

Early life Exposures and Cognitive Functioning in Later Life: Findings, and a Case for More and Better Data

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INSTITUTE FOR
SOCIAL RESEARCH & DATA INNOVATION

IPUMS **MPC**  LIFE COURSE
CENTER

OBSERVATION:

Childhood conditions, exposures, and experiences matter
for long-term cognitive functioning and decline

OBSERVATION:

Measuring childhood conditions, exposures, and experiences requires one of three things:

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- ~~1. Perfect and detailed retrospective recall of early life (across decades)~~
- ~~2. Following representative groups of people for many decades~~
3. “Seeing” today’s older people in data collected organically when they were children

ACT records will soon be linked to historical U.S. Census records

IPUMS Multigenerational Longitudinal Panel



IPUMS MLP



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*"All" of today's older Americans show up
as children in old U.S. decennial census records.*

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IPUMS provides census and survey data from around the world integrated across time and space. IPUMS integration and documentation enable researchers to conduct comparative research, merge information across data types, and analyze individuals within family and community context without charge.



U.S. Census and American Community Survey microdata from 1850 to the present. [Learn More](#)

VISIT SITE



Current Population Survey microdata including basic monthly surveys and supplements from 1962 to the present. [Learn More](#)

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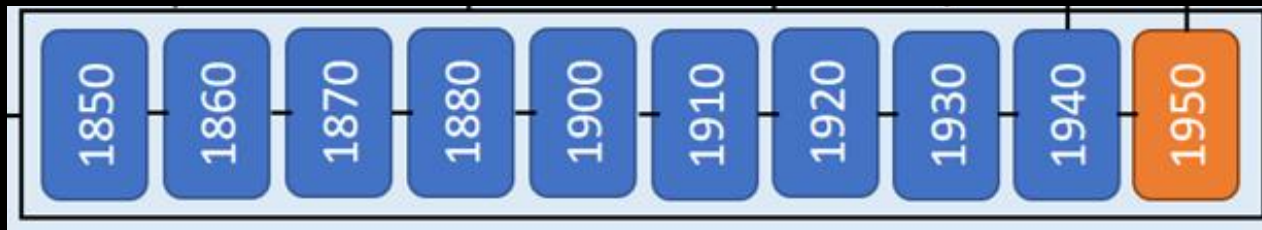
World's largest collection of census microdata covering over 100 countries, contemporary and historical. [Learn More](#)

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CENSUS RECORDS DESTROYED BY FIRE

Department of Commerce Blaze
Results in Disastrous Loss
of Documents

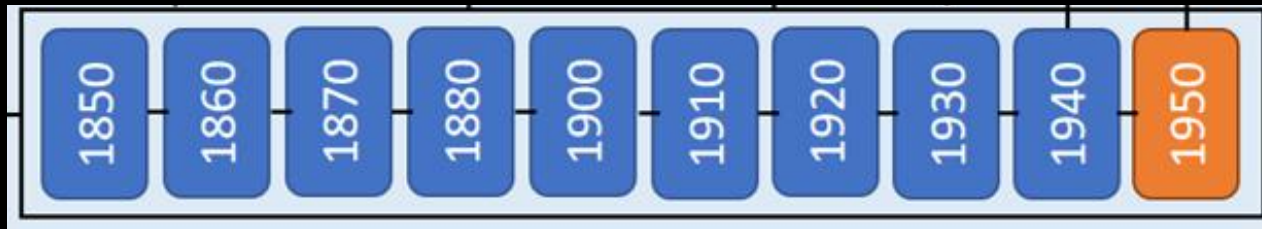
LOCATED BY WATCHMAN

Finds Basement Full of Smoke—
Three Firemen Overcome
by Fumes

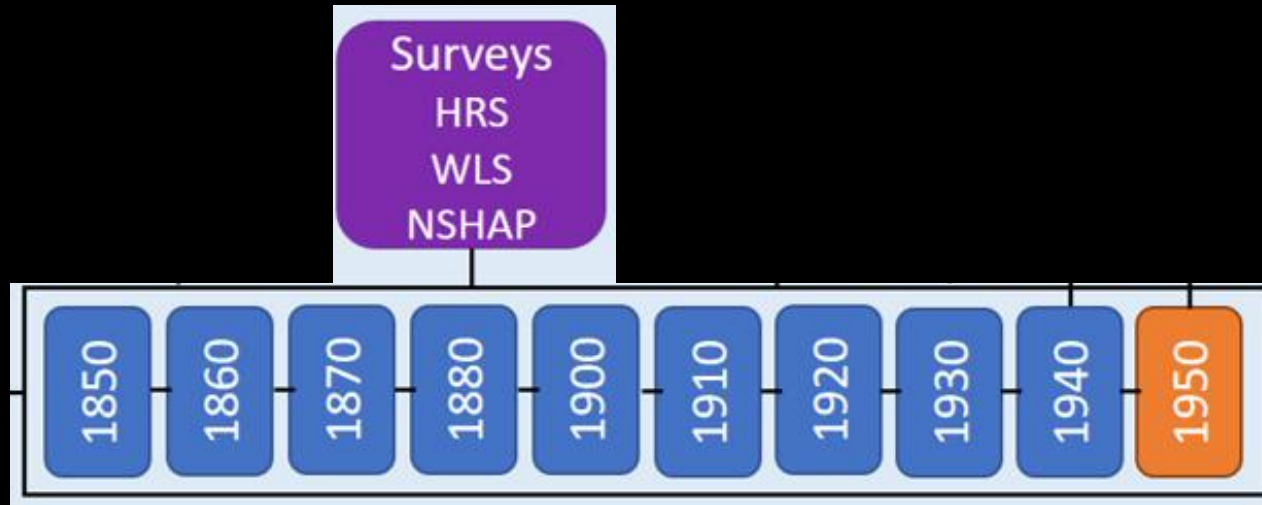
Washington, aJn. 11. — Priceless census records, dating back to 1790, when the first enumeration of the United States was taken, were destroyed last night in a fire of undetermined origin at the Department of Commerce. The records included figures from every census up to the present one and officials said that it would be days before even an estimate of the damage could be given.

The blaze originated in the basement of the commerce building and five alarms quickly brought every piece of apparatus in downtown Washington to the scene and more than twenty lines of hose completed the damage done to the records by pouring tons of water through windows into vaults where the records were kept.

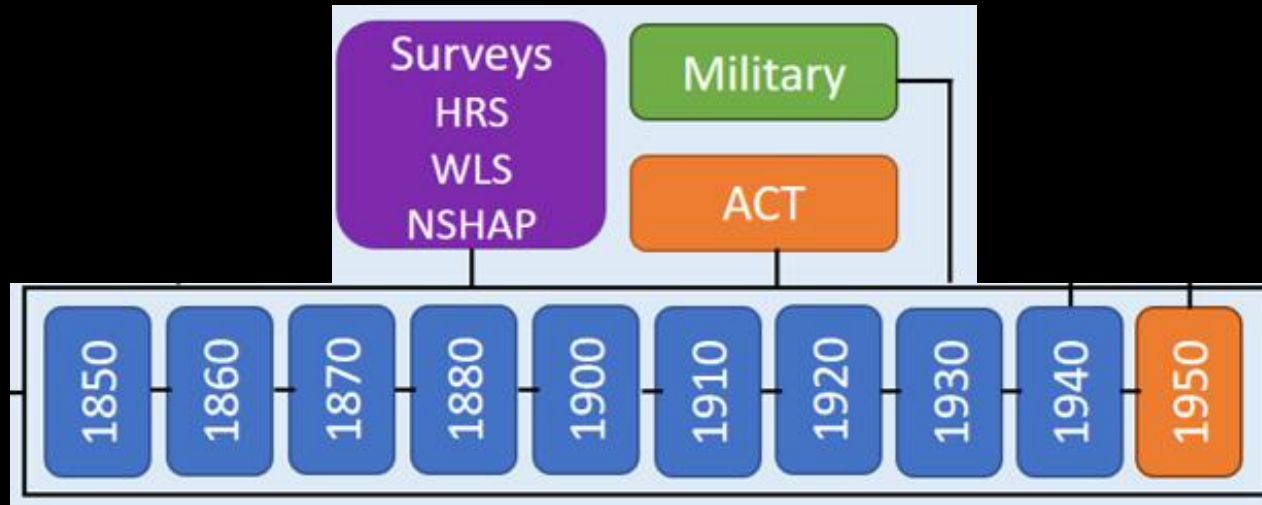
IPUMS Multigenerational Longitudinal Panel



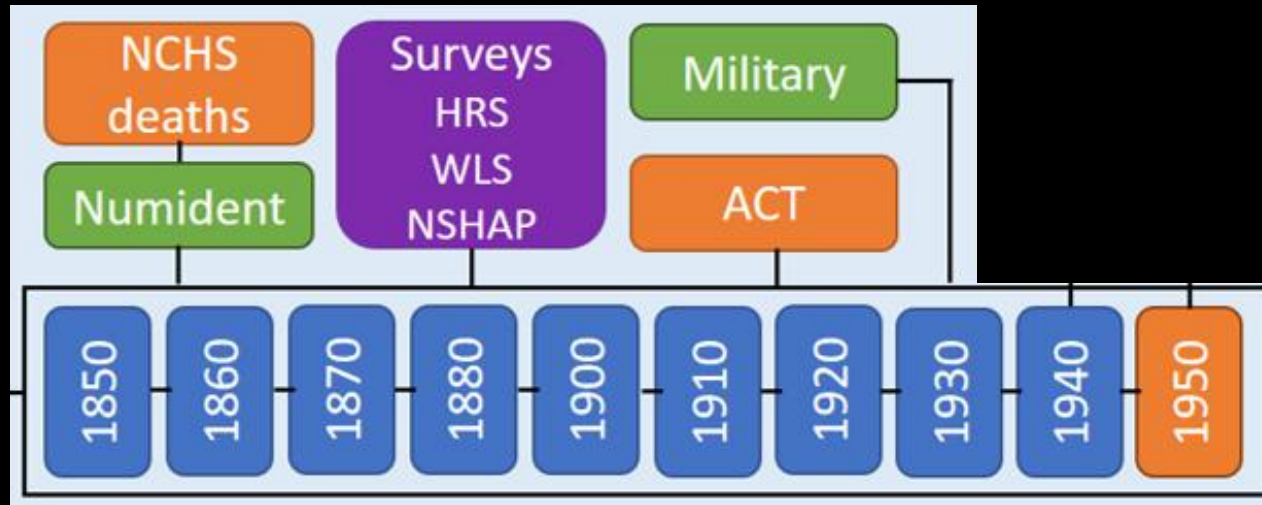
IPUMS Multigenerational Longitudinal Panel



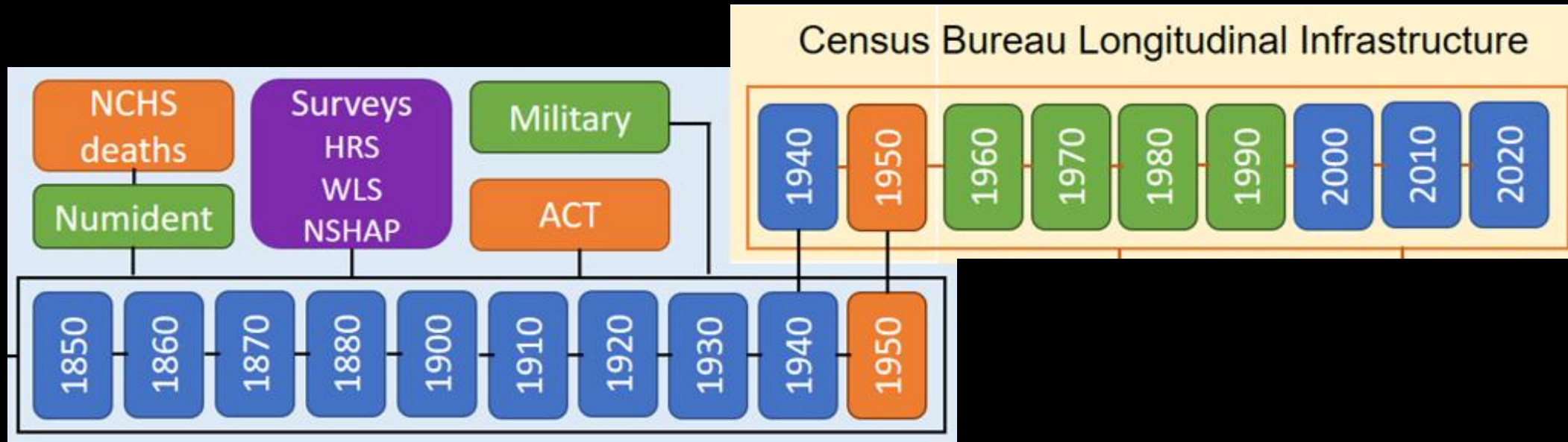
IPUMS Multigenerational Longitudinal Panel



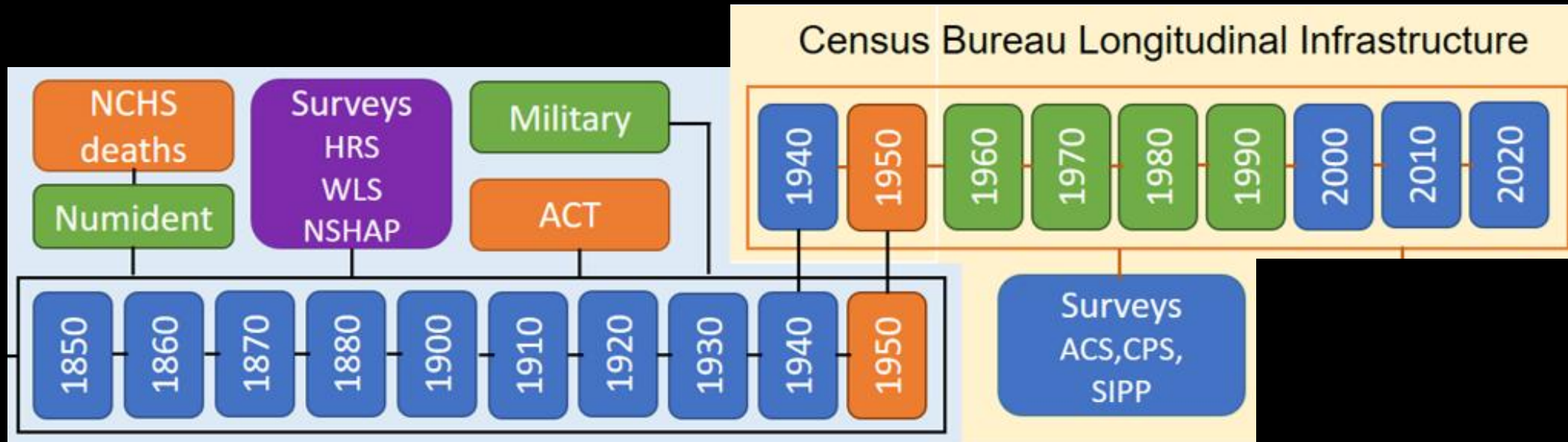
IPUMS Multigenerational Longitudinal Panel



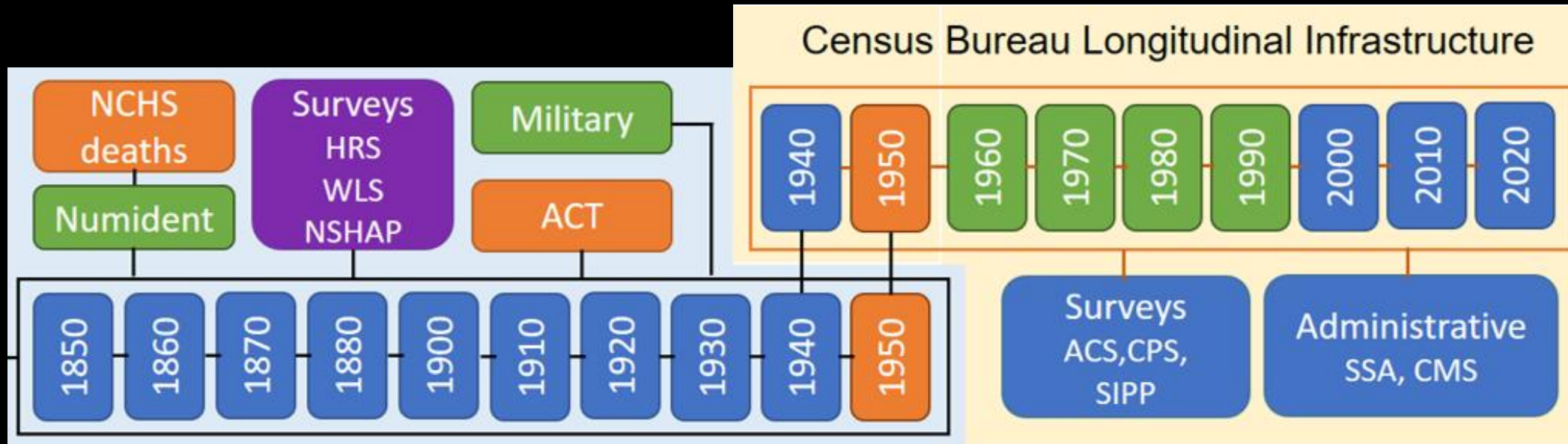
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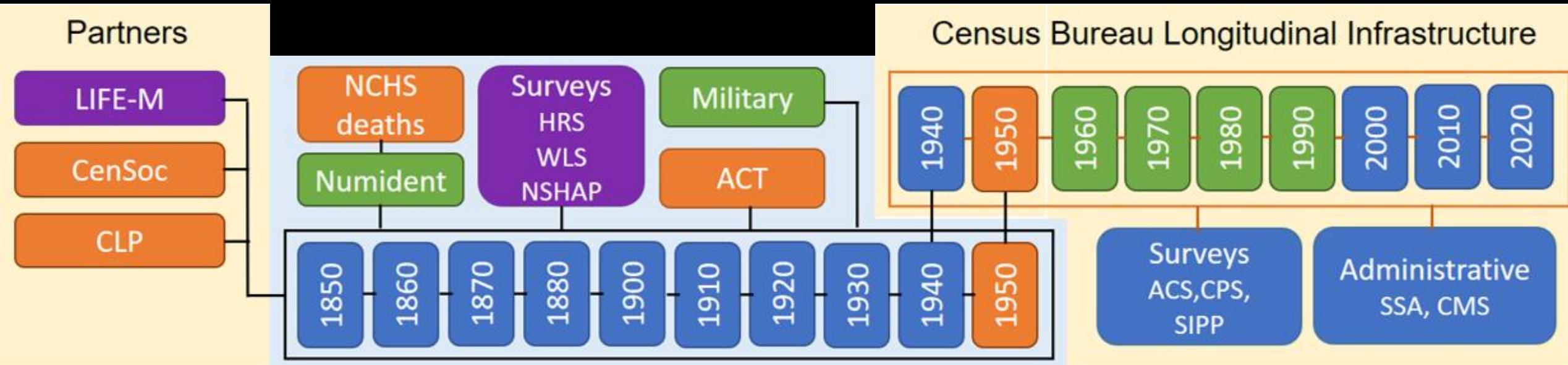
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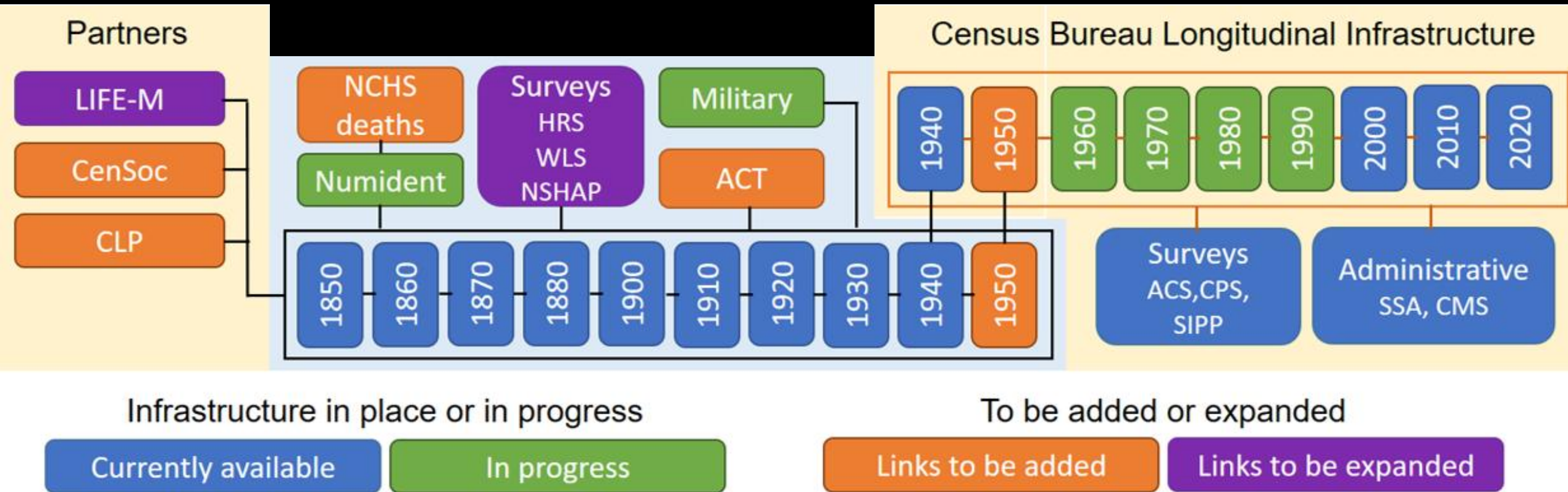
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IPUMS Multigenerational Longitudinal Panel



What Can We Learn about Early Life for Today's Older People?

Sheet No. _____ **A**

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next

OR MILITARY SERVICE:	
and War.....	W
ish-American War,	
ilippine Insurrection,	
Boxer Rebellion.....	S
ish-American War and	
old War.....	SW
ar establishment (Army,	
ry, or Marine Corps)	
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Your report is required by Act of Congress. This Act makes it unlawful for the Bureau to disclose any facts, including names or identity, from your census collected will be used solely for preparing statistical information concerning the Nation's population, resources, and business activities. Your Census

DEPARTMENT OF COMMERCE—BUREAU OF THE CENSUS
SIXTEENTH CENSUS OF THE UNITED STATES
POPULATION SCHEDULE

Ward of city _____ Unincorporated place _____
(Name of unincorporated place having 100 or more inhabitants)

Block Nos. _____ Institution _____
(Name of institution and lines on which entries are made)

PERSONAL DESCRIPTION		EDUCATION		PLACE OF BIRTH		CITIZENSHIP		RESIDENCE, APRIL 1, 1935		PER	
Code	Description	Code	Description	Code	Description	Code	Description	Code	Description	Code	Description
1	Age at last birthday	2	Highest grade of school completed	3	Country of birth	4	State, Territory, or Possession	5	City, town, or village	6	County
7	Sex—Male (M), Female (F)	8	Color or race	9	Marital status—Single (S), Married (M), Widowed (Wd), Divorced (D)	10	Attended school or college any time since March 1, 1940? (Yes or No)	11	Attended school or college any time since March 1, 1940? (Yes or No)	12	Attended school or college any time since March 1, 1940? (Yes or No)
13	Was this person AT WORK for pay or profit in private or nonemergency Govt. work during week of March 24-30? (Yes or No)	14	If not, was he at work on, or assigned to, public EMERGENCY WORK (WPA, NYA, CCC, etc.) during week of March 24-30? (Yes or No)	15	Was this person SEEKING WORK? (Yes or No)	16	If not seeking work, did he HAVE A JOB, business, etc.? (Yes or No)	17	Indicate whether engaged in home work (H), in school (S), unable to work (U), or other (O)	18	Number of hours worked during week of March 24-30, 1940

OF COMMERCE—BUREAU OF THE CENSUS
CENSUS OF THE UNITED STATES: 1940
ULATION SCHEDULE

S. D. No. _____ E. D. No. _____

Sheet No.

Enumerated by me on _____, 1940.

A

_____, Enumerator.

PERSONS 14 YEARS OLD AND OVER—EMPLOYMENT STATUS

Was this person AT WORK for pay or profit in private or nonemergency Govt. work during week of March 24-30? (Yes or No)		If not, was he at work on, or assigned to, public EMERGENCY WORK (WPA, NYA, CCC, etc.) during week of March 24-30? (Yes or No)		If neither at work nor assigned to public emergency work. ("No" in Cols. 21 and 22)		For persons answering "No" to quest. 21, 22, 23, and 24		If at private or nonemergency Govt. work. ("Yes" in Col. 21)		If seeking work or assigned to public emergency work. ("Yes" in Col. 22 or 23)		OCCUPATION, INDUSTRY, AND CLASS OF WORKER For a person <i>at work</i> , assigned to <i>public emergency work</i> , or <i>with a job</i> ("Yes" in Col. 21, 22, or 24), enter <i>present occupation</i> , industry, and class of worker. For a person <i>seeking work</i> ("Yes" in Col. 23): (a) If he has previous work experience, enter <i>last occupation</i> , industry, and class of worker; or (b) if he does not have previous work experience, enter "New worker" in Col. 28, and leave Cols. 29 and 30 blank.				INCOME IN 1939 (12 months ending December 31, 1939)		Number of Farm Schedule	Line No.
21	22	23	24	25	E	26	27	28	29	30	F	31	32	33	34				
																	1		
																	2		
																	3		
																	4		
																	5		
																	6		
																	7		
																	8		

[illegible]

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For Persons Enumerated on Lines 14 and 29

FOR PERSONS OF ALL AGES

QUESTIONS									
For Persons Enumerated on Lines 14 and 29		PLACE OF BIRTH OF FATHER AND MOTHER			MOTHER TONGUE (OR NATIVE LANGUAGE)		VETERAN-FATHER		
Line No.	NAME	<p>If born in the United States, give State, Territory, or possession If foreign born, give country in which birthplace was situated on January 1, 1937 Distinguish Canada-French from Canada-English and Irish Free State (Eire) from Northern Ireland</p>			Language spoken in home in earliest childhood	CODE (Leave blank)	<p>Is this person a United States or the wife, w 18-year-old ch</p>		
		FATHER	MOTHER	CODE (Leave blank)			If so, enter "Yes"	If child, is veteran-father dead? (Yes or No)	
	35	36	37	G	38	H	39	40	
14									
29									

Col. 5. VALUE OF HOME, IF OWNED:

Where owner's household occupies only a part of a structure estimate value of portion occupied by owner's household. Thus the value of the unit occupied by the owner of a two-family house might be approximately one-half the total value of the structure.

Col. 10. COLOR OR RACE:

White	W	Filipino	Fil
Negro	Neg	Hindu	Hin
Indian	In	Korean	Kor
Chinese	Chi	Other races, spell	
Japanese	Jp	out in full.	

Col. 11. AGE AT LAST BIRTHDAY:

Enter age of children born on or after April 1, 1939, as follows. Do

April 1939	11/13	October 1939
May 1939	10/12	November 1939
June 1939	9/12	December 1939
July 1939	8/12	January 1940
August 1939	7/12	February 1940
September 1939	6/12	March 1940

(Do not include children born on or after April 1, 1940.)

Illustration: Imagine That My Grandfather Was an ACT Participant

Line No.	HOUSEHOLD DATA						NAME	RELATION	PERSONAL DESCRIPTION	EDUCATION	PLACE OF BIRTH	DATE OF BIRTH	RESIDENCE, APRIL 1, 1940										PERSONS 14 YEARS OLD AND OVER—EMPLOYMENT STATUS									
	1	2	3	4	5	6							13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
IN WHAT PLACE DID THIS PERSON LIVE ON APRIL 1, 1940? If a person was April 1, 1940, was living in the same house as at present, enter in the same place, leaving Code 13, 14, and 15 blank, in both columns. If he or she had moved since April 1, 1940, enter the place where he or she was living on April 1, 1940, in the same place, leaving Code 13, 14, and 15 blank, in both columns. If he or she had moved since April 1, 1940, enter the place where he or she was living on April 1, 1940, in the same place, leaving Code 13, 14, and 15 blank, in both columns. If he or she had moved since April 1, 1940, enter the place where he or she was living on April 1, 1940, in the same place, leaving Code 13, 14, and 15 blank, in both columns.													OCCUPATION, INDUSTRY, AND CLASS OF WORKER If a person was 14 years of age or over on April 1, 1940, was he or she engaged in any occupation, industry, or service? 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SYMBOLS AND EXPLANATIONS: Where owner's household consists of only one person, enter value of person occupied by owner. If owner's household consists of more than one person, enter value of all persons occupied by owner. If owner's household consists of more than one person, enter value of all persons occupied by owner. If owner's household consists of more than one person, enter value of all persons occupied by owner.

Unincorporated place _____
(Name of unincorporated place having 100 or more inhabitants)

Institution _____
(Name of institution and lines on which entries are made)

SUPPL
QUEST

Illinois	6161	No	No	No	No	U	7										0	0	No	23
n. y.	4551	Yes	-	-	-	-	1	45	Lumber Co.	Lumber Co.	E	156	73	3	52	0	No			24
n. y.	4551	No	No	No	No	H	5										0	0	No	25
n. y.	4551																			26
n. y.	4551																			27
n. y.	4551																			28
n. y.	4551																			29
n. y.	4551	No	No	No	No	U	7										0	0	No	30
		Yes	-	-	-	-	1		Teacher	State College	GW	110	91	2	48	3995	No			31
		No	No	No	No	H	5										0	0	No	32
		No	No	No	No	S	6										0	0	No	33
		No	No	No	No	S	6										0	0	No	34
		Yes	-	-	-	-	1	1004	Nurse	Nurse	OA	136	92	4	42	0	No			35
		Yes	-	-	-	-	1	22	Music teacher	Music teacher	OA	128	91	4	45	0	No			36
		Yes	-	-	-	-	1	40	Investigator	Credit Co	PW	200	8	1	88	1500	No			37
		Yes	-	-	-	-	1	40	stenographer	Box Co.	PW	236	12	1	52	750	No			38
Illinois	No 6X31	Yes	-	-	-	-	1	72	Blockman	Machine Co.	PW	496	3	1	1	0	0	No		39
Illinois	No 6X31	No	No	No	No	H	5										0	0	No	40

14 YEARS OLD AND OVER				FOR ALL WOMEN WHO ARE OR HAVE BEEN MARRIED			FOR OFFICE USE ONLY—DO NOT WRITE IN THESE COLUMNS														Line No.
OCCUPATION, INDUSTRY, AND CLASS OF WORKER Enter the person regards as his usual occupation and at which he is physically unable to determine this, enter that occupation at which he has worked 10 years and at which he is physically able to work. Enter also usual industry. If no work experience, enter "None" in Col. 45 and leave Cols. 46 and 47.				Has this woman been married more than once? (Yes or No)	Age at first marriage	Number of children ever born (Do not include stillbirths)	Ten (4)	V-E (5)	Fm. reg. and Sex (6 and 9)	Color and nat. (10, 15, 24, and 27)	Age (11)	Mar. st. (12)	Gr. own. (13)	Ch. (14)	Wrk. st. (15)	Hrs. whd. or Dur. un- (26 or 27)	Occupation, industry, and class of worker (27)	Wks. whd. (31)	Wages (32)	Ch. inc. (33)	
46	47	48	49	50	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	
Paint Co.	PW 278 15 1				1	4	1		4	2	30		1	V	278 15 1	9	24	0	0		
					0	6	2		6	1	1								2		

Col. 16. CITIZENSHIP OF THE FOREIGN BORN
Naturalized..... Na
Having first papers..... Pa

Col. 21. WAS THIS PERSON AT WORK? Enter "Yes" for persons at work for pay or profit in private or non-emergency Government work. Include unpaid family workers—that is, related members of the household.

Col. 24. DID THIS PERSON HAVE A JOB? Enter "Yes" for a person (not seeking work) who had a job, business, or professional enterprise, but did not work during week of March 24-30 for any of the following reasons: Vacated, dismissed, or laid off.

Cols. 30 and 47. CLASS OF WORKER:
Wage or salary worker in private work..... PW
Wage or salary worker in Government work..... GW

Col. 41. WAR OR MILITARY SERVICE:
World War..... W
Spanish-American War, Philippine Insurrection, or Boxer Rebellion..... S
Spanish-American War and

MAP OF THE CITY OF TERRE HAUTE INDIANA

THE MOORE-LANDEN PUBLISHING CO.
TERRE HAUTE, IND.

City Boundary

TH. & E. TRACKS — Single
TH. & E. TRACKS — Double



719572936532372945767895371957293653237
884758843399587216586372188475884339958
325147918574184217338887252429185741
941882884918143834619731694188288491814
836189189584715372848492483618918958471

S.ORG

MAP OF THE CITY OF TERRE HAUTE INDIANA

THE MOORE-LANDEN PUBLISHING CO.
TERRE HAUTE, IND.

City Boundary

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TH. & E. TRACKS — Double



Neighbors

MAP OF THE CITY OF TERRE HAUTE INDIANA

THE MOORE-LANDEN PUBLISHING CO.
TERRE HAUTE, IND.

City Boundary

TH. & E. TRACKS — Single
TH. & E. TRACKS — Double



Factory

Railroad

Park



To Paris
City cars operate 1.85 miles west they West

PARK GROUNDS

To Brazil
City cars operate 1.85 miles east to Brazil
Completing City Fare

HALL SQUARE
ADJUTANT SQUARE

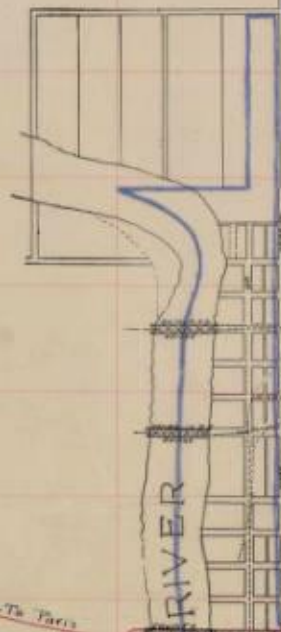
S.ORG

MAP OF THE CITY OF TERRE HAUTE INDIANA

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City Boundary

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TH. & E. TRACKS — Double



Policies (city, county, school district, state)

Environment (e.g., air pollution, water quality, extreme weather, radon, industry, roads, atomic fallout)

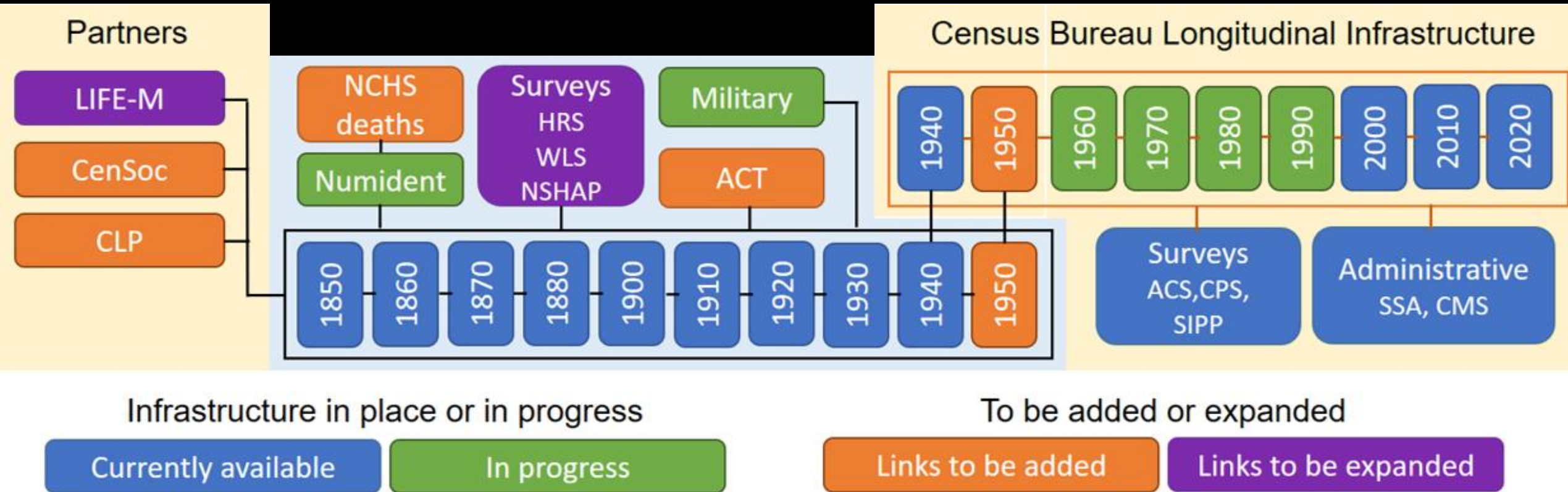
Economy (city, county, state; local industry)

History (demographic; civil unrest; economic; political)

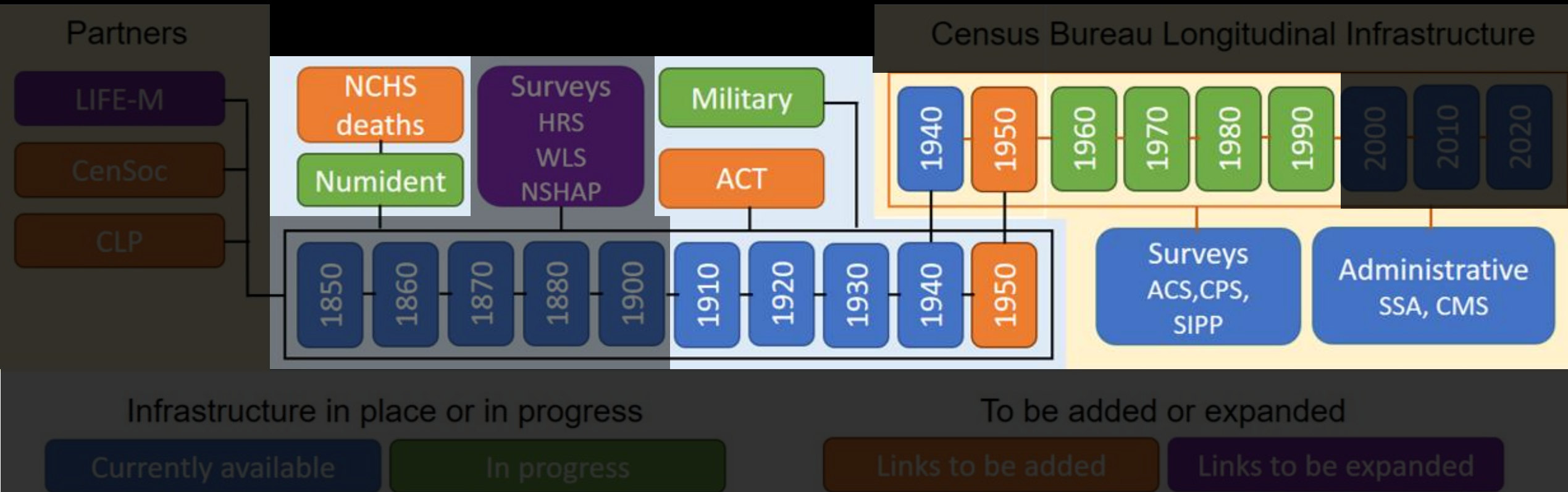
Time (past, present, future)

And that's all just from one Census...

IPUMS Multigenerational Longitudinal Panel



IPUMS Multigenerational Longitudinal Panel



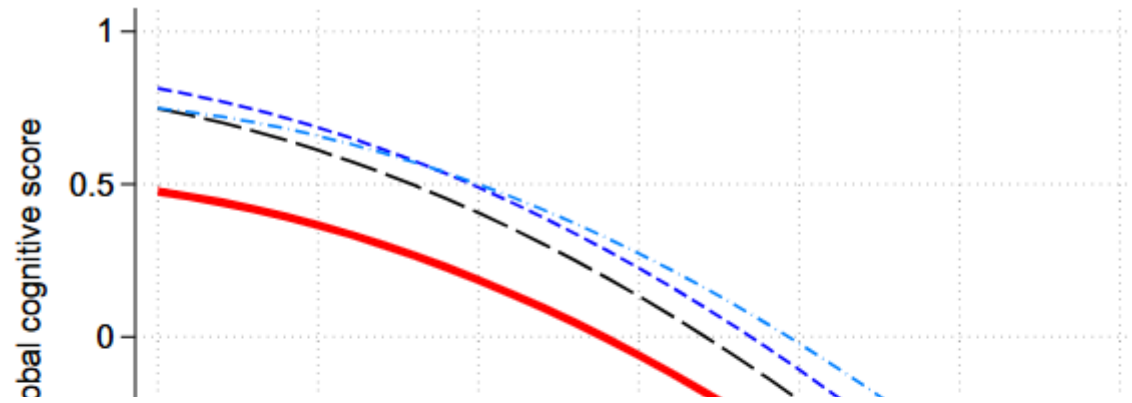
Take Home Message

Everything we can know about my grandfather...

...we can also know about any older American who has appeared in...

...any recent aging survey,
EHR record, and/or
administrative record

Scientific Uses?



The Flint, Michigan water crisis renewed concern about lead toxicity in drinking water. While lead in drinking water has been shown to negatively affect cognition among children, much less is known about its long-term consequences for late-life cognition. Using a nationally representative sample of U.S. older adults linked to historical administrative data from 1940, we find that **older adults who lived as children in cities with lead pipes and acidic or alkaline water—the conditions required for lead to leach into drinking water—had worse cognitive functioning but not steeper cognitive decline.** About a quarter of the association between lead and late-life cognition was accounted for by educational attainment. Within the next 10 years, American children exposed to high levels of lead during the 1970s will enter older ages. Our evidence highlights the need for stronger actions to identify interventions to mitigate long-term damage among people at high risk.

--- Lead pipes & neutral water -.-.- Nonlead pipes & acidic/alkaline water

Fig. 4. Trajectories of cognitive functioning by childhood lead exposure. Trajectories are calculated using estimates from model 1 in Table 2, HRS, 1998 to 2016 ($n = 7432$ person-wave observations).

Lee *et al.*, *Sci. Adv.* **8**, eabn5164 (2022) 9 November 2022

Long-Term Effects of Local-Area New Deal Work Relief in Childhood on Educational, Economic, and Health Outcomes Over the Life Course: Evidence From the Wisconsin Longitudinal Study

Sepideh Modrek, Evan Roberts, John Robert Warren, and David Rehkopf

ABSTRACT The economic characteristics of one's childhood neighborhood have been found to determine long-term well-being. Policies enacted during childhood may change neighborhood trajectories and thus impact long-term outcomes for children. We use individual-level data from the Wisconsin Longitudinal Study to examine the enduring consequences of childhood exposure to local-area New Deal emergency employ-

ment. We find that children who grew up in areas with moderate work-relief activity in 1940 had higher adult IQ scores, had higher class rank, and were more likely to obtain at least a bachelor's degree. We find enduring benefits for midlife income and late-life cognition for males who grew up in areas with a moderate amount of work relief. We find mixed results for males who grew up in the most disadvantaged areas

outcomes as those in the most advantaged districts with the lowest work-relief activity but had higher adult smoking rates. Our findings provide some of the first evidence of the long-term consequences of New Deal policies on children's long-term life course outcomes.

KEYWORDS Childhood neighborhood • Cognition • Socioeconomic status • Health behaviors • Mortality

Introduction

Over the last several decades, the relationship between childhood circumstances and educational attainment, economic well-being, and health over the life course has been established across economics, demography, epidemiology (Almond et al. 2018; Campbell et al. 2014; Hayward and Gorman 2004), and other fields. Furthermore, studies have documented positive long-term consequences for children whose households benefited from social safety net programs, such as the Earned Income Tax Credit (EITC) (Chetty and Friedman 2011), supplemental nutrition programs

ELECTRONIC SUPPLEMENTARY MATERIAL The online version of this article (<https://doi.org/10.1215/00703370-10111856>) contains supplementary material.

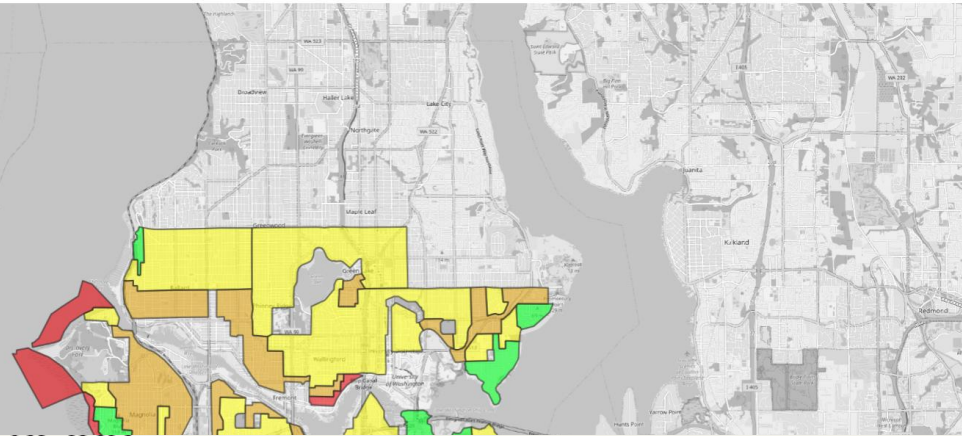
Downloaded from <http://read.dukeupress.edu>

31/02/2025 01:48:00 modrek.pdf by guest on 12 May 2025

Home Owners' Loan Corp. (HOLC) Neighborhood Redlining Grade in Seattle, Washington

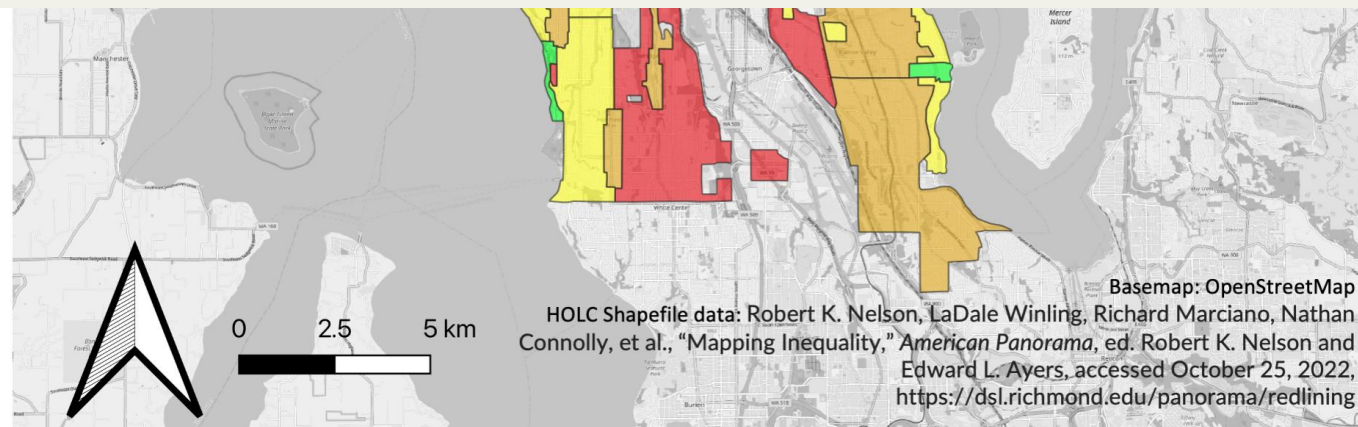
HOLC Grades

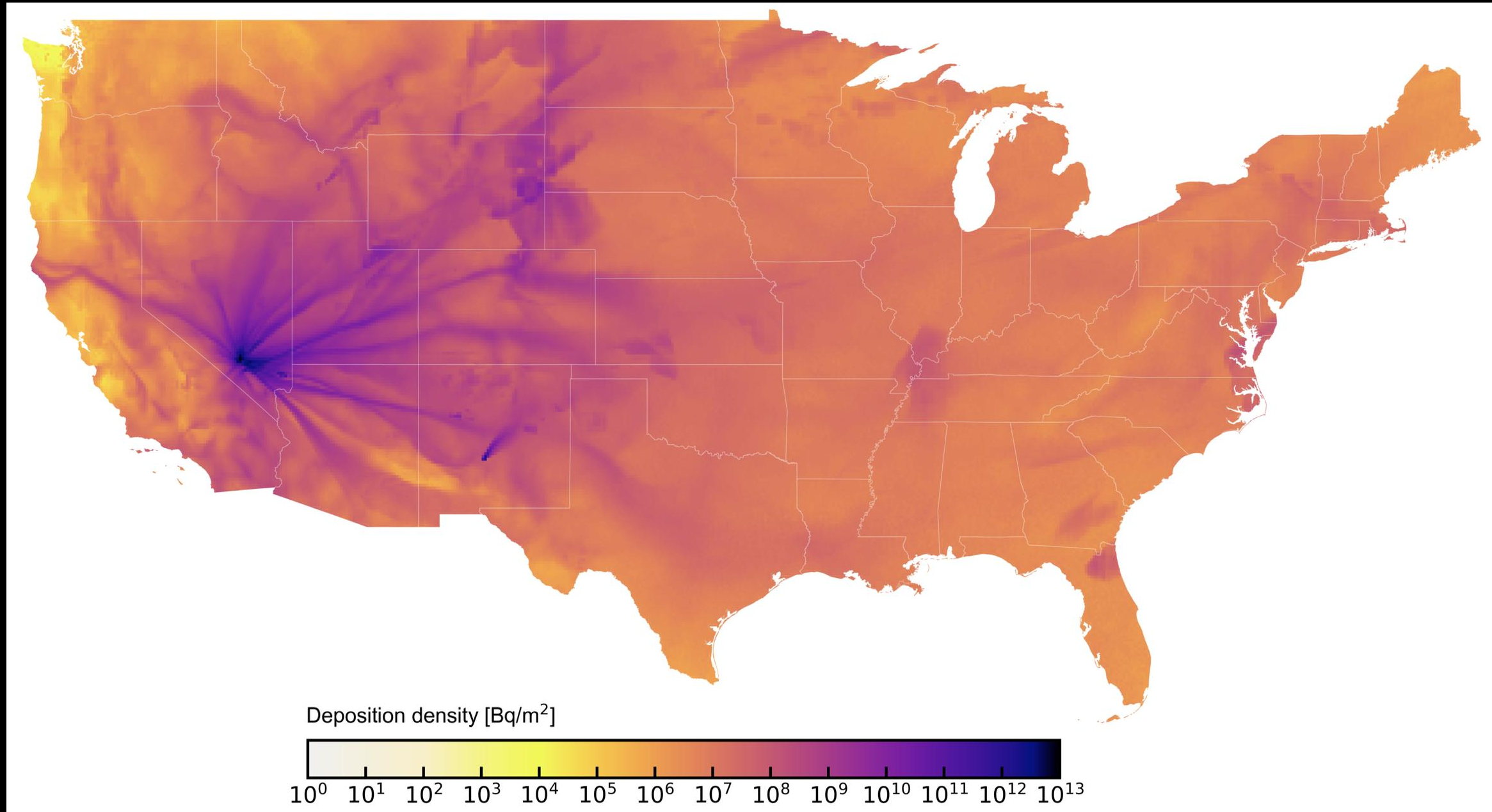
- A - "Best"
- B - "Still Desirable"



each 1-unit decrease of the HOLC grade.

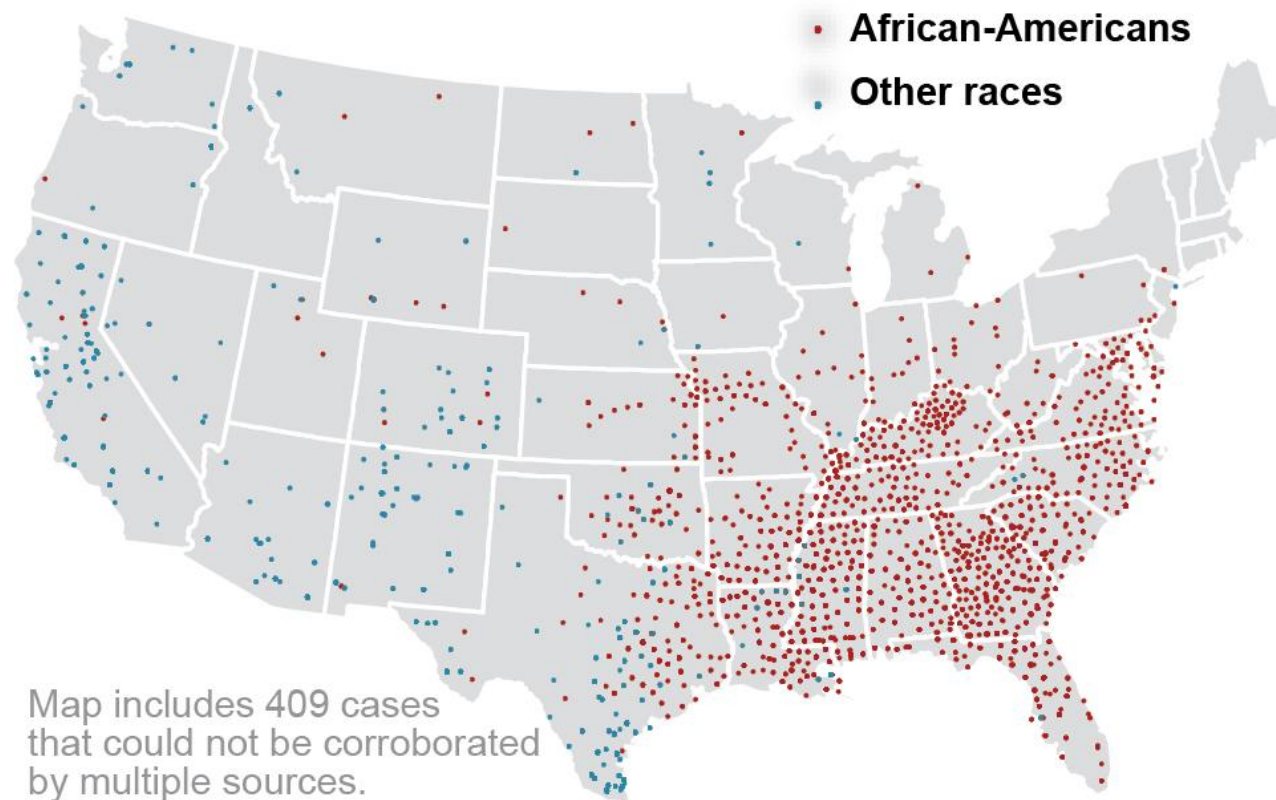
CONCLUSION This study found that individuals who resided within redlined neighborhoods in 1940 had lower life expectancy later in life than individuals who resided within other HOLC-graded areas.





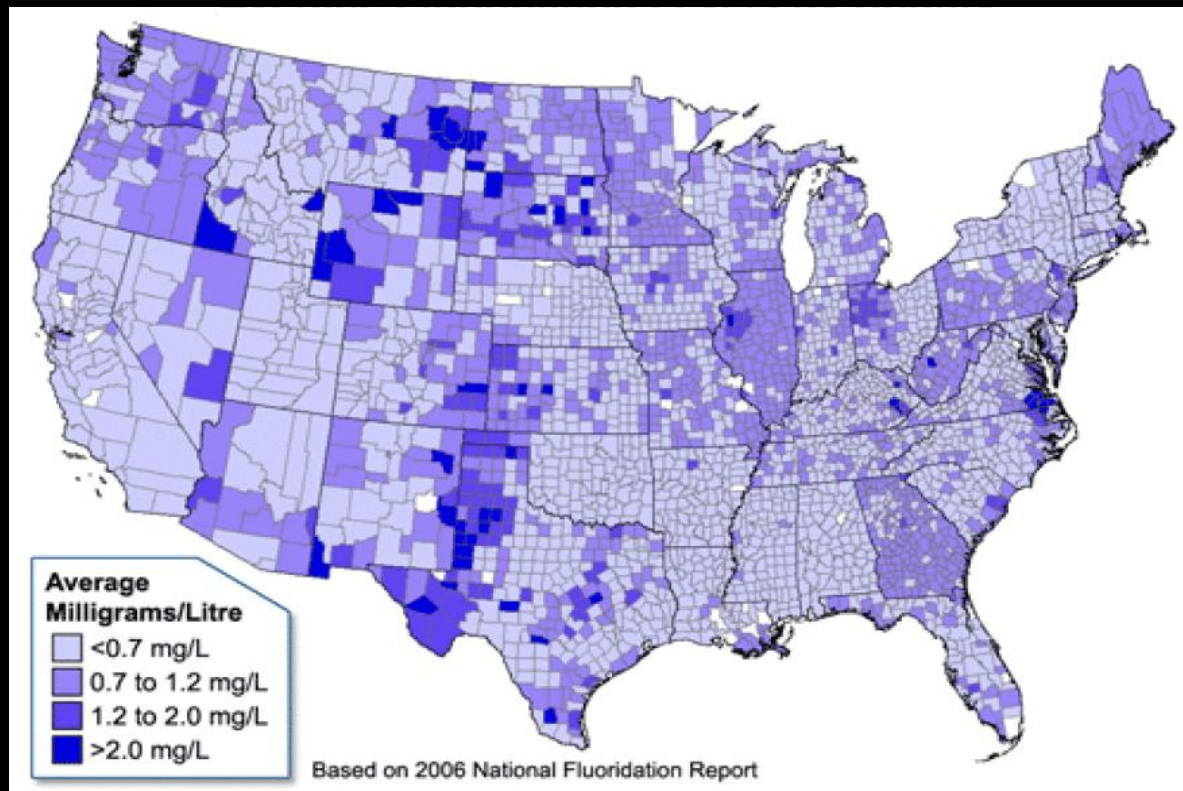
5,000-plus known lynchings

Each dot locates a county where a victim was killed by mobs, 1835 to 1964. Some dots represent multiple victims. For example, Phillips County, Arkansas reports over 200 lynchings.

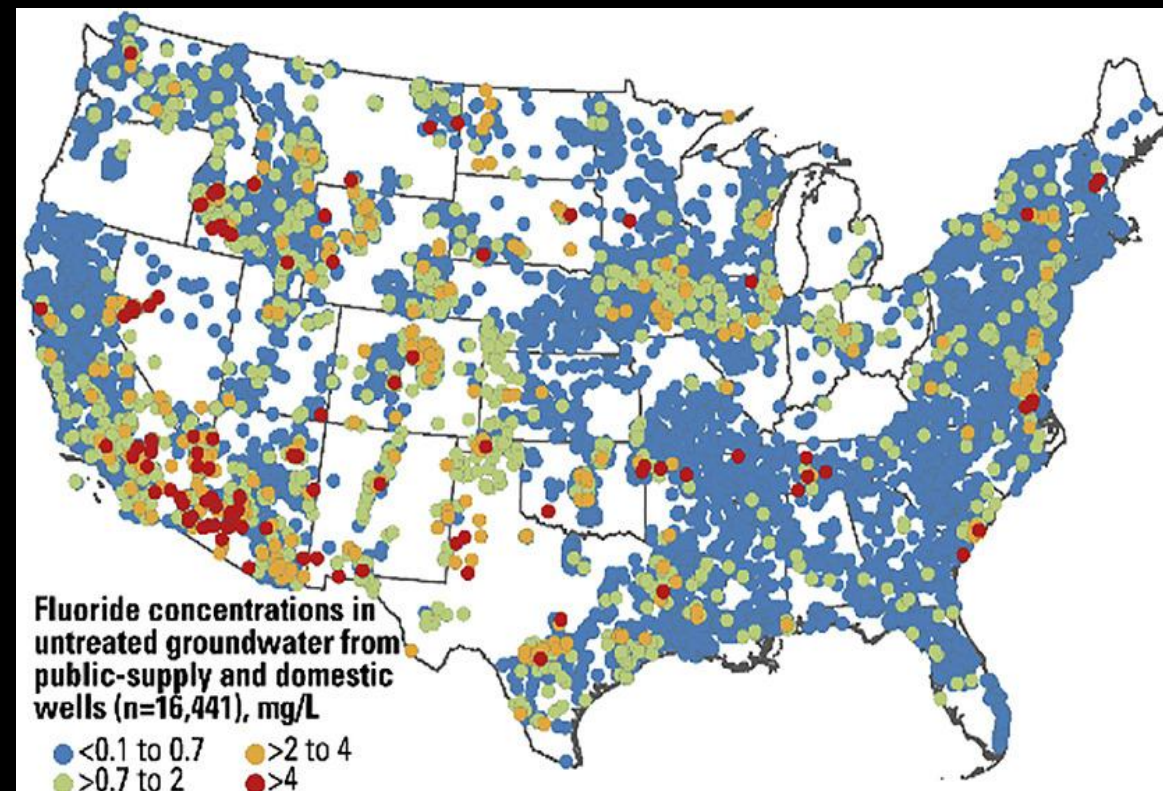


SOURCES: Tuskegee University Archives Repository; Auut Studio ; www.monroeworktoday.org

AP



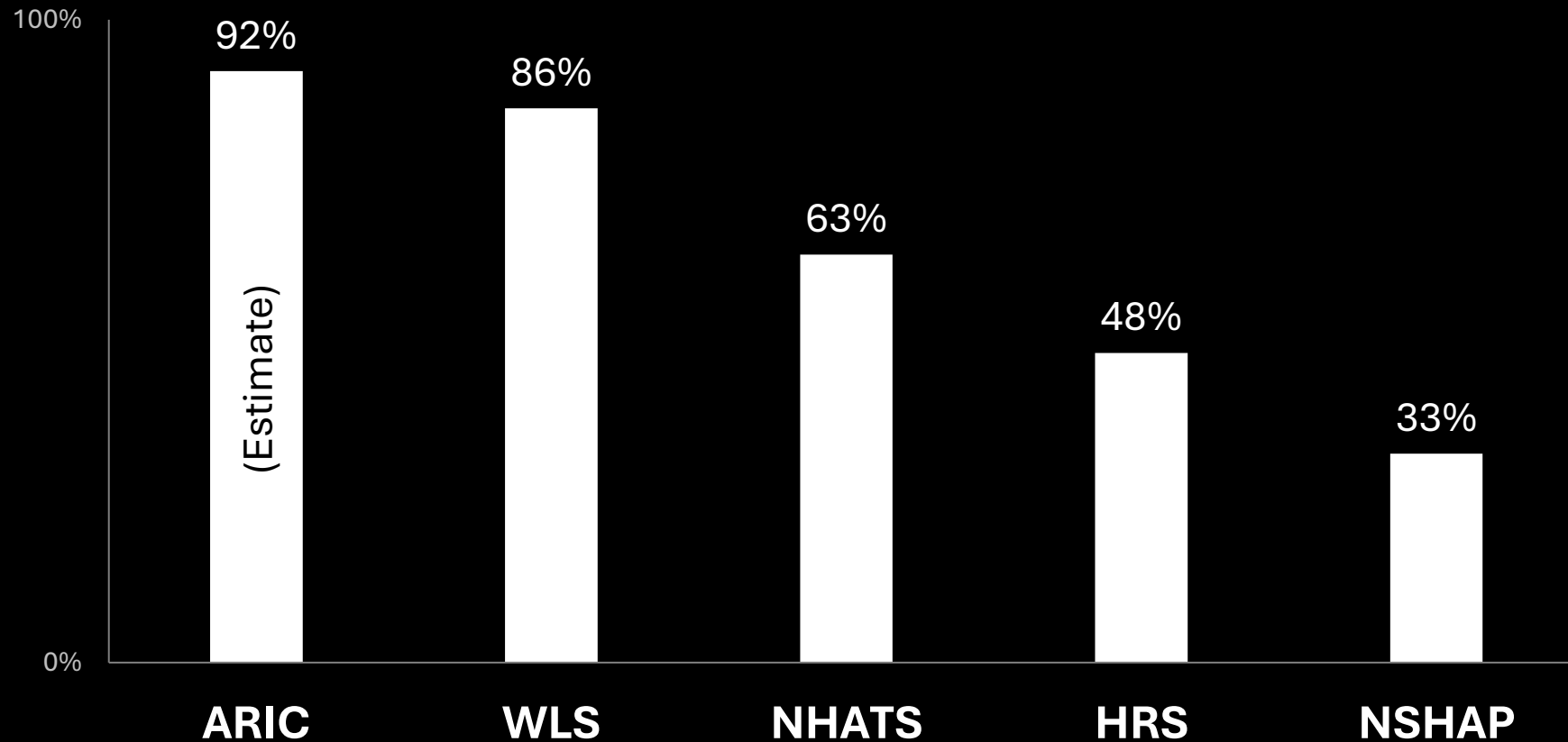
Fluoride from Municipal Water Systems



Fluoride from Untreated Drinking Water

How many people can be linked?

Linkage Rates (to 1940) as of 2020



Why Do Linking Rates Vary?

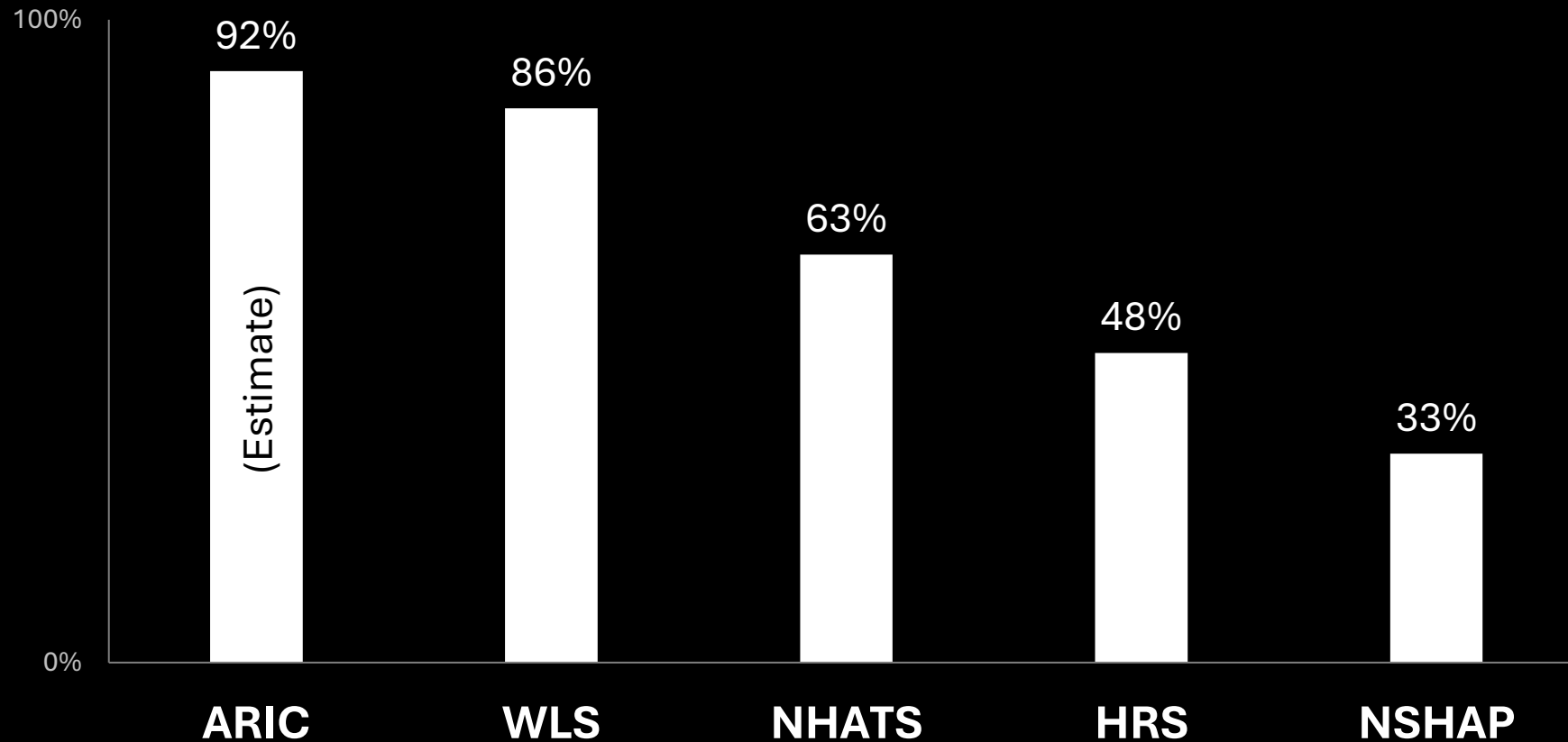
Availability and quality of names

Availability of geographic measures

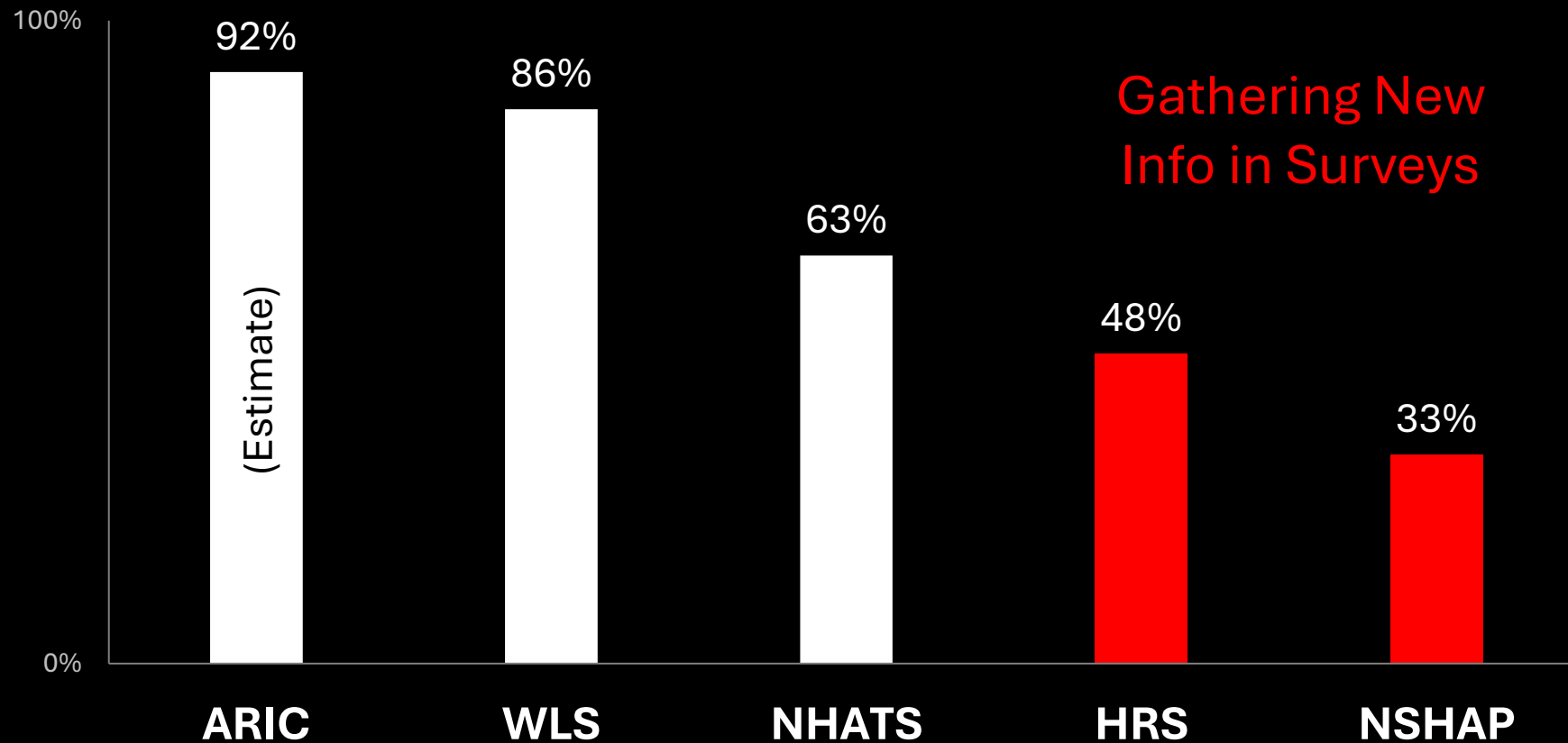
Availability of “tie breaking” information

Linking method (e.g., Ancestry.com)

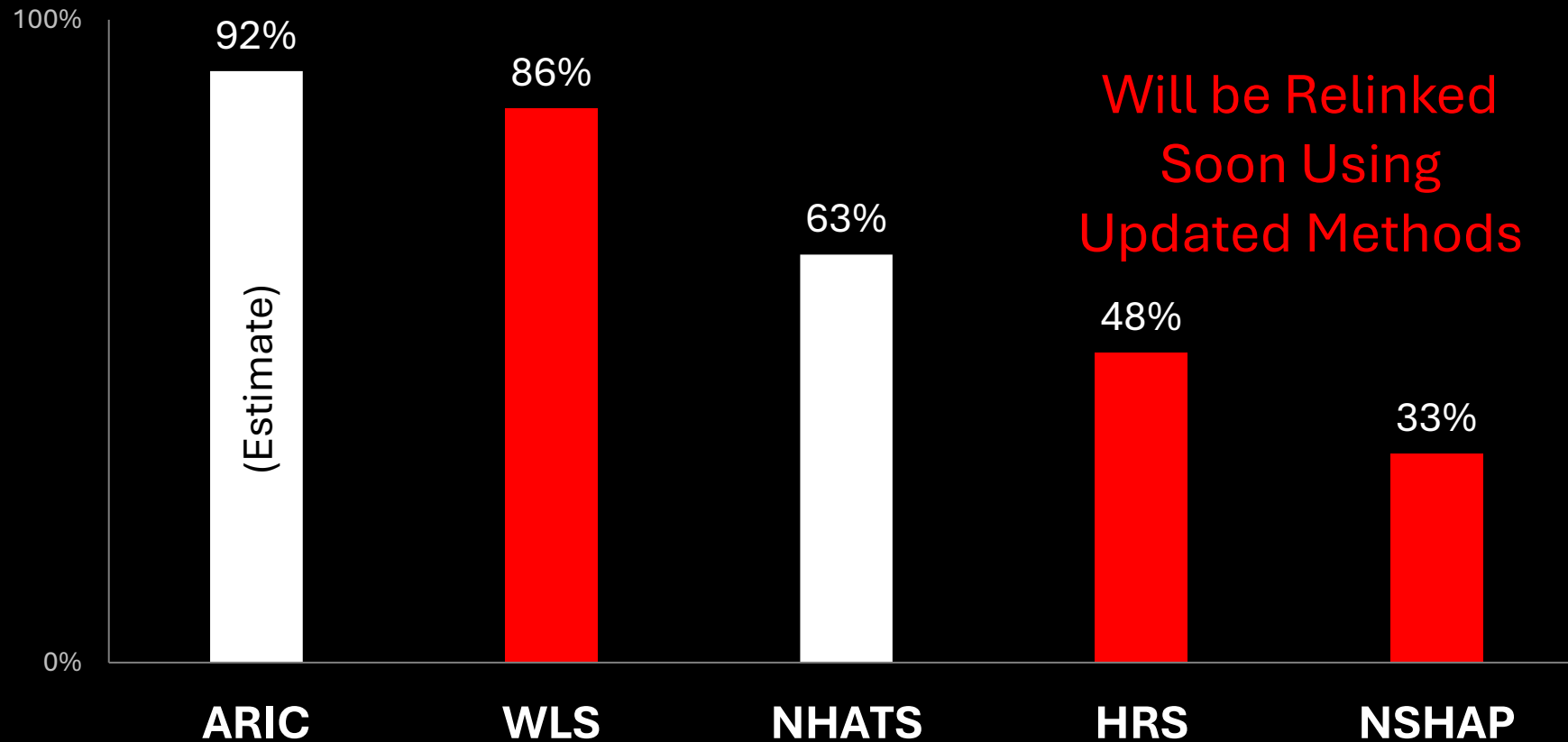
Linkage Rates (to 1940) as of 2020



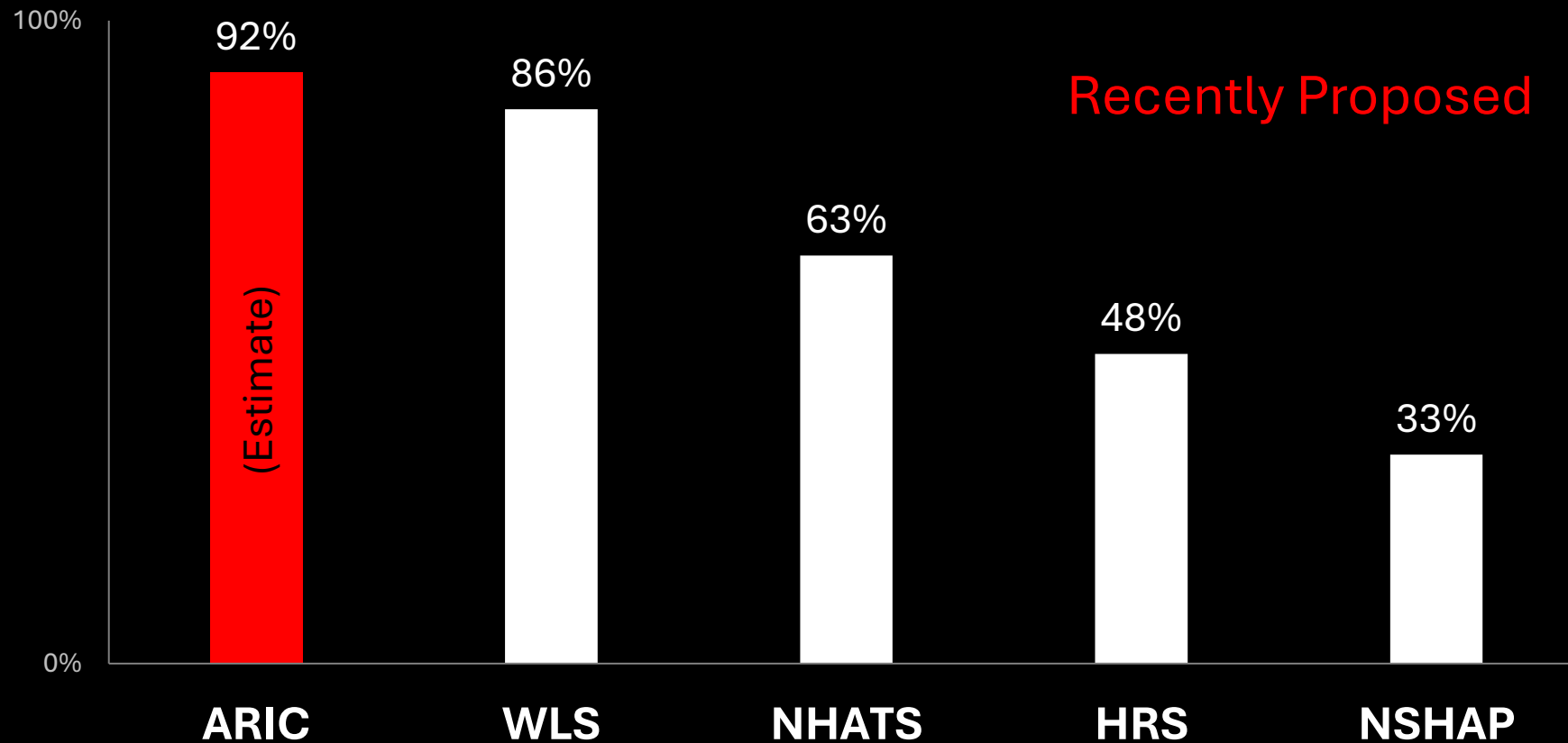
Linkage Rates (to 1940) as of 2020



Linkage Rates (to 1940) as of 2020



Linkage Rates (to 1940) as of 2020



ACT records will soon be linked to IPUMS-MLP

Thank you

- MLP receives support from NIA (R01AG057679)
- The U. of Minnesota Life Course Center receives support from NIA (P30AG066613)
- The U. of Minnesota Population Center receives support from NICHD (P2CHD041023)

ipums.org