-abundance?



Big Data is a Big Deal

White House announcement:

<http://www.whitehouse.gov/blog/2012/03/29/big-data-big-deal>

Big Data Across the Federal Government:

http://www.whitehouse.gov/sites/default/files/microsites/ostp/big_data_fact_sheet_final_1.pdf

More than \$200M in new commitments (NSF, HHS/NIH, DOE, DOD, DARPA, USGS)

Goal: “improve the ability to extract knowledge and insights from large and complex collections of digital data”.

- ❖ **DataNet**

- *Long-term preservation and access of data*

- ❖ **Software Infrastructure for Sustained Innovation (SI²)**

- ❖ **Digging Into Data Challenge** (NSF/NEH/IMLS & JISC)

- *Computational Humanities*

- ❖ **Cyber-Enabled Discovery and Innovation (CDI)**

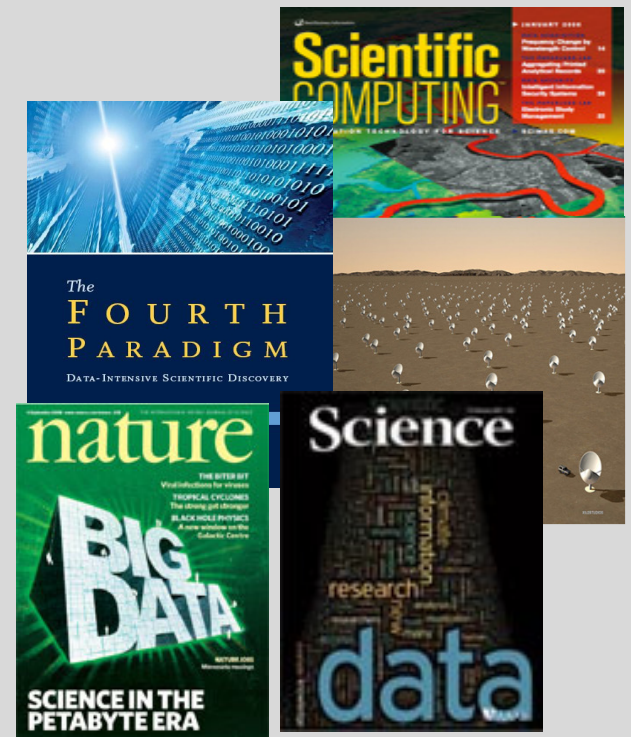
- *Data enabled science and engineering*

- ❖ **Core Techniques and Technologies for Advancing Big Data Science & Engineering (BIGDATA)**

- ❖ **Data Infrastructure Building Blocks (DIBBs)**

- ❖ **DataWay**

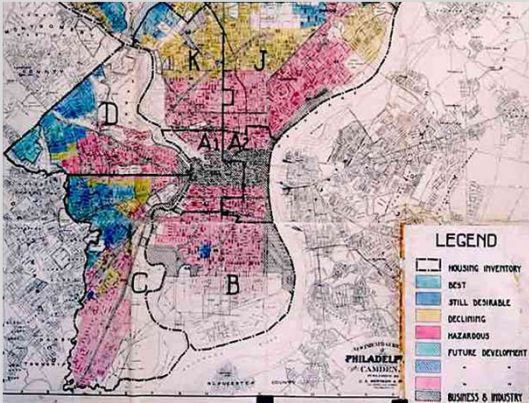
- *National Infrastructure for Heterogeneous Data*



“The Unintended Consequences”* of Big Data

Allistair Croll: “Big Data is our Generation’s civil rights issue, an we don’t know it.”

1. “Personalization” is another word for discrimination. We’re not discriminating if we tailor things to you based on what we know about you — right? That’s just better service.



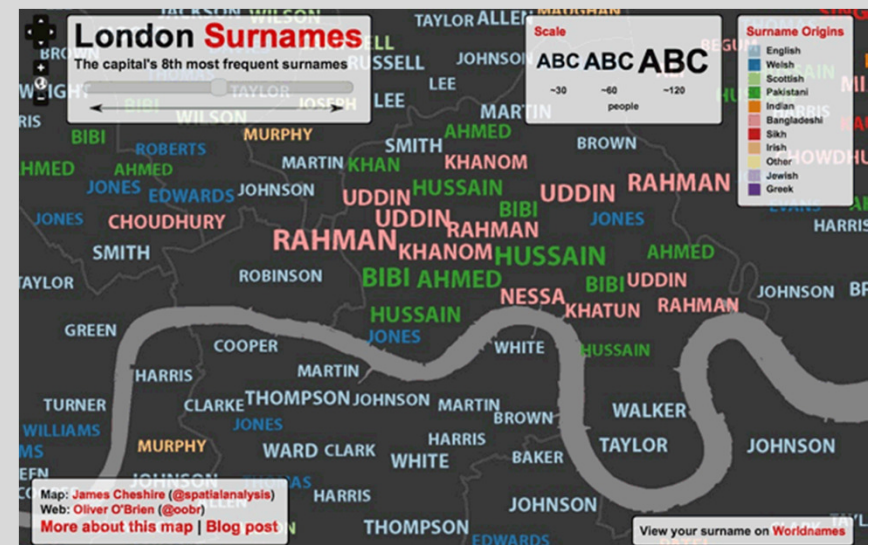
2. HOLC & Fair Housing. When bank managers tried to restrict loans to residents of certain areas (known as redlining) Congress stepped in to stop it (with the Fair Housing Act of 1968). They were able to legislate against discrimination, making it illegal to change loan policy based on someone's race.

*Home Owners' Loan Corporation (HOLC) map showing redlining of "hazardous" districts in 1936. **see: next slide***

3. Music selection and sharing with friends could allow to guess a person's racial background and deny a loan.

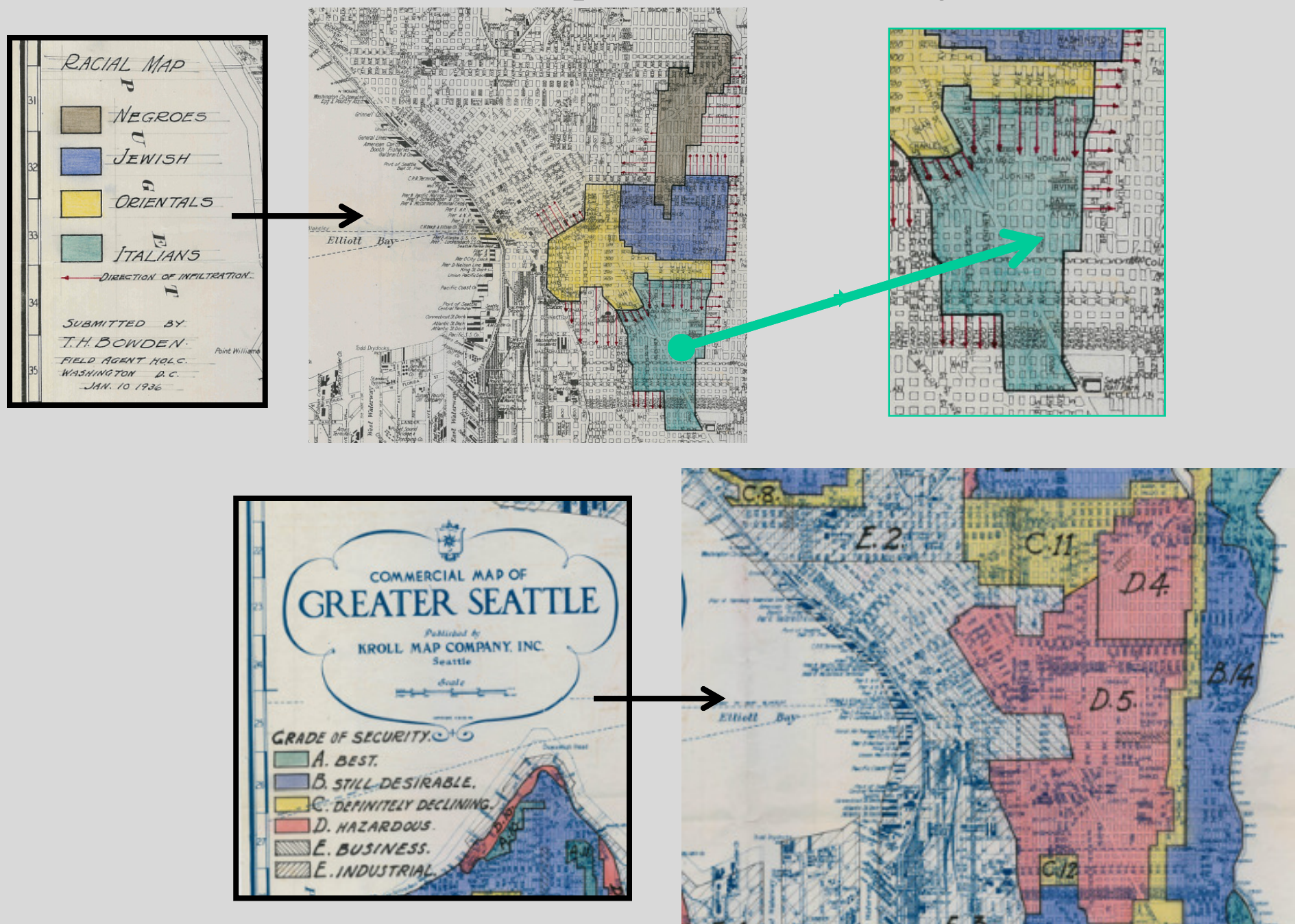
4. Publicly available last name information can be used to generate racial boundary maps.

From the Mapping London project



* See Barbara Endicott-Popovsky's talk

The “Unknown Intended Consequences” of Redlining in Seattle in 1936



Research areas

Per IEEE BigData 2013, research topics include:

- Big data science and foundations (*models, standards, data and info quality, ...*)
- Big data infrastructure (*clouds, grids, Hadoop, software, ...*)
- Big data management (*data preservation, data provenance, crowdsourcing, ...*)
- Big data search and mining (*visualization analytics, algorithms, ...*)
- Big data security & privacy (*intrusion detection, threat detection, privacy threats, ...*)
- Big data applications (*analytics, services, ...*)

My research areas:

- records in the cloud,
- access to big heterogeneous data,
- federated grid/cloud storage,
- visual interfaces to large collections,
- policy-based frameworks to automate content management,
- distributed cyberinfrastructure to enable data sharing,
- big cultural data.

Records in the Cloud



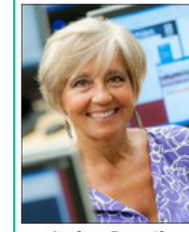
Delegating to cloud providers the responsibility for security, accessibility, disposition and preservation.

Kickoff meeting last Tuesday:

Collaborators from:

- across 4 countries
- iSchools, Law Schools, Business Schools, Information Technology and Media Dept.

Researchers



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Victoria Lemieux

Co-investigator
Assistant Professor, School
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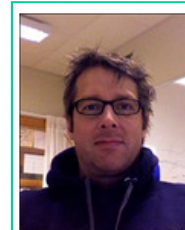
Anthony Sheppard

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UBC



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Co-investigator
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**Barbara Endicott-
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Basma Makhoul Shabou

Collaborator
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Business Administration,
University of Applied
Sciences Western
Switzerland



Yale Li

Collaborator
Research Director, Cloud
Security Alliance, Seattle
Chapter

Big Cultural Data ?

\$5M / 5 year Mellon Foundation & UNC Digital Humanities Initiative (Jul. 2012)

- Funding of a Digital Innovation Laboratory (DIL)
- Targeted hiring of three tenure-track faculty members;
- Joint faculty fellowships with the Digital Innovation Lab and the Institute for the Arts and Humanities
- Graduate and postdoctoral fellowships;
- Grants for developing new courses;
- Workshops for faculty and graduate students;
- A graduate certificate for Ph.D. students;
- **Exploration of an undergraduate minor in big data studies.**

Big Cultural Data ?

What is it and why should archivists care?

1. Cyber-Infrastructure for Billions of Electronic Records (CI-BER)

NATIONAL ARCHIVES & RECORDS ADMINISTRATION (NARA)

A joint agency sponsored testbed notable for its application of a multi-agency sponsored cyber infrastructure and the National Archives' diverse 87+ million file collection of digital records and information now active at the Renaissance Computing Institute. **This testbed will evaluate technologies and approaches to support sustainable access to ultra-large data collections.**

2. 1940 Census Data

3. Historical City Directories Data

4. Historical Residential Segregation Data

1. CI-BER Project

- Large Data Analysis and Visualization symposium (co-located with VisWeek 2011) in Providence, RI, Sep. 23-25
 - slideshare.net: “A System for scalable visualization of geographic records”, Jeff Heard & Richard Marciano
 - Indexing & visually browsing archival records
 - Large archives of geographic records: 100M+
 - CI-BER: CyberInfrastructure for Billions of E-Records
 - Funded by the National Archives / Applied Research through NSF/OCI
 - See: <http://ci-ber.blogspot.com/>

The CI-BER Project

Purpose: To build and test prototypes for next generation information systems scaling to billions of archival records. These tools should be both applicable within NARA and across agencies.

The CI-BER testbed foundation consists of:

- ⁵⁶~~41~~ **TB test collection** includes ⁷²~~70~~ million files spread over 133 Record Groups from the US National Archives.
- A centralized **iRODS** data store optimized for retrieval performance which contains all the test collection.
- RENCI's **Geoanalytics** framework for processing, visualizing, and sharing geographic Big Data.

rods://marciano@ciber.renci.org:1249/ciberZone/home/ciberAdmin/maconrad

YouTube - Vi...Beck's abs! YouTube - R...oken Glass YouTube - A...ese Banana DAAC Data Pool Apple Yahoo! Google Maps >>

marciano@ciber.renci.org:1249 | [Sign Out](#)

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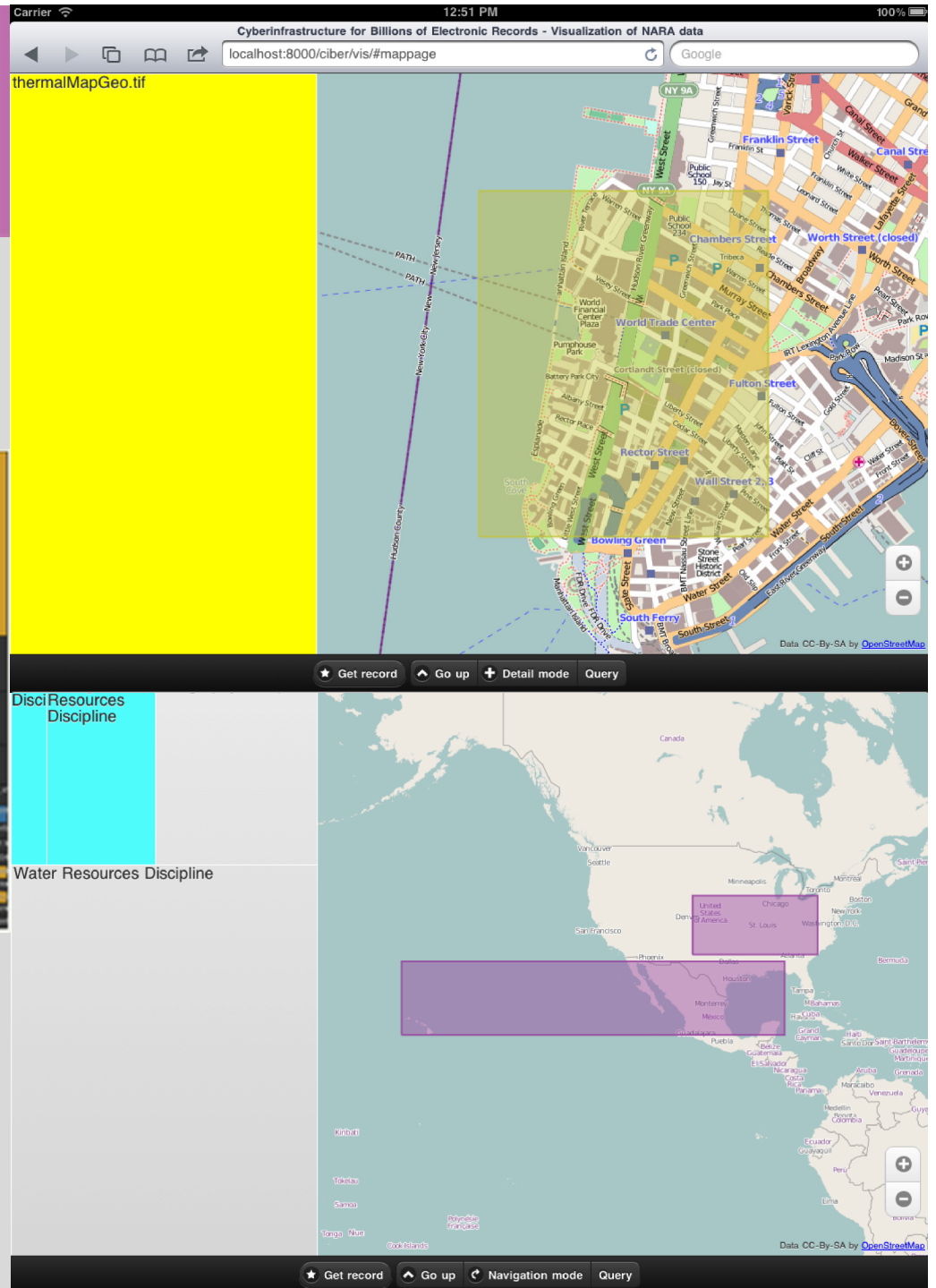
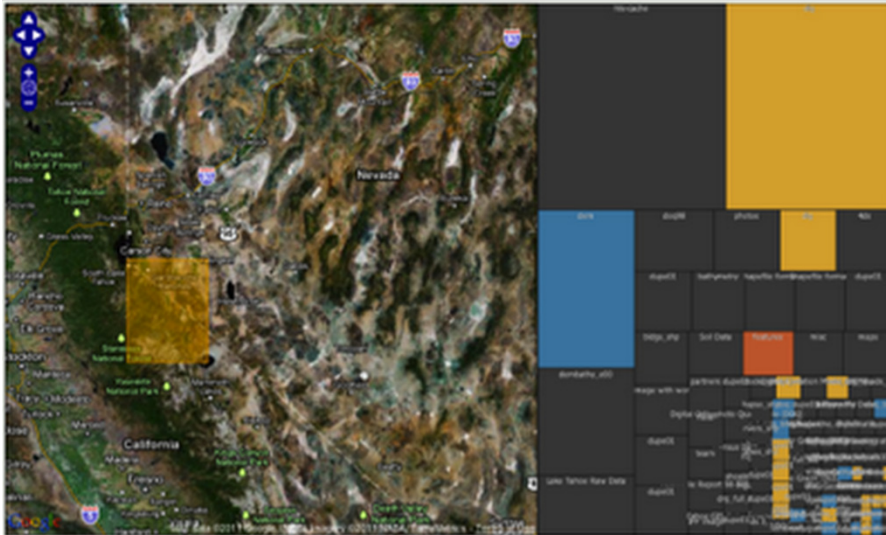
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 ☐ Browse Up

 More ...

Name	Resource	Size	Date Modified
RG 013 - Records of the National Mediation Board			December 10, 2010, 3:42
RG 015 - Records of the Department of Veterans Affairs			December 10, 2010, 3:46
RG 016 - Records of the Office of the Secretary of Agriculture			December 10, 2010, 3:48
RG 021 - Records of District Courts of the United States			December 10, 2010, 3:51
RG 022 - Records of the U.S. Fish and Wildlife Service			December 10, 2010, 4:17
RG 024 - Records of the Bureau of Naval Personnel			December 10, 2010, 4:23
RG 025 - Records of the National Labor Relations Board			December 10, 2010, 4:32
RG 026 - Records of the U.S. Coast Guard			December 10, 2010, 4:39
RG 029 - Records of the Bureau of Census			December 13, 2010, 7:11
RG 034 - Records of the Federal Deposit Insurance Corporation			December 15, 2010, 3:59
RG 038 - Records of the Office of the Chief of Naval Operations			December 14, 2010, 4:56
RG 046 - Records of the U.S. Senate			December 14, 2010, 6:08
RG 047 - Records of the Social Security Administration			December 14, 2010, 6:11
RG 049 - Records of the Bureau of Land Management			December 14, 2010, 6:11
RG 051 - Records of the Office of Management and Budget			December 14, 2010, 6:12
RG 053 - Records of the Bureau of the Public Debt			December 14, 2010, 6:13
RG 056 - General Records of the Department of the Treasury			December 14, 2010, 6:16
RG 057 - Records of the U.S. Geological Survey			November 29, 2010, 5:05
RG 058 - Records of the Internal Revenue Service			December 14, 2010, 6:18
RG 059 - General Records of the Department of State			December 15, 2010, 8:17
RG 060 - General Records of the Department of Justice			December 14, 2010, 6:26
RG 064 - Records of the National Archives and Records Administration			December 15, 2010, 2:48

Prototypes

Our prototypes focus on the collection search and browsing tasks.



2. 1940 Census Data

State Illinois Incorporated place _____
County Champaign Ward of city _____ Block No. _____
Transcribed or other Champaign, Ill.

DEPARTMENT OF COMMERCE-BUREAU OF THE CENSUS
FIFTEENTH CENSUS OF THE UNITED STATES: 1930
POPULATION SCHEDULE

Enumeration District No. 10-44 Sheet No. 5-A
Superintendent's District No. 11
Enumerated by me on April 22, 1930 at W.H.H. Woods

PLACE OF ABODE				NAME of each person whose place of abode on April 1, 1930, was in this family Enter surname first, then the given name and middle initial, if any Include every person living on April 1, 1930. Omit children born since April 1, 1930	RELATION Relationship of this person to the head of the family	HOME DATA			
Street, avenue, road, etc.	House number (in cities or towns)	Number of dwelling house in order of visitation	Number of family in order of visitation			Home owned or rented	Value of home, if owned, or monthly rental, if rented	Radio set	Does this family live on a farm?
1	2	3	4	5	6	7	8	9	10
				Birmingham, Francis	Son				Yes
				Birmingham, Francis	Son				Yes
				Taylor, Mary E.	Mother				Yes

<http://digitalinnovation.unc.edu/2012/03/16/the-1940-census-as-digital-data/>

3. Historical City Directories

Charlotte, North Carolina city directory [serial] : Piedmont Directory Co : Free Download & Streaming : Internet Archive

http://www.archive.org/details/charlottenorthca1911ped

https://aut...ytimes.com/ DAAC Data Pool Apple Yahoo! YouTube Google Maps News (538) Popular

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[Full Text](#) (1.4 M)
[DIVu](#) (24.2 M)

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Resources

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Charlotte, North Carolina city directory [serial] (1911)

Author: [Piedmont Directory Co; Miller, Ernest H](#)
Volume: 1911
Subject: [Charlotte \(N.C.\) -- Directories](#)
Publisher: [Asheville, N.C. : Piedmont Directory Co.](#)
Possible copyright status: NOT_IN_COPYRIGHT
Language: [English](#)
Call number: b3246815
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[illegible]


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  <LINE>^* Abernathy Turner, emp F S Royster Guano Co, h Smith nr Lake-</LINE>
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  <LINE>^3 Abernethy Enola Miss, student, h 1310 e 4th ^^</LINE>
  <LINE>, Abemethy Gertrude Miss, smstrs Little-Long, h 511 n Church ^^</LINE>
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  <LINE>O^ Abemethy Myrtle Miss, student, h 1310 e 4th ^^</LINE>
  <LINE>Abernethy Pearl I Miss, cashr Little-Long, h 409 w 11th '^</LINE>
  <LINE>^^ Abemethy W S, h Salisbury rd</LINE>
  <LINE>F% -^3 Abernethy Wm L (Florence), elk C C Coddington, h 803 n Pine</LINE>
  <LINE>C^ Abemethy Wm S (Mamie E), mech Ford Motor Co, h 409 w 11th</LINE>
  <LINE>^^ ^^ * Abraham Lawrence (Maggie), firemn, h Oliver st ^^</LINE>
  <LINE>^Z ^3 Absher Saml E, agt Amer Natl Ins Co, h 2151/^ s Church W^</LINE>
  <LINE>C^ *g Academy of Music, 210-12 s Tryon, Jno L Crovo mngr jL</LINE>
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City Directory Historical Attributes

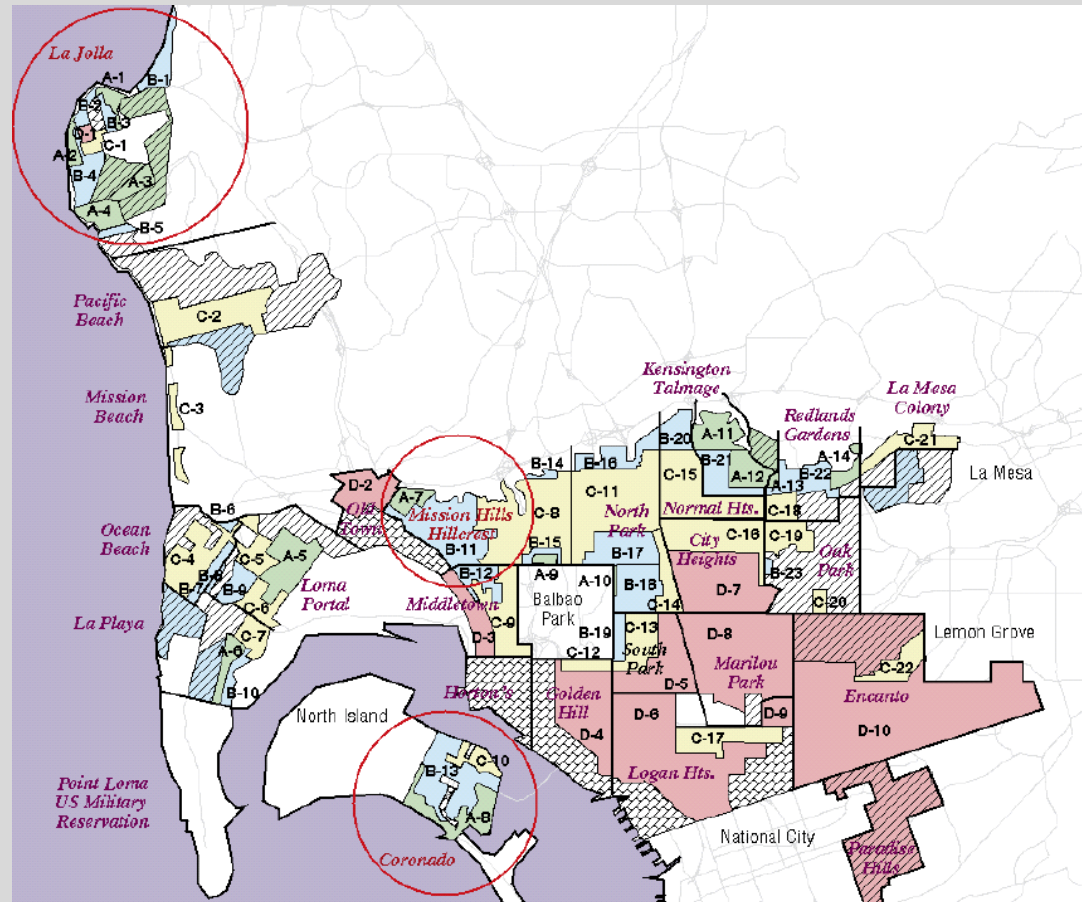
From COVER page				From INDEX page		From SUPP. page	From ABBREVS page					From DIRECTORY pages 1 & 2				
City	Publisher	Year	Price	Directory Pos.	Street Dir.		Abbreviations					Race	Married	Num. of Columns	Header Sep.	Other
							Jobs	Given Names	Special	(Street) & Suburb	Firm					
Charlotte	Piedmont Directory Co.	1911	\$6	1	Yes		X					*		1	DIRECTORY	
Charlotte	Piedmont Directory Co.	1916	\$7		Yes		X					*		1	DIRECTORY	
												Dir. of white people Dir. of colored people				
Concord	The Interstate Directory Co.	1902	\$3	1			X					*		1	DIRECTORY	Name cont. w. ----
Concord	Piedmont Directory Co.	1908	\$4	1	Yes		X					*		1	DIRECTORY	
Concord	Piedmont Directory Co.	1913-1914	\$4	1	Yes		X					*		1	DIRECTORY	
Concord	Piedmont Directory Co.	1916-1917	\$5	1	Yes		X					*		1	DIRECTORY	
Concord	Piedmont Directory Co.	1920-1921	\$6	1	Yes		X					*		1	DIRECTORY	
Dunn	Chas. S. Gardiner	1918-1919		1	No		X					*		1	DIRECTORY	
Durham	N.A. Ramsey, Publisher	1892		1	No		X					Dir. of white people Dir. of colored people			DIRECTORY	
Greater Durham	Samuel L. Adams	1902	\$5	1	No		X					4 Dirs. of white people 4 Dirs. of colored people		1		Name cont. w. ----
Gastonia	Piedmont Directory Co.	1910-11	\$4	1	Yes		X					*		1	DIRECTORY	
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Gastonia	Piedmont Directory Co.	1918-1919	\$5	1	Yes		X					*		1	DIRECTORY	
Gastonia	Piedmont Directory Co.	1921-1922	\$6	1	Yes		X					*		1	DIRECTORY	
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Gastonia	Hill Directory Co., Inc.	1947	\$16.50	1	Yes		X	X	X					1	Ad. Box	Name cont. w ----
Greensboro	Hill Directory Co., Inc.	1925	\$10	1	Yes		X					⊙		2	even pages: HILL DIRECTORY COMPANY'S odd pages: GREENSBORO CITY DIRECTORY	
Greensboro	Hill Directory Co., Inc.	1926	\$11	1	Yes		X					*		2	even pages: HILL DIRECTORY COMPANY'S odd pages: GREENSBORO CITY DIRECTORY	
Greensboro	Hill Directory Co., Inc.	1927	\$14	1	Yes		X	X				⊙		2	even pages: HILL DIRECTORY COMPANY'S odd pages: GREENSBORO CITY DIRECTORY	
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Greensboro	Hill Directory Co., Inc.	1931	\$15	1	Yes		X	X	X			⊙		2	Ad. Box	
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Greensboro	Hill Directory Co., Inc.	1936	\$15	1	Yes		X	X	X			⊙		2	Ad. Box	
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Greensboro	Hill Directory Co., Inc.	1942	\$15	1	Yes		X	X	X	X	X	⊙		2	Ad. Box	Name cont. w. "
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4. Historical Residential Segregation Data

“Between 1932 and 1964, FHA and VA (through the GI Bill) financed over \$120 billion of new housing, and less than 2% of this real estate was available to nonwhite families, mostly in segregated areas.”

“The Home Owners’ Loan Corp. (HOLC) created in June 1933, introduced the long-term mortgage in practice today. HOLC systematized appraisal methods across the nation and initiated the practice of redlining.”

ALL QUOTES HERE FROM: “The Possessive Investment in Whiteness – How White People Profit from Identity Politics”, George Lipsitz, Temple University Press, June 1998.



Through their appraisal and redlining practices, HOLC and FHA institutionalized exclusion and contributed to the fragmentation of communities

Big Heterogeneous Data (with Duke)



Mapping historical residential segregation in the US

Researching the cyberinfrastructure implications of supporting large scale content based indexing of highly heterogeneous digital collections potentially embodying non-uniform or sparse metadata architectures...

Intellectual Merit:

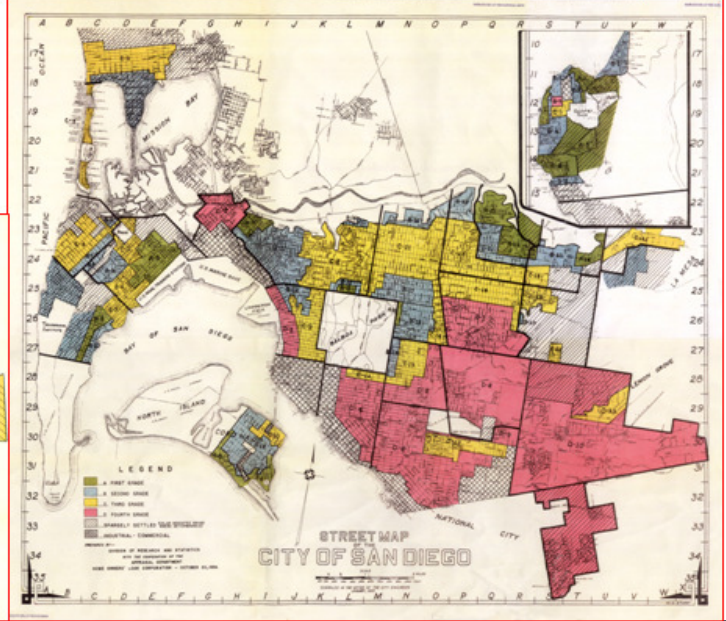
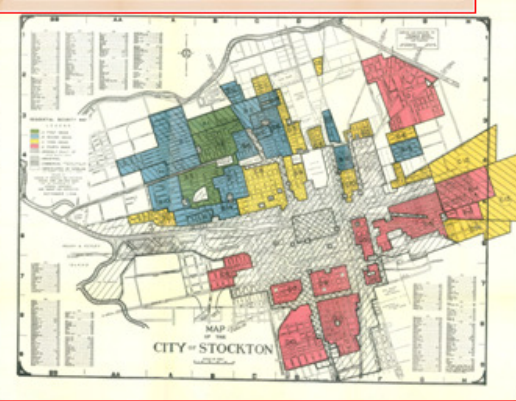
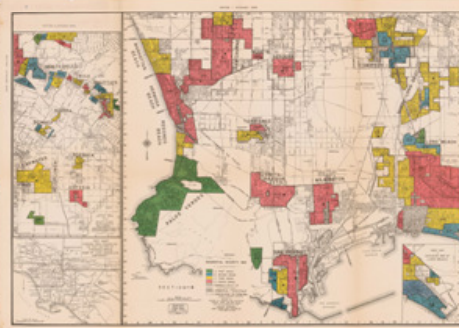
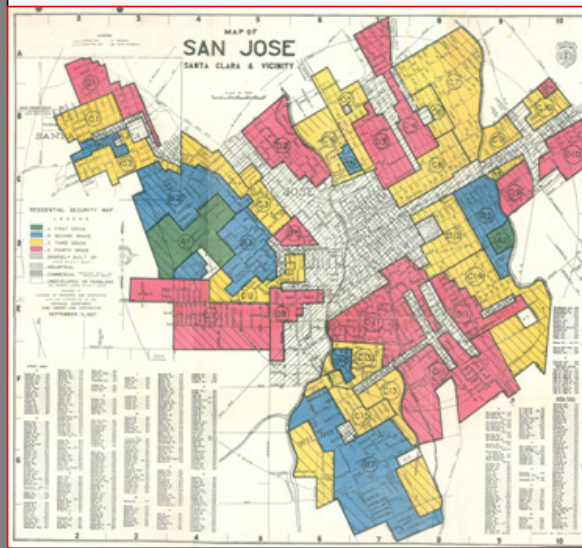
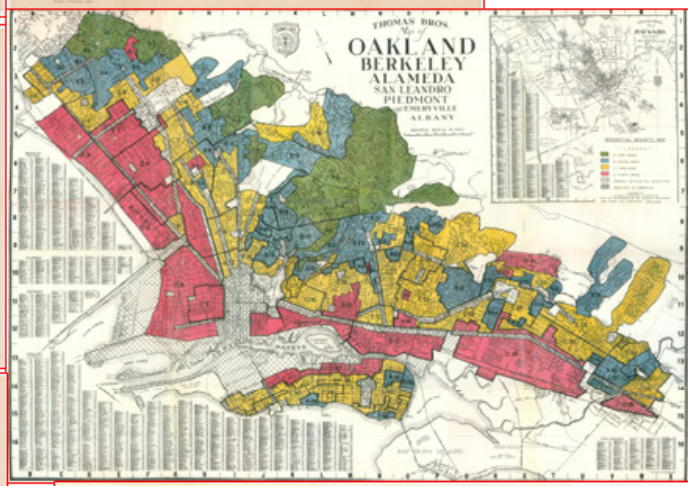
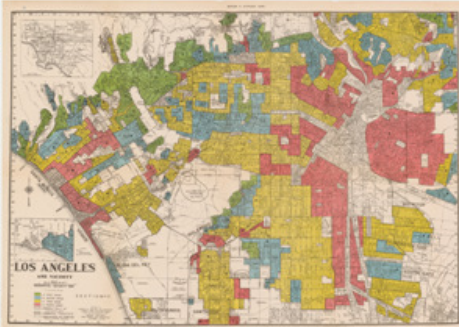
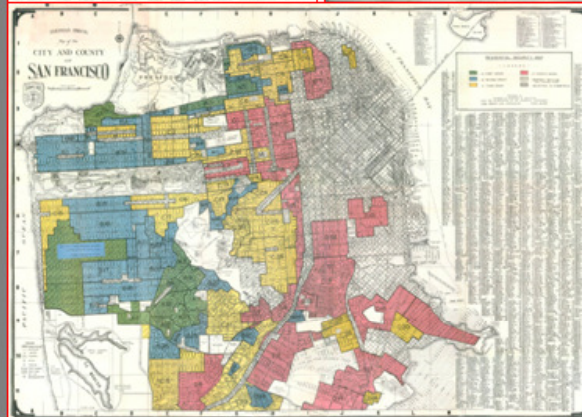
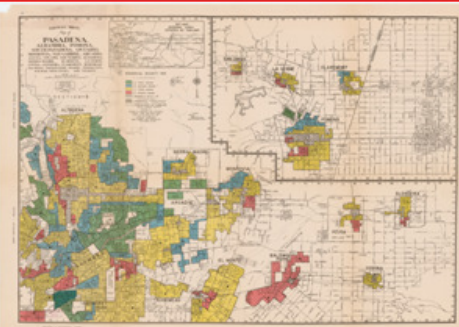
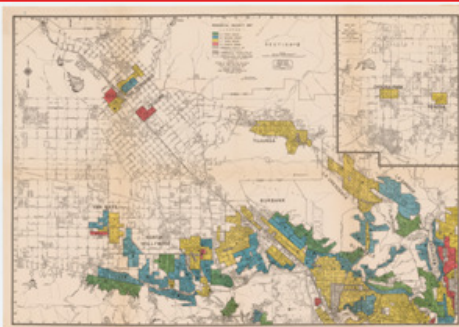
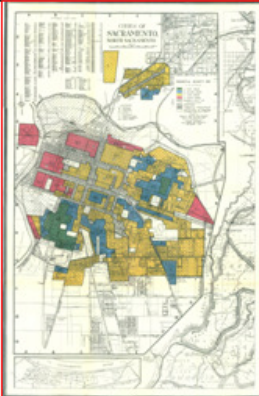
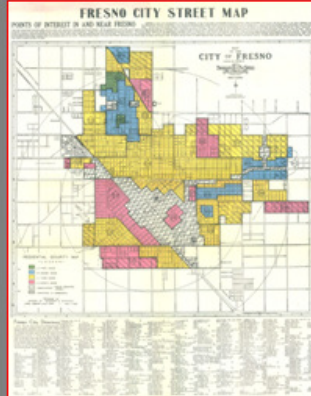
Demonstrating the creation of national collections through automation and citizen-scientist crowdsourcing efforts is the focus of this task.

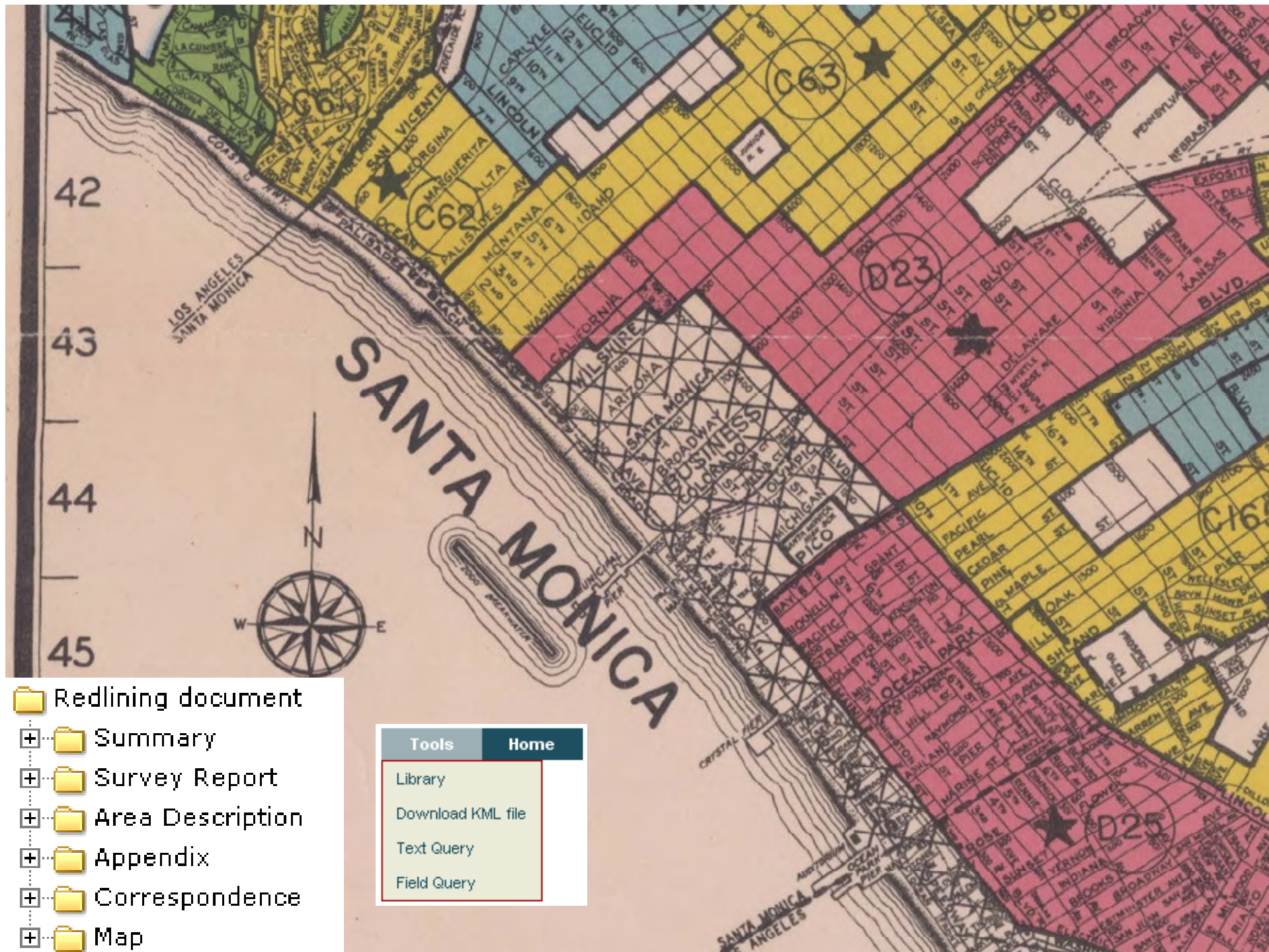
Broader Impacts:

This case-study will bring heterogeneous content from a variety of sources: census, economic, historic, planning, insurance, financial, and scientific.

Outcomes:

Workflows & Visual prototype





AREA DESCRIPTION

1. NAME OF CITY Asheville, N. C. SECURITY GRADE D AREA NO. 1
2. DESCRIPTION OF TERRAIN. Rolling to mountainous on Western side and Eastern side.
3. FAVORABLE INFLUENCES. Schools - churches in area - all city conveniences - Adequate transportation.
4. DETRIMENTAL INFLUENCES. Industrial plants along railroad tracks on western side of area. Cheap construction, also filling stations and some cheap stores on Biltmore Road. Also many business places in the part nearest main business district.
5. INHABITANTS: Mechanics - factory workers-
- a. Type Common laborers ; b. Estimated annual family income \$300 - 1500
- c. Foreign-born None ; %; d. Negro Yes ; 75 %;
(Nationality) (Yes or No)
- e. Infiltration of Negro gradually ; f. Relief families Many ;
- g. Population is increasing ; decreasing ; static. yes

AREA DESCRIPTION

Security Map of LOS ANGELES COUNTY

1. POPULATION: a. Increasing Slowly Decreasing Static
 - b. Class and Occupation Jewish professional & business men, Mexican laborers, WPA workers, etc. Income \$700 to \$2000 and up
 - c. Foreign Families 50 % Nationalities Russian, Polish & Armenian Jews, d. Negro 1 %
Slavs, Greeks, American Mexicans, Japanese and Italians
 - e. Shifting or Infiltration Subversive racial elements increasing.
2. BUILDINGS:

	PREDOMINATING	40 %	OTHER TYPE	%
a. Type and Size	<u>4, 5 & 6 rooms</u>		<u>2, 3 and 4 room shacks</u>	<u>30 %</u>
b. Construction	<u>Frame and stucco</u>		<u>Apts. & other multi-family</u>	<u>20 %</u>
c. Average Age	<u>20 years</u>		<u>Old 7 rooms and up</u>	<u>10 %</u>
d. Repair	<u>Poor to fair</u>			
e. Occupancy	<u>97 %</u>			
f. Owner-occupied	<u>20 %</u>			
g. 1935 Price Bracket	<u>\$2000-3250</u>	<u>% change</u>	<u>\$</u>	<u>% change</u>
h. 1937 Price Bracket	<u>\$2250-3500</u>	<u>%</u>	<u>\$</u>	<u>%</u>
i. 1939 Price Bracket	<u>\$2250-3500</u>	<u>%</u>	<u>\$</u>	<u>%</u>
j. Sales Demand	<u>Poor</u>			
k. Predicted Price Trend (next 6-12 months)	<u>Static</u>			
l. 1935 Rent Bracket	<u>\$22.50-35.00</u>	<u>% change</u>	<u>\$</u>	<u>% change</u>
m. 1937 Rent Bracket	<u>\$25.00-40.00</u>	<u>%</u>	<u>\$</u>	<u>%</u>
n. 1939 Rent Bracket	<u>\$25.00-40.00</u>	<u>%</u>	<u>\$</u>	<u>%</u>
o. Rental Demand	<u>Fair</u>			
p. Predicted Rent Trend (next 6-12 months)	<u>Static</u>		<u>\$4000-\$5500</u>	
3. NEW CONSTRUCTION (past yr.) No. 25 Type & Price 5 and 6 rooms How Selling Owner built
4. OVERHANG OF HOME PROPERTIES: a. HOLC. 3 b. Institutions Many
5. SALE OF HOME PROPERTIES (3 yr.) a. HOLC. 33 b. Institutions Few
6. MORTGAGE FUNDS: Limited 7. TOTAL TAX RATE PER \$1000 (1937-8) 52.80
8. DESCRIPTION AND CHARACTERISTICS OF AREA:
Terrain: Level to hillside with generally favorable grades and comparatively few construction hazards. Land improved 90%. This is a "melting pot" area and is literally honeycombed with diverse and subversive racial elements. It is seriously doubted whether there is a single block in the area which does not contain detrimental racial elements, and there are very few districts which are not hopelessly heterogeneous in type of improvement and quality of maintenance. Schools, churches, trading centers, recreational areas and transportation are all conveniently available. Many of the thoroughfares are arterial in character and constitute traffic hazards. This area is wholly in the City of Los Angeles. It is hazardous residential territory and is accorded a general medial red grade, although in many parts slum conditions prevail. The Federal Government, in conjunction with the city government are undertaking a slum clearance project covering 41 areas in the extreme northeast part of the area.

9. LOCATION. Boyle Heights SECURITY GRADE 4th AREA NO. D-53 DATE 4-19-39

CAUTION: This area is currently affected in whole or in part by an Ad valorem Tax District. Individual properties should be checked for this hazard.

Neighborhood description for:
Boyle Heights
* Area D-53
* "Red" area

"Boyle Heights remained one of the most heterogeneous neighborhoods in the city for decades and it was a center of Jewish, Mexican and Japanese immigrant life in the early 20th century, and also hosted large Yugoslav and Russian populations."

Wikipedia, 6/17/2011

AREA DESCRIPTION

Security Map of LOS ANGELES COUNTY

1. POPULATION: a. Increasing Slowly Decreasing Static
- b. Class and Occupation Jewish professional & business men, Mexican laborers, WPA workers, etc. Income \$700 to \$2000 and up
- c. Foreign Families 50 % Nationalities Russian, Polish & Armenian Jews, Slavs, Greeks, American Mexicans, Japanese and Italians
- d. Negro 1 %
- e. Shifting or Infiltration Subversive racial elements increasing.

...

8. DESCRIPTION AND CHARACTERISTICS OF AREA:

Terrain: Level to hillside with generally favorable grades and comparatively few construction hazards. Land improved 90%. This is a "melting pot" area and is literally honeycombed with diverse and subversive racial elements. It is seriously doubted whether there is a single block in the area which does not contain detrimental racial elements, and there are very few districts which are not hopelessly heterogeneous in type of improvement and quality of maintenance. Schools, churches, trading centers, recreational areas and transportation are all conveniently available. Many of the thoroughfares are arterial in character and constitute traffic hazards. This area is wholly in the City of Los Angeles. It is hazardous residential territory and is accorded a general medial red grade, although in many parts slum conditions prevail. The Federal Government, in conjunction with the city government are undertaking a slum clearance project covering 41 areas in the extreme northeast part of the area.

...

9. LOCATION Boyle Heights SECURITY GRADE 4th AREA NO. D-53 DATE 4-19-39

OCR Technical Details

Fixed Text

AREA DESCRIPTION			
Security Map of <u>LOS ANGELES COUNTY</u>			
1. POPULATION:	a. Increasing	Slowly	Decreasing
b. Class and Occupation	Jewish professional & business men, Mexican laborers, WPA workers, etc. Income \$700 to \$2000 and up		
c. Foreign Families	50 %	Nationalities Russian, Polish & Armenian Jews, etc.	d. Negro 1 %
e. Shifting or Infiltration	Subversive racial elements increasing.		
2. BUILDINGS:	PREDOMINATING	40 %	OTHER TYPE %
a. Type and Size	4, 5 & 6 rooms		2, 3 and 4 room shacks 30 %
b. Construction	Frame and stucco		Apts. & other multi-family 20 %
c. Average Age	20 years		Old 7 rooms and up 10 %
d. Repair	Poor to fair		
e. Occupancy	97 %		
f. Owner-occupied	20 %		
g. 1935 Price Bracket	\$2000-3250	% change \$	% change
h. 1937 Price Bracket	\$2250-3500	% \$	%
i. 1939 Price Bracket	\$2250-3500	% \$	%
j. Sales Demand	Poor		
k. Predicted Price Trend (next 6-12 months)	Static		
l. 1935 Rent Bracket	\$22.50-35.00	% change \$	% change
m. 1937 Rent Bracket	\$25.00-40.00	% \$	%
n. 1939 Rent Bracket	\$25.00-40.00	% \$	%
o. Rental Demand	Fair		
p. Predicted Rent Trend (next 6-12 months)	Static		
3. NEW CONSTRUCTION (past yr.) No. 25	Type & Price	\$4000-\$5500	Owner built
4. OVERHANG OF HOME PROPERTIES:	a. HOLC	3	b. Institutions Many
5. SALE OF HOME PROPERTIES (3 yr.)	a. HOLC	33	b. Institutions Few
6. MORTGAGE FUNDS	Limited	7. TOTAL TAX RATE PER \$100	1937-8 (1939) \$ 52.80

8. DESCRIPTION AND CHARACTERISTICS OF AREA

Terrain: Level to hillside with generally favorable grades and comparatively few construction hazards. Land improved 90%. This is a "melting pot" area and is literally honeycombed with diverse and subversive racial elements. It is seriously doubted whether there is a single block in the area which does not contain detrimental racial elements, and there are very few districts which are not hopelessly heterogeneous in type of improvement and quality of maintenance. Schools, churches, trading centers, recreational areas and transportation are all conveniently available. Many of the thoroughfares are arterial in character and constitute traffic hazards. This area is wholly in the City of Los Angeles. It is hazardous residential territory and is accorded a general medial red grade, although in many parts slum conditions prevail. The Federal Government, in conjunction with the city government are undertaking a slum clearance project covering 41 areas in the extreme northeast part of the area.

9. LOCATION Boyle Heights SECURITY GRADE 4th AREA NO. D-53 DATE 4-19-39

CAUTION: This area is currently affected in whole or in part by an Ad valorem Tax District. Individual properties should be checked for this hazard.

Fixed Text

Loaded as header fields into DB

AREA DESCRIPTION

Security Map of LOS ANGELES COUNTY

1. POPULATION: a. Increasing Slowly Decreasing Static

b. Class and Occupation Jewish professional & business men, Mexican laborers, WPA workers, etc. Income \$700 to \$2000 and up

c. Foreign Families 50 % Nationalities Russian, Polish & Armenian Jews, Greeks, German, American Mexicans, Japanese and Italians d. Negro 1 %

e. Shifting or Infiltration Subversive racial elements increasing.

2. BUILDINGS: **PREDOMINANT TYPE** 49 % **OTHER TYPE** 5 %

a. Type and Size 4, 5 & 6 rooms 2, 3 and 4 room shacks 30 %

b. Construction Frame and stucco Apartments other multi-family 20 %

c. Average Age 20 years Old 7 rooms and up 10 %

d. Repair Poor to fair

e. Occupancy 97 %

f. Owner-occupied

g. 1935 Price Bracket

h. 1937 Price Bracket

i. 1939 Price Bracket

j. Sales Demand Poor

k. Predicted Price Trend (next 6-12 months) Static

l. 1935 Rent Bracket \$22.50-35.00 % change \$ % change

m. 1937 Rent Bracket \$25.00-40.00 % change \$ % change

n. 1939 Rent Bracket \$25.00-40.00 % change \$ % change

o. Rental Demand Fair

p. Predicted Rent Trend (next 6-12 months) Static

3. NEW CONSTRUCTION (past yr.) No. 25 Type & Price \$4000-\$5500 Flow Selling Owner built

4. OVERHANG OF HOME PROPERTIES: a. HOLC 3 b. Institutions Many

5. SALE OF HOME PROPERTIES (3 yr.) a. HOLC 33 b. Institutions Few

6. MORTGAGE FUNDS Limited 7. TOTAL TAX RATE PER \$100 1937-8 (1937-8) \$ 52.80

8. DESCRIPTION AND CHARACTERISTICS OF AREA

Terrain: Level to hillside with generally favorable grades and comparatively few construction hazards. Land improved 90%. This is a "melting pot" area and is literally honeycombed with diverse and subversive racial elements. It is seriously doubted whether there is a single block in the area which does not contain detrimental racial elements, and there are very few districts which are not hopelessly heterogeneous in type of improvement and quality of maintenance. Schools, churches, trading centers, recreational areas and transportation are all conveniently available. Many of the thoroughfares are arterial in character and constitute traffic hazards. This area is wholly in the City of Los Angeles. It is hazardous residential territory and is accorded a general medial red grade, although in many parts slum conditions prevail. The Federal Government, in conjunction with the city government are undertaking a slum clearance project covering 41 areas in the extreme northeast part of the area.

9. LOCATION Boyle Heights SECURITY GRADE 4th AREA NO. D-53 DATE 4-19-39

CAUTION: This area is currently affected in whole or in part by an Ad valorem Tax District. Individual properties should be checked for this hazard.

401

Variable Text

AREA DESCRIPTION									
Security Map of <u>LOS ANGELES COUNTY</u>									
1. POPULATION:		a. Increasing	<u>Slowly</u>	Decreasing	<u>Static</u>				
b. Class and Occupation		<u>Jewish professional & business men, Mexican laborers, WPA workers, etc. Income \$750 to \$2000 and up</u>							
c. Foreign Families		<u>100% Nationalities: Russian, Polish & Armenian Jews. d. Negro 1%</u>							
e. Shifting or Infiltration		<u>Slavs, Greeks, American Mexicans, Japanese and Chinese</u>							
2. BUILDINGS:		PREDOMINATING		<u>40%</u>	OTHER TYPE		<u>60%</u>		
a. Type and Size	<u>4, 5 & 6 rooms</u>				<u>2, 3 and 4 room shack</u>				
b. Construction	<u>Frame and stucco</u>				<u>Apartments and multi-family</u>				
c. Average Age	<u>20 years</u>				<u>Old 7 rooms and up</u>				
d. Repair	<u>Poor to fair</u>								
e. Occupancy	<u>97%</u>								
f. Owner-occupied	<u>20%</u>								
g. 1935 Price Bracket	<u>\$2000-2500</u>	% change		\$	<u>2500-3000</u>	% change		\$	
h. 1937 Price Bracket	<u>\$250-3500</u>	%		\$	<u>3500-4500</u>	%		\$	
i. 1939 Price Bracket	<u>\$250-3500</u>	%		\$	<u>3500-4500</u>	%		\$	
j. Sales Demand	<u>Poor</u>								
k. Predicted Price Trend (next 6-12 months)	<u>Static</u>								
l. 1935 Rent Bracket	<u>\$22.50-35.00</u>	% change		\$	<u>35.00-40.00</u>	% change		\$	
m. 1937 Rent Bracket	<u>\$25.00-40.00</u>	%		\$	<u>40.00-45.00</u>	%		\$	
n. 1939 Rent Bracket	<u>\$25.00-40.00</u>	%		\$	<u>40.00-45.00</u>	%		\$	
o. Rental Demand	<u>Fair</u>								
p. Predicted Rent Trend (next 6-12 months)	<u>Static</u>								
3. NEW CONSTRUCTION (past yr.) No.		<u>25</u>	Type & Price	<u>5 and 6 rooms</u>	How Selling	<u>Owner built</u>			
4. OVERHANG OF HOME PROPERTIES:		a. HOLC.	<u>3</u>	b. Institutions.	<u>Many</u>				
5. SALE OF HOME PROPERTIES (<u>3 yr.</u>)		a. HOLC.	<u>33</u>	b. Institutions.	<u>Few</u>				
6. MORTGAGE FUNDS:		<u>Limited</u>	7. TOTAL TAX RATE PER \$1000		<u>(1937)</u>	<u>52.00</u>			
8. DESCRIPTION AND CHARACTERISTICS OF AREA:									
General level of building with generally favorable grades and comparatively no construction hazards. Land improved 90%. This is a "melting pot" area and is literally honeycombed with diverse and subversive racial elements. It is seriously doubted whether there is a single block in the area which does not contain detrimental racial elements, and there are very few districts which are not hopelessly heterogeneous in type of improvement and quality of maintenance. Schools, churches, trading centers, recreational areas and transportation are all conveniently available. Many of the thoroughfares are arterial in character and constitute traffic hazards. This area is wholly in the City of Los Angeles. It is hazardous residential territory and is accorded a general medial red grade, although in many parts slum conditions prevail. The Federal Government, in conjunction with the city government are undertaking a slum clearance project covering 41 areas in the extreme northeast part of the area.									
9. LOCATION		<u>Boyle Heights</u>	SECURITY GRADE	<u>4th</u>	AREA NO.	<u>D-52</u>	DATE	<u>4-19-39</u>	

CAUTION: This area is currently affected in whole or in part by an Ad valorem Tax District. Individual properties should be checked for this hazard.

Variable Text

AREA DESCRIPTION

Security Map of LOS ANGELES COUNTY

1. POPULATION: a. Increasing Slowly Decreasing Static

b. Class and Occupation Jewish professional & business men, Mexican laborers, WPA workers, etc., income \$700 to \$2000 and up

c. Foreign Families 50% Nationalities Russian, Polish & Armenian Jews, ... d. Negro 1%

e. Shifting or Infiltration Subversive racial...

2. BUILDINGS:

a. Type and Size

b. Construction

c. Average Age

d. Repair

e. Occupancy

f. Owner-occupied

g. 1935 Price

h. 1937 Price

i. 1939

j. Sales Dem

k. Predicted 1 (next 6-12 months)

l. 1935 Rent Bracket

m. 1937 Rent Bracket

n. 1939 Rent Bracket

o. Rental Demand

p. Predicted Rent Trend (next 6-12 months)

3. NEW CONSTRUCTION (past yr.) No. 35 Type & Price \$4000-\$5500 How Selling Owner build

4. OVERHANG OF HOME PROPERTIES: a. HOLC. 3 b. Institutions. Many

5. SALE OF HOME PROPERTIES (3 yr.) a. HOLC. 35 b. Institutions. Few

6. MORTGAGE FUNDS: Limited 7. TOTAL TAX RATE PER \$1000 (1937) 52.00

8. DESCRIPTION AND CHARACTERISTICS OF AREA:

9. LOCATION Boyle Heights SECURITY GRADE 4th AREA NO. D-53 DATE 4-19-39

CAUTION: This area is currently affected in whole or in part by an Ad valorem Tax District. Individual properties should be checked for this hazard.

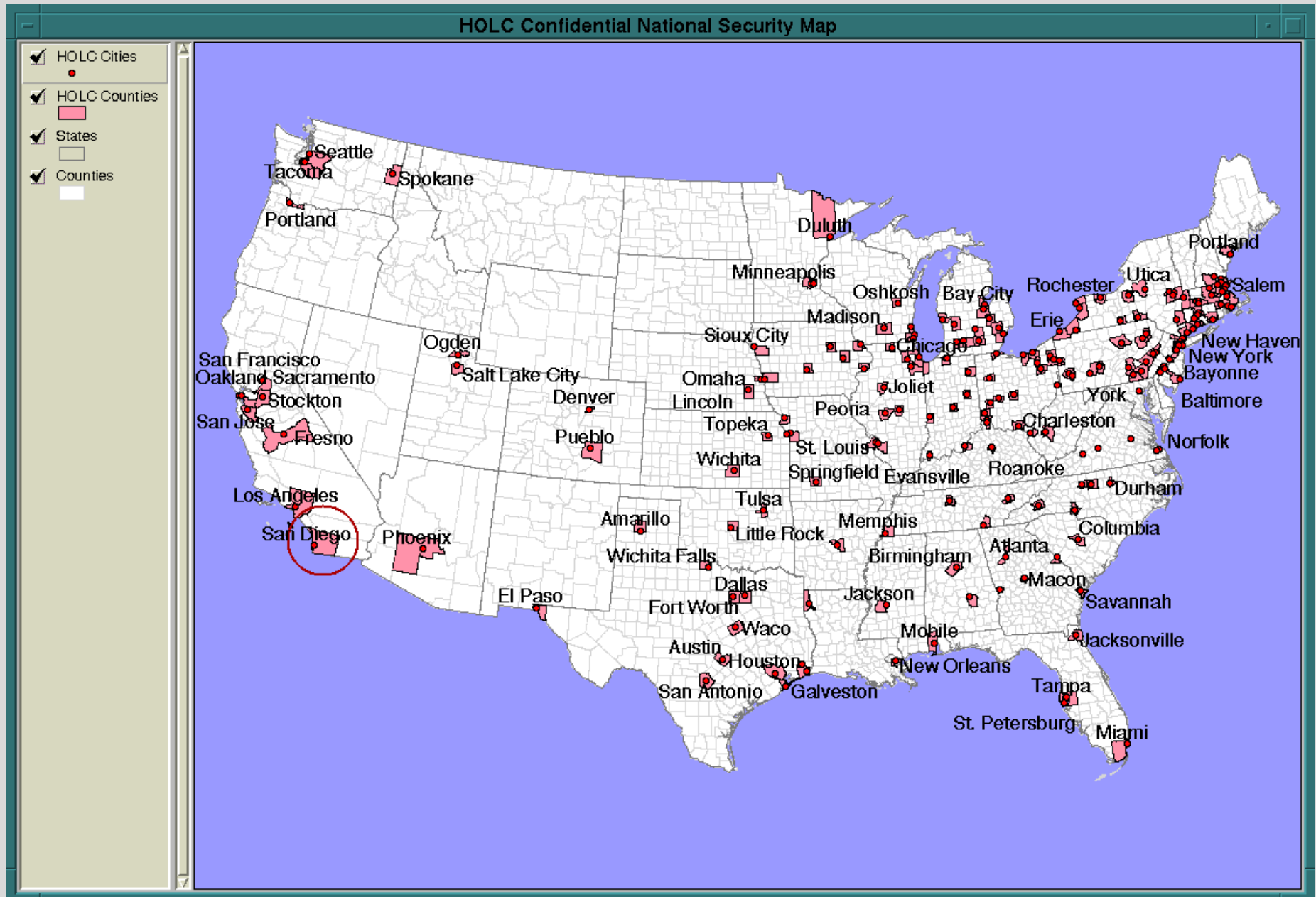
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Process repeated for all 420 neighborhood descriptions of L.A. County:

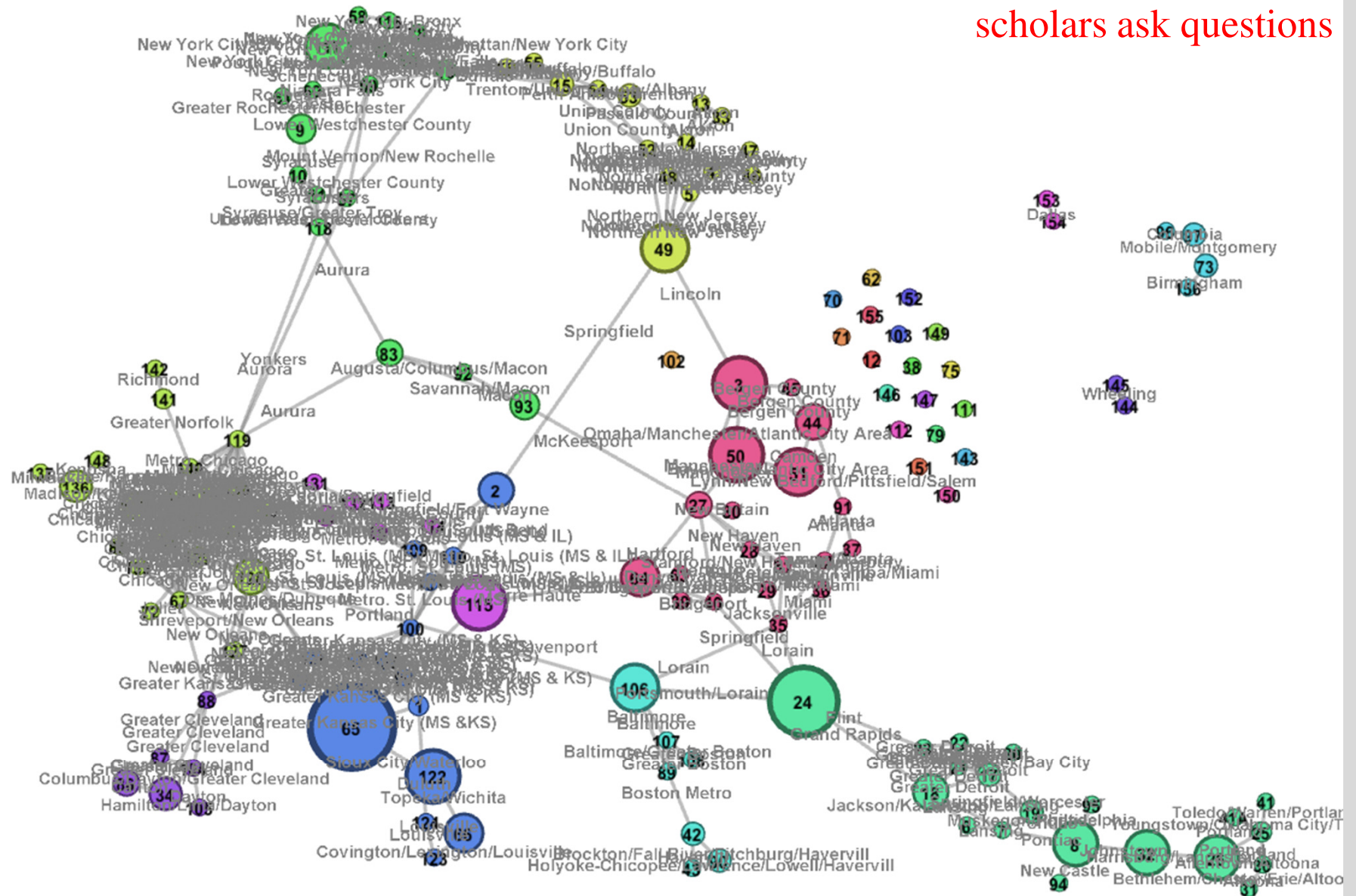
		Area No	9. Location	Security Map of	1. Population a. Increasing	Decreasing	Stati c	b. Class and Occupation	c. Foreign Families	Nationalities	d. Negro %	e. Shifting of Infiltration	...
A		A-1	Encino	Los Angeles County	Rapidly			Motion picture stars, ...	0%	--	0%	None apparent	
		...											
		A-60	South Palos Verdes	Los Angeles County	Rapidly			Professional ...	0%	-	0%	None apparent	
B		B-1	San Fernando	Los Angeles County	Rapidly			Local merchants ...	Few	None subversive	0%	None apparent	
		...											
		B-122	San Pedro	Los Angeles County	Moderately			Professional ...	0%	-	0%	None apparent	
C		C-1	Canoga Park	Los Angeles County	Slowly			Agricultural workers	Few	None subversive	0%	Mexicans ...	
		...											
		C-167	Mar Vista	Los Angeles County	Rapidly			Skilled artisans ...	0%	-	0%	None apparent	
D		D-1	San Fernando	Los Angeles County			Yes	Agricultural, Cannery ...	80%	Mexican predominating	0%	None apparent	
		...											
		D-53	Boyle Heights	Los Angeles County	Slowly			Jewish ...	50%	Russian, Polish & Armenian Jews, ...	1%	Subversive racial...	
		...											
		D-71	Wilmington	Los Angeles County			Yes	Small tradesmen, ...	25%	Japs and Mexicans	2%	Subversive racial ...	

Digital Scholarship Lab @ U. of Richmond (Rob Nelson) and Digital Innovation Lab @ UNC

Digital Scholarship Lab @ U. of Richmond (Rob Nelson) and Digital Innovation Lab @ UNC



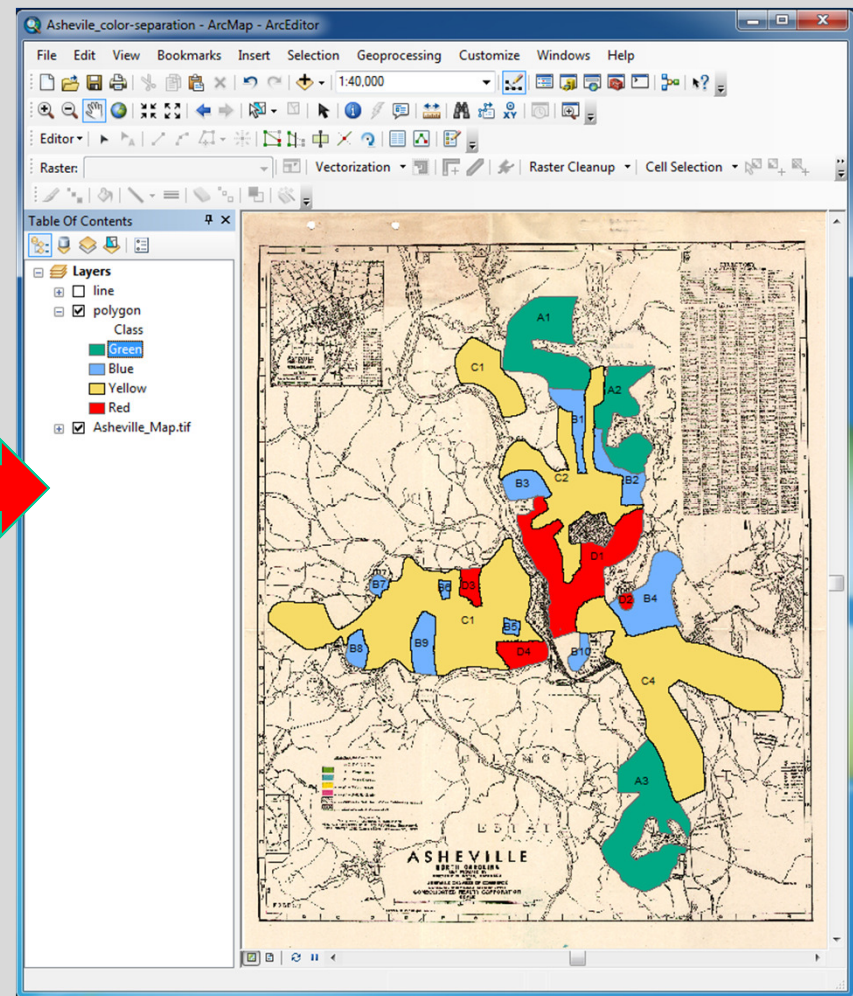
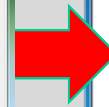
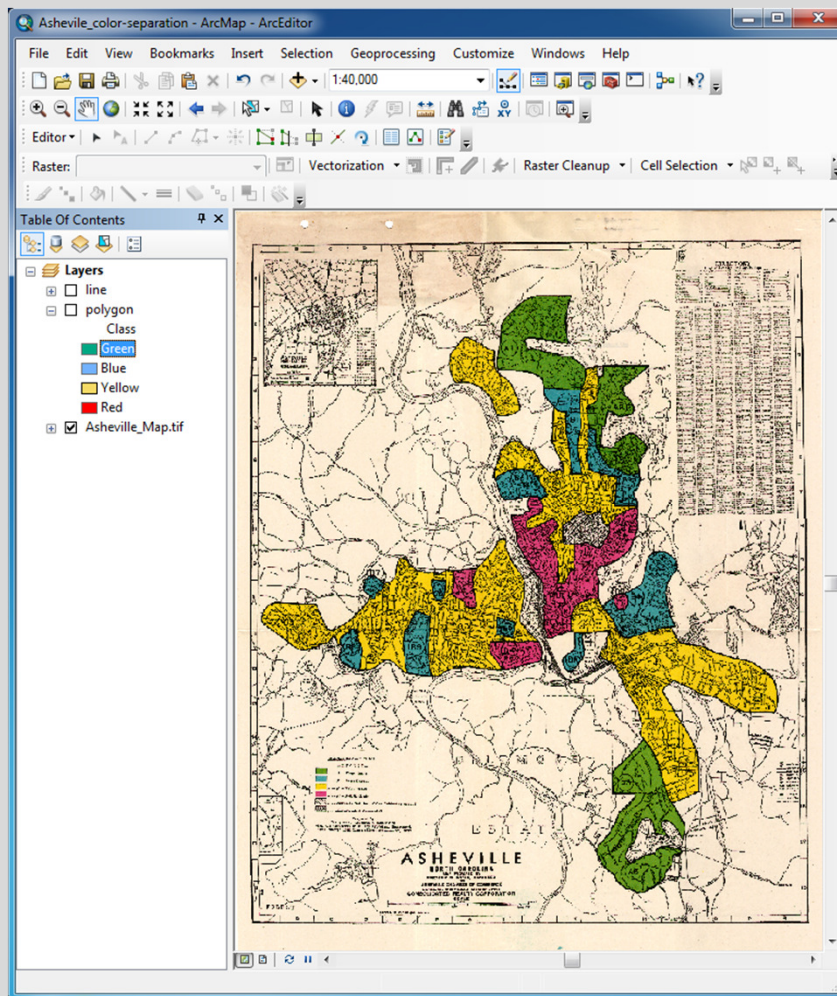
The way the material comes to be archived impacts the way scholars ask questions



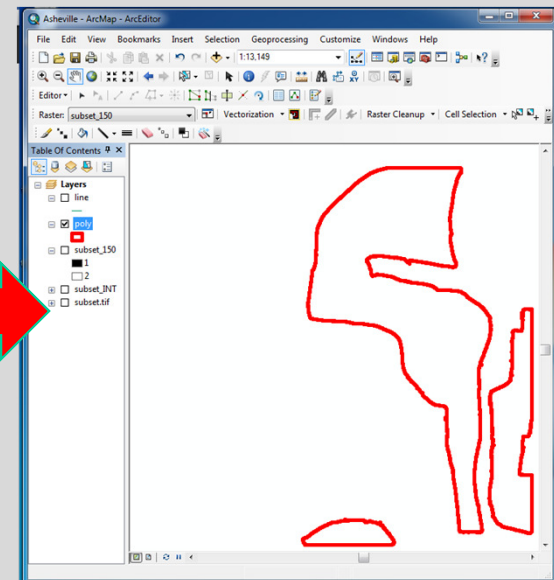
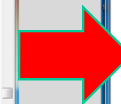
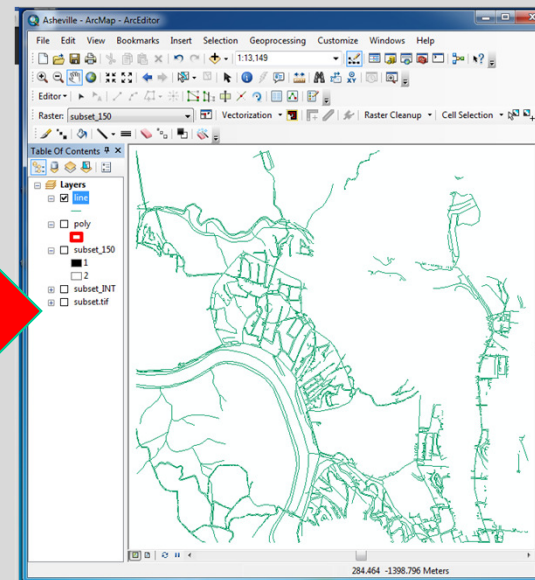
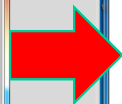
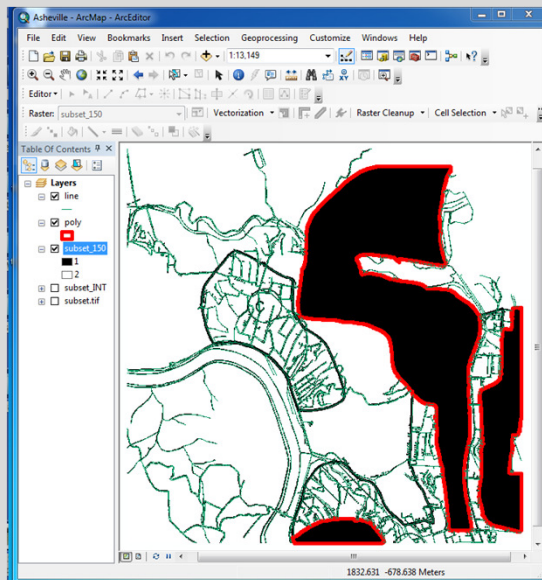
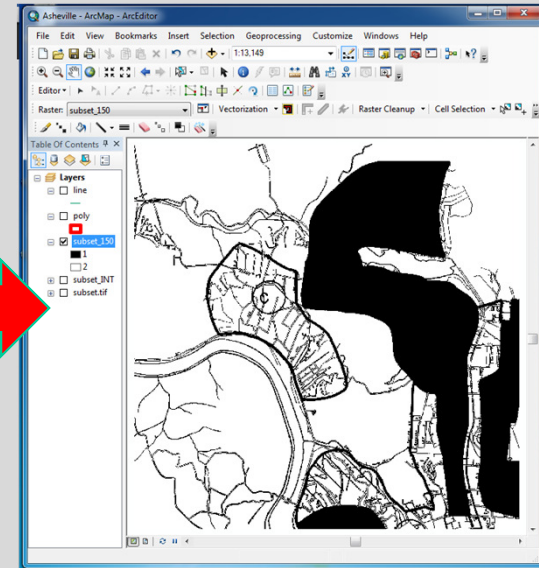
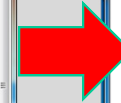
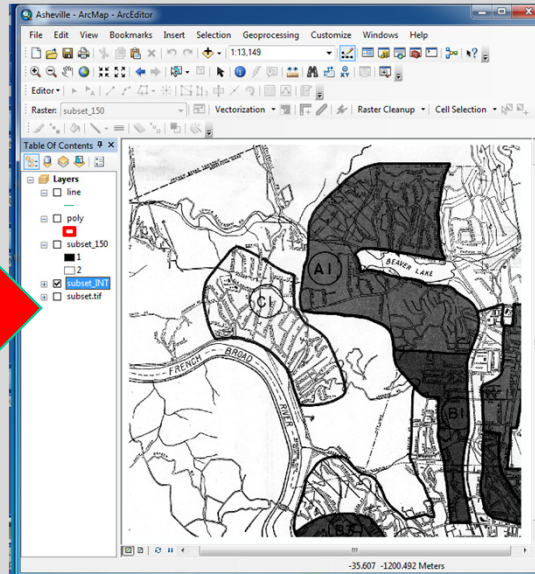
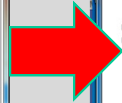
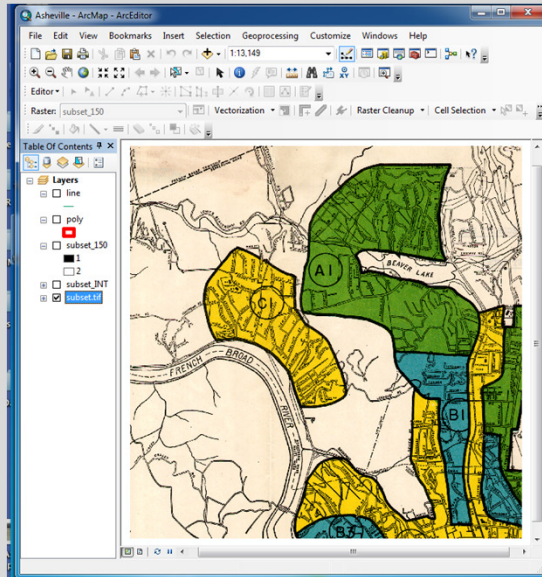
Boxes (129) & location of city files @ NARA II in College Park, MD

Using remote sensing methodologies: “OCR for images”

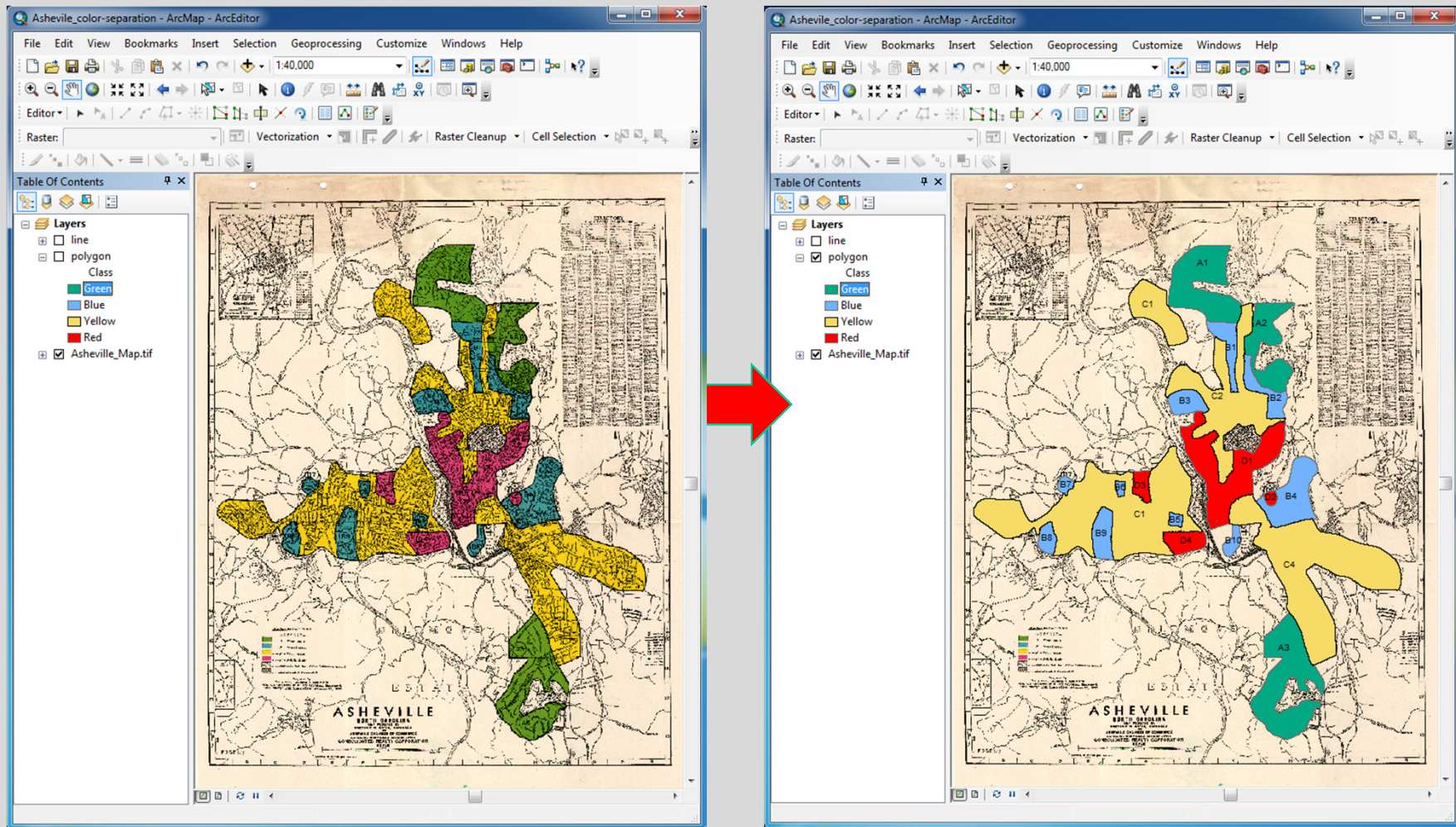
* Paper to Digital Maps:



* Map Processing at Scale:



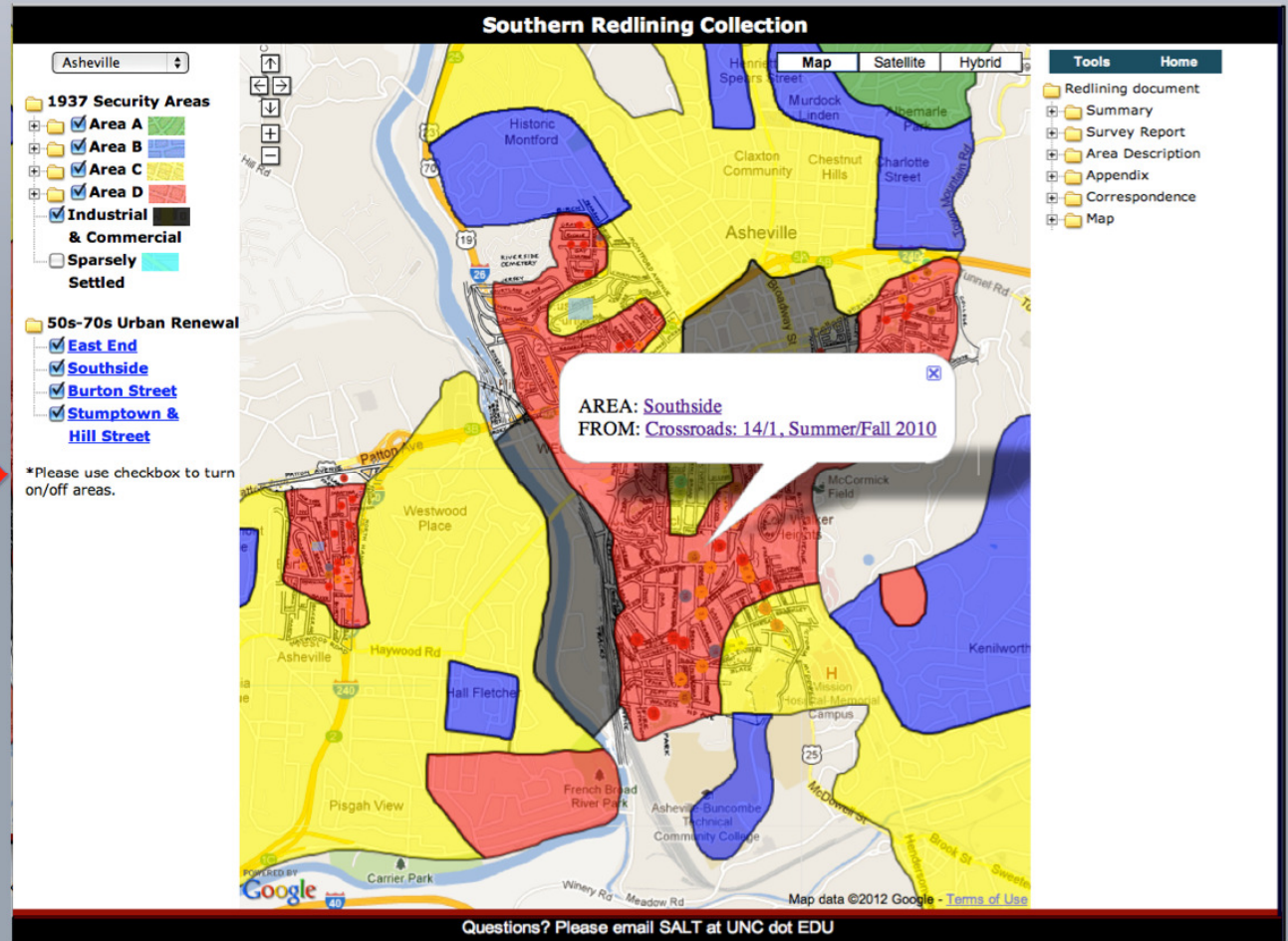
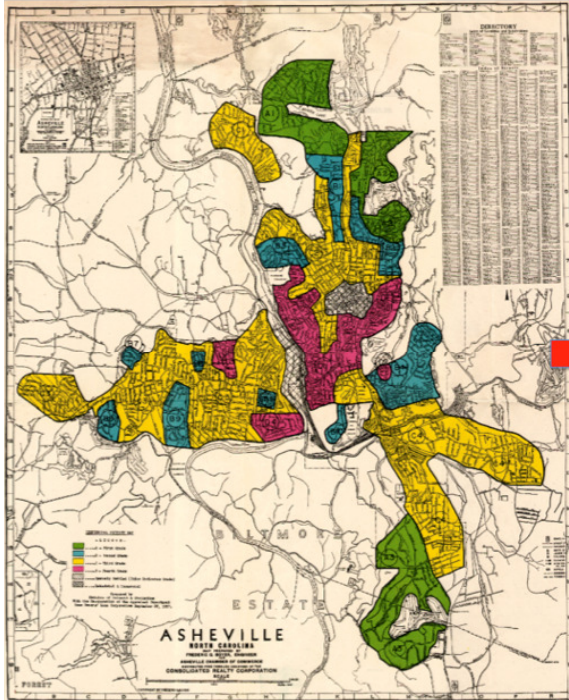
* Map Processing at Scale:



* Other Approaches:

- Multivariate Supervised Classification (remote sensing):
 - Image classification (ArcGIS 10 / ERDAS Imagine 2011)

Developing research interfaces that allow the asking of new questions:



Southern Redlining Collection

Asheville

1937 Security Areas

- ☒ Area A
- ☒ Area B
- ☒ Area C
- ☒ Area D
- ☐ Industrial & Commercial
- ☐ Sparsely Settled

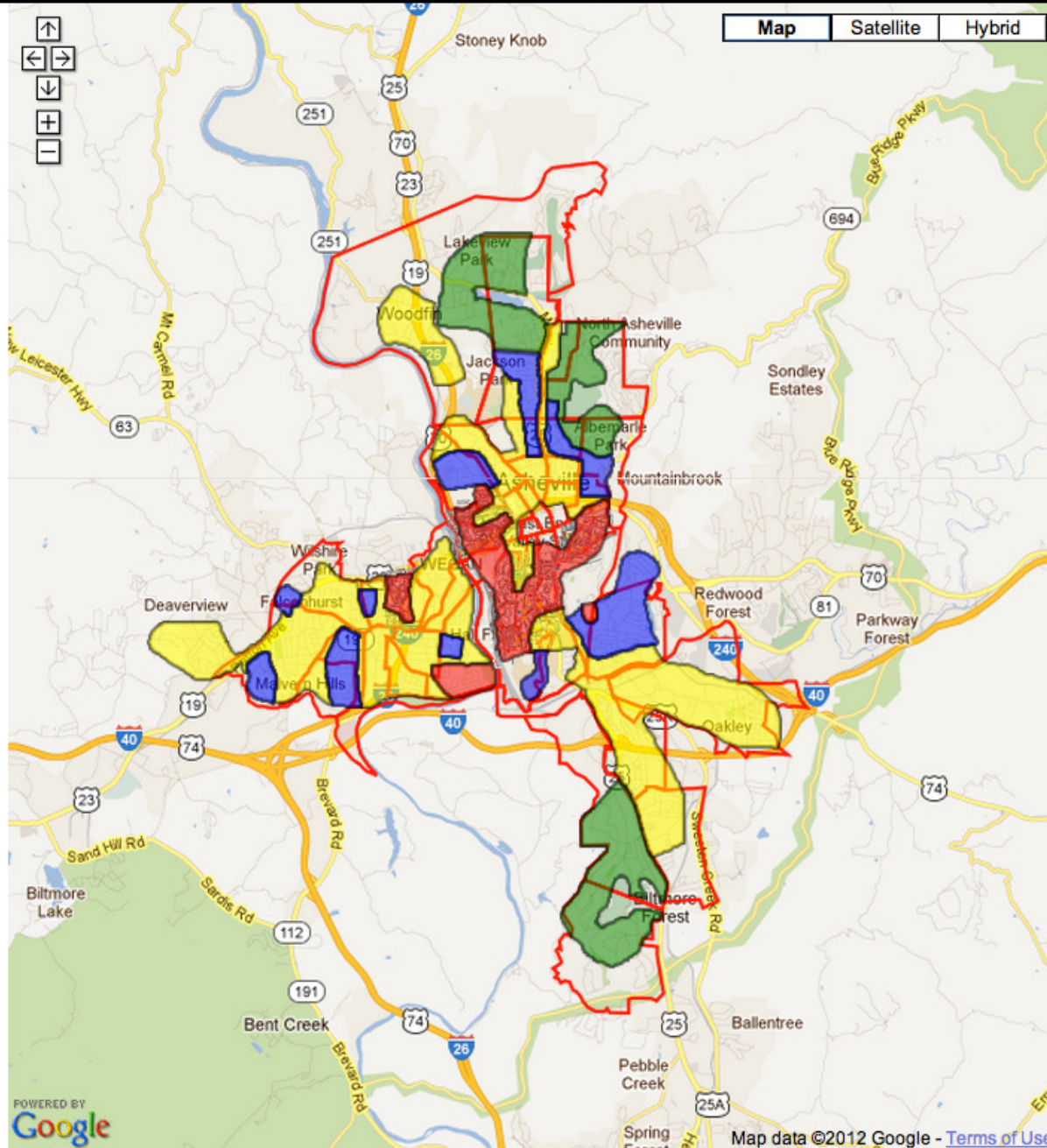
1940 Census

- ☒ ED Polygons

50s-70s Urban Renewal

- ☒ East End
- ☒ Southside
- ☒ Burton Street
- ☒ Stumptown & Hill Street

*Please use checkbox to turn on/off areas.



Map Satellite Hybrid

Tools

Home

Questions? Please email SALT at UNC dot EDU

Southern Redlining Collection

Asheville

1937 Security Areas

- ☒ Area A
- ☒ Area B
- ☒ Area C
- ☒ Area D
- ☐ Industrial & Commercial
- ☐ Sparsely Settled

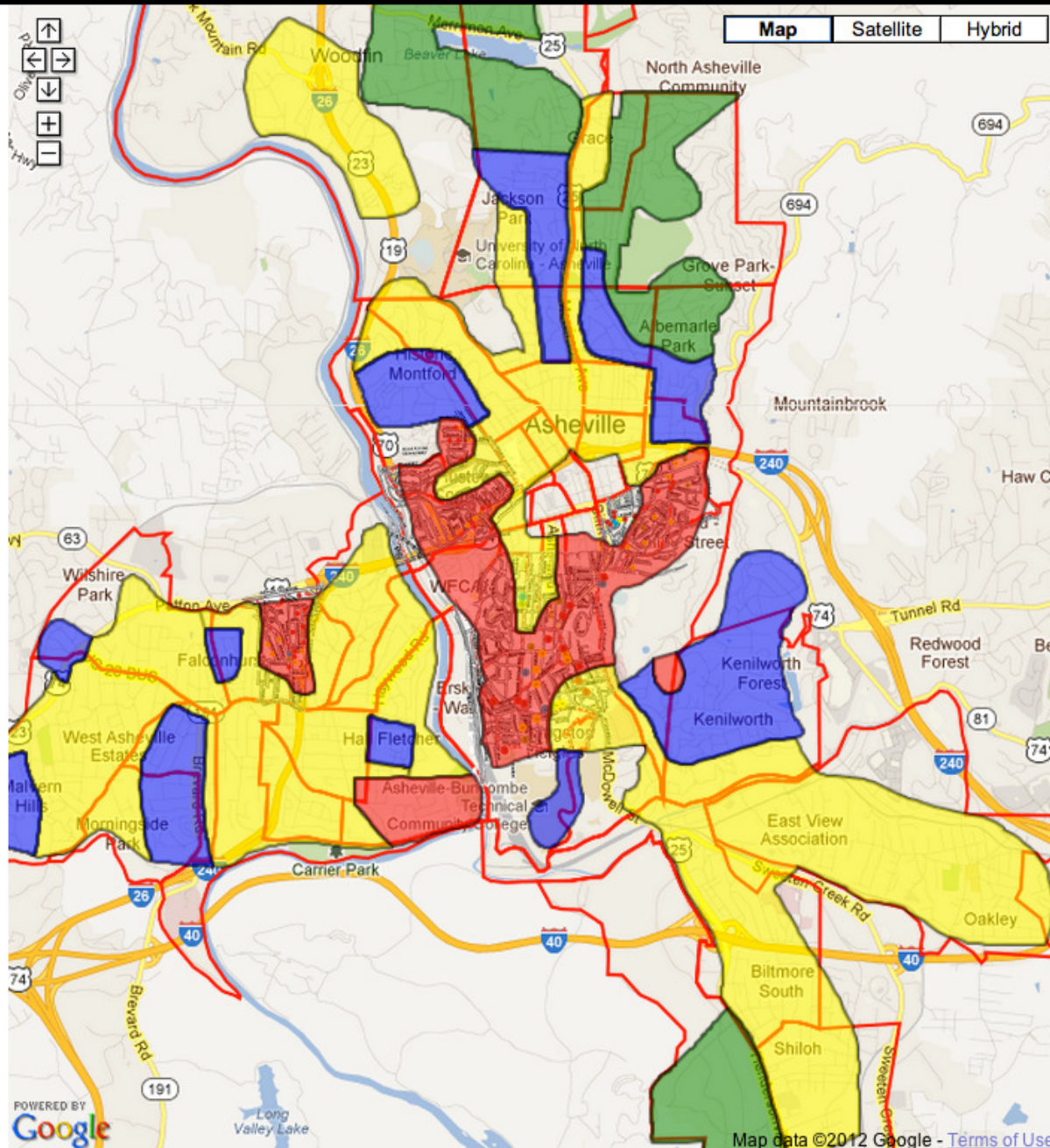
1940 Census

- ☒ ED Polygons

50s-70s Urban Renewal

- ☒ East End
- ☒ Southside
- ☒ Burton Street
- ☒ Stumptown & Hill Street

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Map Satellite Hybrid

Tools Home

query

Example queries:

Place:
 railroad
 mill
 industrial
 bleachery
 factory
 tannery
 hosiery
 brick +yard

Class:
 poor
 class
 worker
 laborer
 executive
 clerical
 capitalist
 common
 domestic

Race:
 negro
 white

Buildings:
 duplex
 apartment
 single
 brick -veneer
 frame
 stucco

Infrastructure:
 restricted
 inadequate
 unpaved
 ample
 cheap

Operators:
 + stands for **AND**
 - stands for **NOT**
 No operator implies **OR**
 * serves as **wildcard**
 "" matches only rows that contain the phrase literally

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Southern Redlining Collection

Asheville

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MS FORM-8
8-26-37

AREA DESCRIPTION

1. NAME OF CITY _____ SECURITY GRADE _____ ARBA NO. _____
2. DESCRIPTION OF TERRAIN. _____
3. FAVORABLE INFLUENCES. _____
4. DETRIMENTAL INFLUENCES. _____
5. INHABITANTS:
 - a. Type _____
 - b. Estimated annual family income _____
 - c. Foreign-born _____ %; d. Negro _____ %;
 - (Nationality) (Yes or No)
 - e. Infiltration of _____; f. Relief families _____;
 - g. Population is increasing _____; decreasing _____; static.
6. BUILDINGS:
 - a. Type or types _____; b. Type of construction _____;
 - c. Average age _____; d. Repair _____
7. HISTORY:

YEAR	RANGE	SALE VALUES		RENTAL VALUES	
		PREDOMINATING	%	PREDOMINATING	%
1929 level			100%		100%
low					
current					
Peak sale values occurred in _____ and were _____ % of the 1929 level.					
Peak rental values occurred in _____ and were _____ % of the 1929 level.					
8. OCCUPANCY: a. Land _____ %; b. Dwelling units _____ %; c. Home owners _____ %
9. SALES DEMAND: a. _____; b. _____; c. Activity is _____
10. RENTAL DEMAND: a. _____; b. _____; c. Activity is _____
11. NEW CONSTRUCTION: a. Types _____; b. Amount last year _____

Tools Home

Negro gradually

and

Yes

and

- ☒ 100%
- ☐ 2%
- ☐ 75%

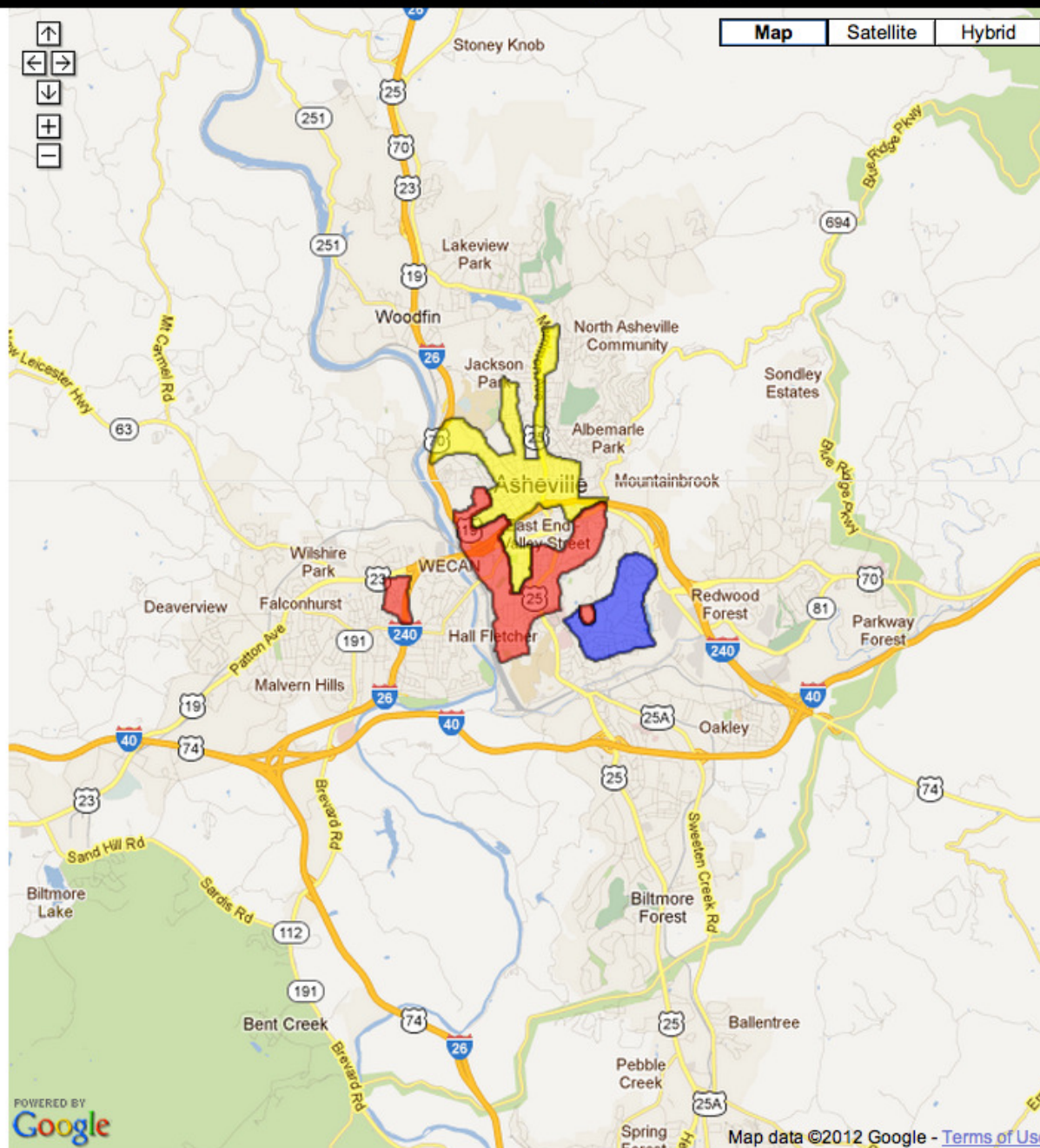
Questions? Please email SALT at UNC dot EDU

Southern Redlining Collection

Asheville

Search Results

- ☒ Area B
- ☒ B4:
Kenilworth
- ☒ Area C
- ☒ C2:
- ☒ Area D
- ☒ D1:
- ☒ D2:
Kenilworth
- ☒ D3: West
Asheville



Map Satellite Hybrid

Tools Home

negro domestic

query

[B4](#) [C2](#) [D1](#) [D2](#) [D3](#)

'Kenilworth'

B4 occurs in:

- Survey Report

- [page 23](#)
- [page 32](#)
- [page 34](#)

- Area Description

- [page10](#)

- Map

- [map](#)

B4 is part of:

- Area Description

'Old Kenilworth' & 'Kenilworth'

- [page10](#)

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**11-53**

11-53	
Enumeration District	11-53
1940 population	3117
1st set of schedules	http://bit.ly/HSB3zV
# of pages	50
2nd set of schedules	http://bit.ly/lqAESo
# of pages	30

Zoom +/-

24%

Brightness +/-

0%

Contrast +/-

0%

Colors:

Norm

Inverted

[illegible]

Tip: Clicking and dragging the image will allow you to view more of it! [More useful tips.](#)

Southern Redlining Collection

Asheville

1937 Security Areas

- ☒ Area A
- ☒ Area B
- ☒ Area C
- ☒ Area D
- ☒ Industrial & Commercial
- ☒ Sparsely Settled

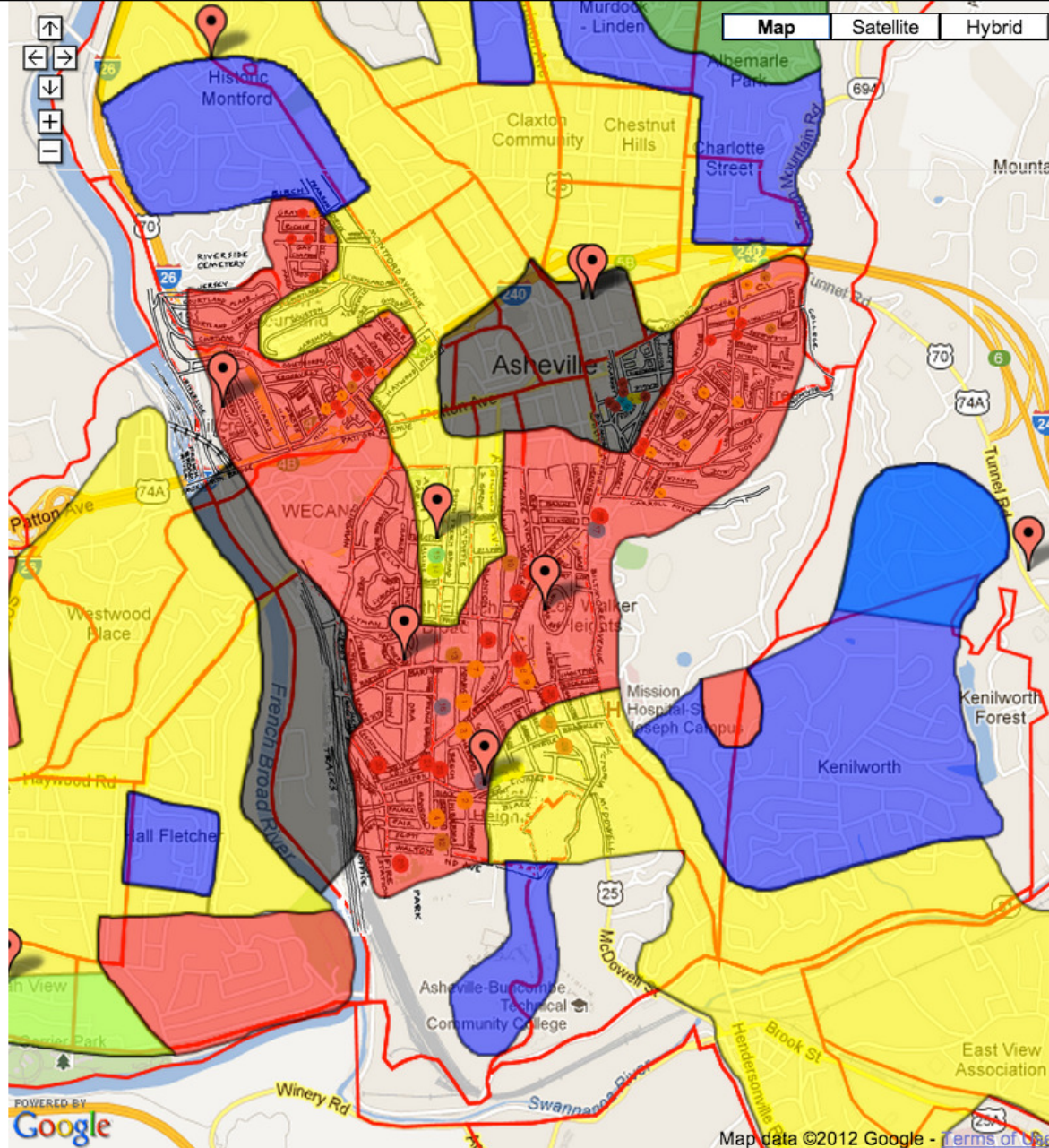
1940 Census

- ☒ ED Polygons

50s-70s Urban Renewal

- ☒ East End
- ☒ Southside
- ☒ Burton Street
- ☒ Stumptown & Hill Street
- ☒ HACA Communities

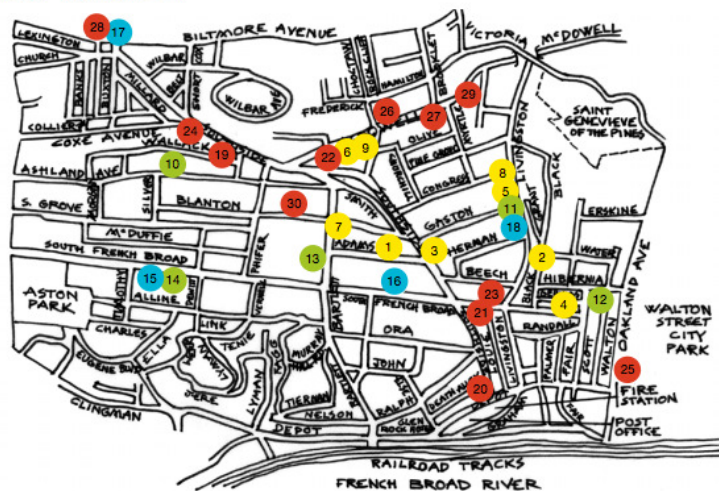
*Please use checkbox to turn on/off areas.



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SOUTHSIDE



CHURCHES

1. Bethel 7th Day Adventist Church — 51 Adams St.
2. Beulah Chapel Holiness Church — 111 Black St.
3. Church of God in Christ — 292 Southside Ave.
4. New Bethel Baptist Church — 508 S. French Broad Ave.
5. New Mount Olive Baptist Church — 148 Livingston St.
6. St. John's Church of God — 100 Southside Ave.
7. St. Luke's AME Zion Church — 40 Bartlett St.
8. Tabernacle Missionary Baptist Church — Corner of Livingston and Congress Streets
9. Worldwide Baptist Tabernacle Church — 85 Chocotaw St.

SCHOOLS

10. Asheland Ave. School (Closed 1949) — 190 Asheland Ave.
Phyllis Wheatley YWCA moved here
11. Livingston St. Elementary School — 133 Livingston St.
12. School of St. Anthony of Padua — 56 Walton St.
13. Stewart's School of Beauty Culture — 55 Bartlett St.
14. South French Broad High School — 197 S. French Broad Ave.

COMMUNITY ORGANIZATIONS

15. YWCA — 195 S. French Broad Ave.
16. Elks Club — 382 S. French Broad Ave.
17. Asheville Colored Hospital — 185 Biltmore Ave.
18. W.C. Reid Community Center — 133 Livingston St.

BUSINESSES

19. The Southern News — 121 Southside Ave.
20. James-Keys Hotel — 409 Southside Ave.
21. Allen-Birchette Funeral Home — 350 Southside Ave.
22. Conley's Barber Shop — 187 Southside Ave.
23. Fair Grocery — 452 S. French Broad Ave.
24. Sportsman Club — 105 Southside Ave.
25. Walton St. Park and Pool — End of Depot St.
26. McMorris Amoco Service — 71 McDowell St.
27. Rabbit's Tourist Court & Restaurant — 110 McDowell St.
28. Jesse Ray Funeral Home — 185 Biltmore Ave.
29. Southland Drive-In — 127 McDowell St.
30. Mae McCorkle's Beauty Shop — 87 Blanton St.

Map by Betsy Murray, Archivist, Pack Memorial Public Library. Based on a 1950 map of Asheville. Locations are approximate.

Southside/East Riverside: Lost — In the Name of Progress

Priscilla Ndiaye, Former Resident and Researcher of Southside Neighborhood

BY THE TIME of urban renewal, Southside was the city's premier black business district, surrounded by a large residential neighborhood. At over four hundred acres, the urban renewal project here was the largest in the southeastern United States. The scale of the devastation here was unmatched.

"In the East Riverside area," said the [late] Reverend Wesley Grant, "we have lost more than 1,100 homes, six beauty parlors, five barber shops, five filling stations, fourteen grocery stores, three laundromats, eight apartment houses, seven churches, three shoe shops, two cabinet shops, two auto body shops, one hotel, five funeral homes, one hospital, and three doctor's offices." The Reverend Grant's church still stands on Chocotaw Street.

Multiple perspectives, lack of knowledge, much confusion, and discouraged and bitter individuals are all entwined as spiders in a web: any way you touch it, it trembles.



Priscilla Ndiaye. Photo courtesy Story Point Media.

One perspective on this transformation sees families uprooted, relocated, and scattered; a community destroyed; a vibrant entrepreneurial business world shut down; and history fragmented, altered, and lost. A very different perspective sees economic benefits for the whole city and better living conditions for neighborhood residents.

Asheville's formal history was being made while Asheville's African American history was lost — in the name of progress. In 2008, for the first time an effort was made to collect this history through discussions and interviews [funded] by the YMI [Cultural Center] and the "Twilight of a Neighborhood" project.



Dewitt Street c. 1960. (L) Louvenia Booker. Center-Conaria Booker. Courtesy North Carolina Collection, Pack Memorial Public Library.

The L-A-N-D

Robert Hardy, Southside Neighborhood Association

Oh — But the Land — But the L-A-N-D! The community breakdown: the loss of businesses, neighbors, continuity, sanguinity, customs, culture, social norms, and family displacement.

Can one truthfully say there were no benefits? No! However, the benefits received when contrasted are a disproportionate negative to that which was gained!

For the most part, the landowners were either elderly and/or sick; more times than not the gains and homes were obscured and/or lost due to the eroded economic base and failing subsequent infrastructure. Purchased at a give-away price, these properties were resold for sums unattainable by the descendants of the original owners.

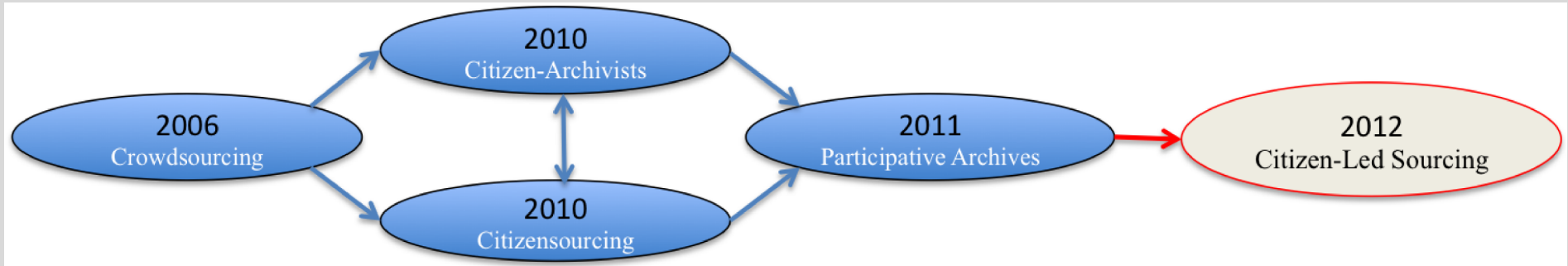


Southside c. 1968. Photo by Andrea Clark. Courtesy Andrea Clark Collection, Pack Memorial Public Library.

The resulting "fiasco" which we are now living is perpetual poverty for the descendants and gentrification of their land.

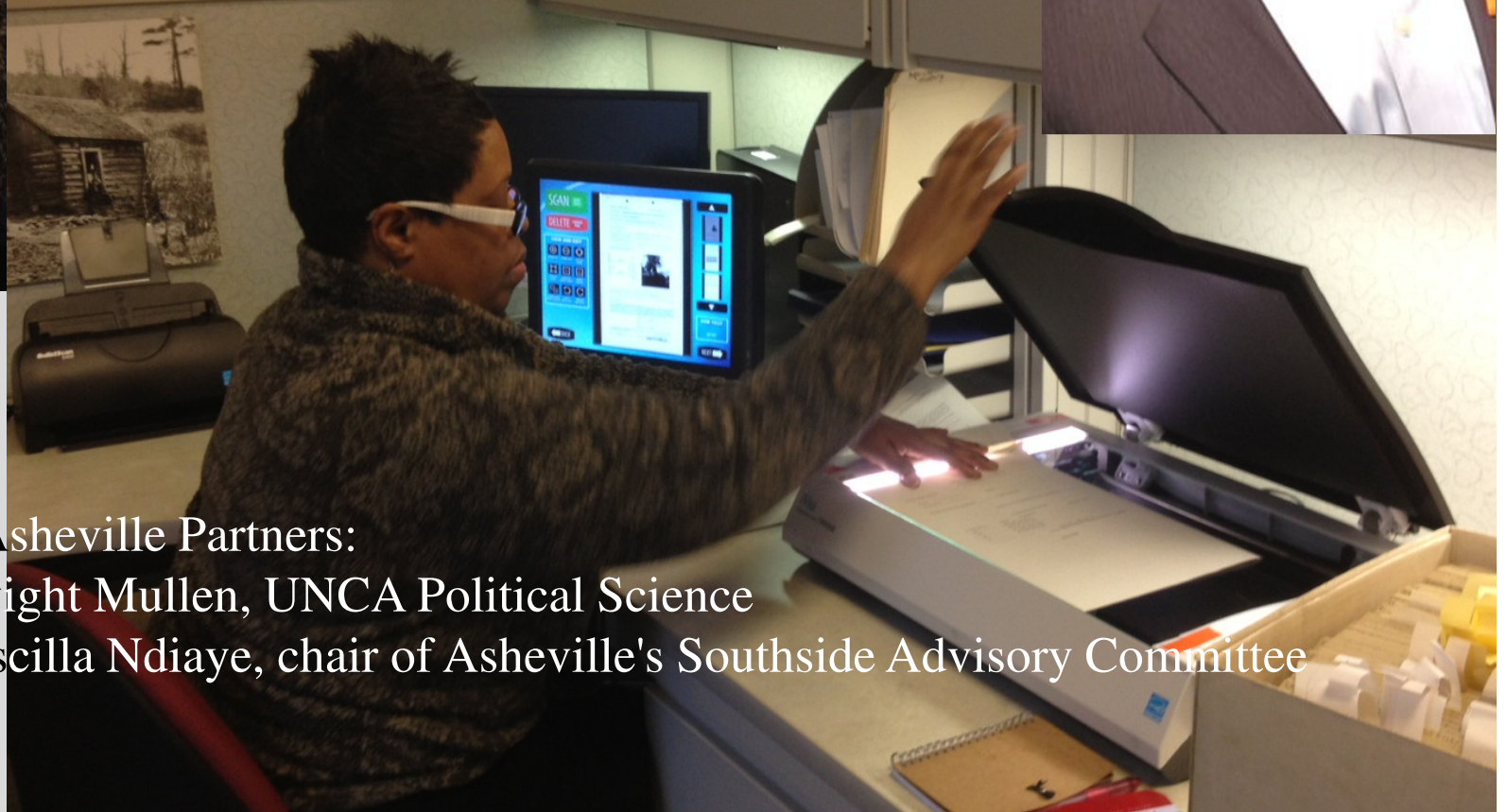
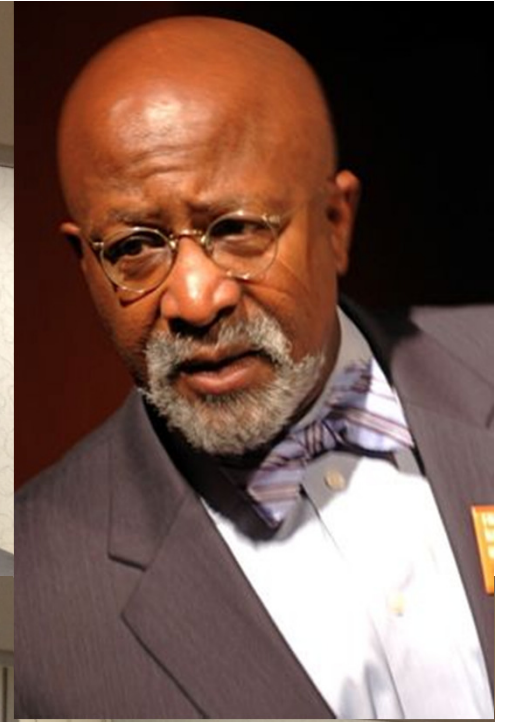
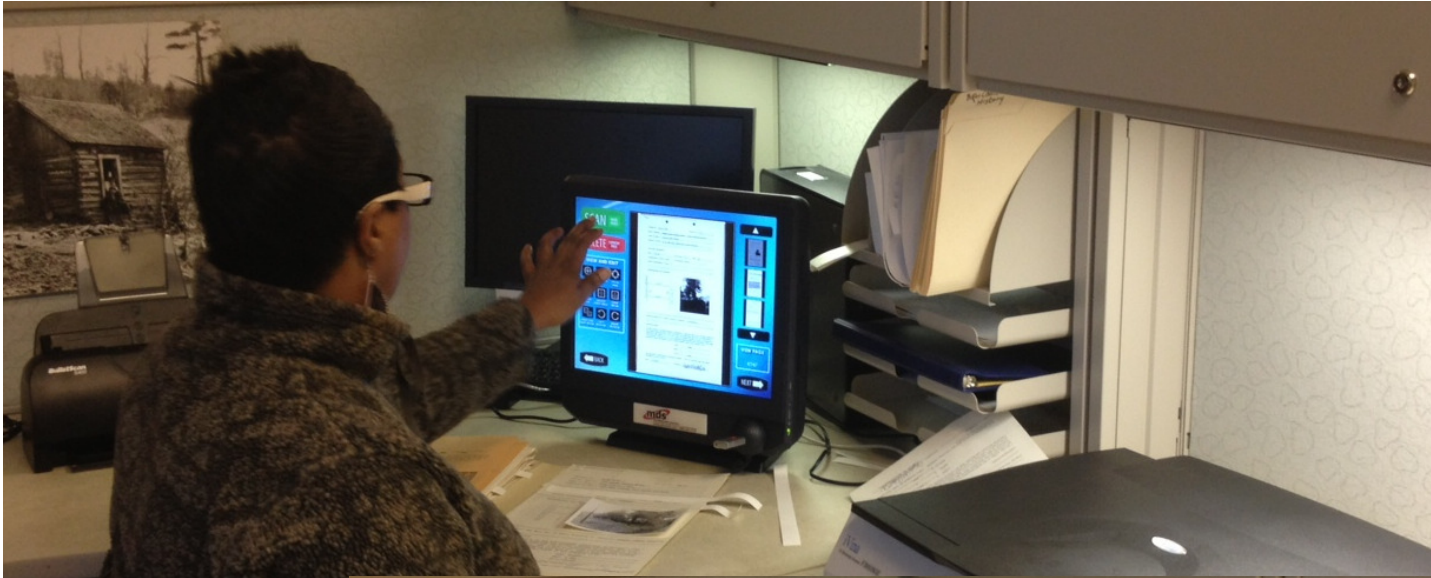
“Public Scholarship”

Kathy Woodward, UW Simpson Center for the Humanities



From Crowdsourcing to Citizen-led Sourcing

- **University** of North Carolina Asheville (UNCA): **staff** (provost, head librarian, head of special collections, library staff, departments of computer science / history / political science), **centers** (National Environmental Modeling and Analysis Center / Center for Diversity Education), and **students**
- **Community**-based development **organizations** (Green Opportunities Corps, Asheville Design Center)
- **Neighborhood** community group leaders and residents (Southside, Burton Street, East End)
- **City** of Asheville officials (Housing Authority of the City of Asheville, Planning & Development Department, West Asheville Public Library, Chamber of Commerce)
- **County** (head of Buncombe County Register of Deeds, Land-Of-Sky Regional Council)
- **Other** groups including the North Carolina Humanities Council, Mountain Housing Opportunities Inc.
- **“Twilight of a Neighborhood: Asheville’s East End, 1970” project**. This project examined the process and aftermath of urban renewal and collected voices of residents, after the 2007 transfer of records to UNC Asheville. We have secured support and commitment from the community groups relevant to tackling this project.
- Asheville’s African-American Community Historical **Bus Tour**, June 19, 2012 (35 people)



UNCA & Asheville Partners:

- Dwight Mullen, UNCA Political Science
- Priscilla Ndiaye, chair of Asheville's Southside Advisory Committee



ANTHONY REDMOND
ATTORNEY AT LAW
P. O. Box 7205
ASHEVILLE, N. C.

REPORT ON TITLE FOR:
REDEVELOPMENT COMMISSION OF THE CITY OF ASHEVILLE

Records of Buncombe County, N. C.

TITLE VESTED IN: Amelia K. Candler, Eva K. Clederas, and
Steve Kalogerakis

N. C. R-48
Block 1, Parcel 2
198 & 198 1/2 Hilliard

By the following instrument:

Bessie S. Kalogerakis Type: Will

Dated:

TO

Amelia K. Candler,
Eva K. Clederas,
Steve Kalogerakis

Registered:

Book BBBB Page 45

LEGAL DESCRIPTION OF PROPERTY: In the City of Asheville

BEGINNING at a stake in the Southern margin of Hilliard Avenue, said Beginning stake being South 84 deg. 25 min. East 95.2 feet from the intersec said Southern margin of Hilliard Avenue with the Eastern margin of Avenue; runs thence with the said Southern margin of Hilliard Avenue 84 deg. 25 min. East 55.94 feet to a stake in same; thence South 1 West 23 feet to a locust hub, the Southeast corner of a tract conv E. Clark and wife to W. S. Harrison and wife by deed dated August recorded in Book 590, at page 301, in the Office of the Register of Buncombe County, N. C.; thence with the Southern line of the said tract, North 89 deg. 12 min. West 55.98 feet to a stake opposite to of a party wall, which stake is South 89 deg. 12 min. East 95.24 feet Eastern margin of Ashland Avenue; thence North 1 deg. 47 min. East the center line of said party wall, 27.66 feet to a stake, the place BEGINNING. Together with any and all right, title and interest of the first part in and to the sidewalk on Hilliard Avenue which sidewalk adjoins the above described property on the North. Being the East that certain property described in a deed from Carl E. Clark and wife to W. S. Harrison and wife, Beulah L. Harrison dated August 3 recorded in Book 590, page 301 in the Office of the Register of Buncombe County, N. C.

TAXES LISTED IN THE NAME OF: Lucas & Bessie Kalogerakis

Ward 4, Sheet 1, Lots 339 & 340, Valuation: Real Personal

ABOVE PROPERTY IS SUBJECT TO:

a. Taxes and Assessments: Ad Valorem taxes for the years 1949 and 1963 through 1968 in the total amount, to May 1, of \$1,308.48; and 1969 taxes, a lien but not yet due and payable.

b. Mortgages, Deeds of Trust, Vendors Liens: None of record

Project No. N. C. R-48 Parcel No. 1-2
Parcel Address 198 & 198 1/2 Hilliard Avenue, Asheville, N. C.
Name of Owner Bessie Kalogerakis
Address of Owner c/o Amelia Candler, 70 Rumbough Place, Asheville, N. C.

FOR LAST TRANSFER

Date September 26, 1947 Deed Book 646 Page 417
Consideration: Deed \$ 10.00 Documentary Stamp \$ 8.80
Actual Consideration, Terms, etc.

PHOTOGRAPHS and DRAWING

AVE.

FEDERAL ST



1 Best Use To Which Property Is Adaptable Commercial

ION:

I certify to the Redevelopment Commission of Asheville that I have fully inspected the property herein described; that to the best of my knowledge and belief, the information contained in this appraisal is correct; that I have no personal interest, present or prospective, in the property referred to; that I have applied accepted standards of real estate appraisal practice and thereby represent the market value of the property to be:

LAND: \$ 2800
IMPS. \$ 4200
TOTAL: \$ 7000

This appraisal is based upon the following condition: I have accepted the legal description furnished by you as correct.

Date July 31, 1968

Appraiser: Alan Butterworth
W. T. Duckworth Company

Sustainable Archives & Leveraging Technologies (SALT)

The discipline of digital preservation can be described as the practice of managing **content**, in the context of **infrastructure**, dealing with **governance** issues, and managing **policies**.

