

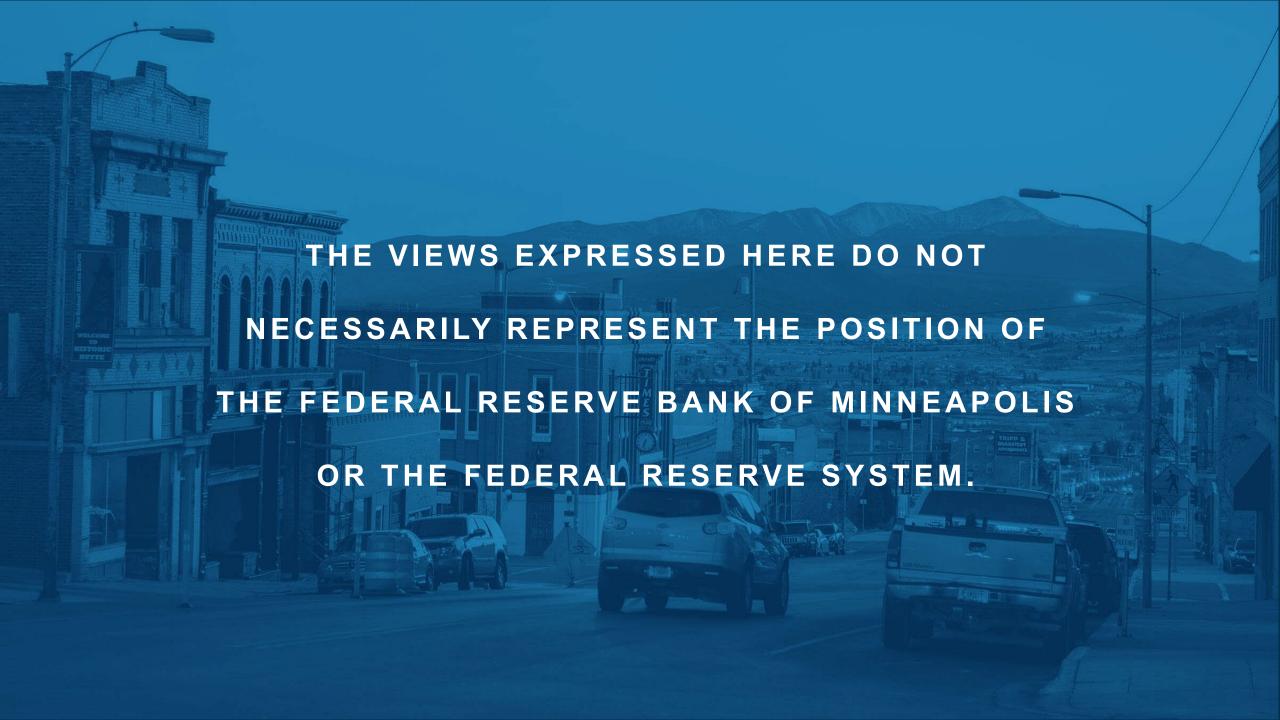
DIGITAL EQUITY GAPS IN NATIVE AMERICAN COMMUNITIES?

An Exploration of the Affordable Connectivity Program Data

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Roadmap

- Tribal Broadband 101 & The Affordable Connectivity Program
- Data & Definitions
- Preliminary Results

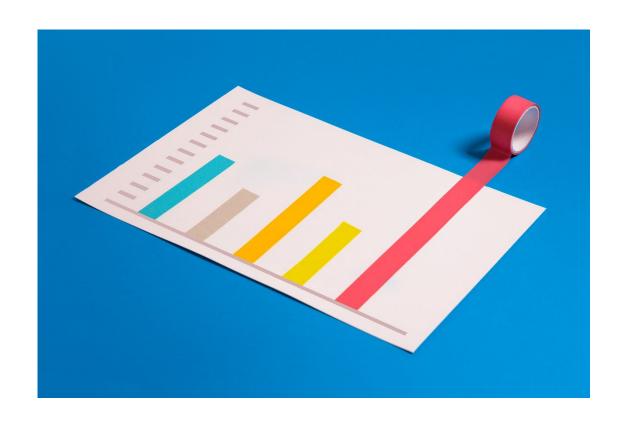
TRIBAL BROADBAND 101 - PRE-PANDEMIC

18 percent of people on Tribal lands did not have broadband Internet access¹

30 percent of people on rural Tribal lands did not have broadband Internet access¹

33 percent of people on rural tribal lands did not have home Internet service²

• 21 percentage points higher than households on rural, neighboring non-Tribal lands²





^{2.} ACS 2015-2019 Data; Bauer, Feir, & Gregg (2022)



THE AFFORDABLE CONNECTIVITY PROGRAM

Monthly Subsidy for Residential Internet Service

\$30 Non-Tribal Lands

\$75 Tribal Lands





INTERVIEWS & FOCUS GROUPS WITH TRIBAL DIGITAL NAVIGATORS AND TRIBAL INTERNET SERVICE PROVIDERS

Tribal IDs

- Enrollment in Tribal Programs
- Boundaries of Tribal Lands

 Ability for ISPs to participate in the program





WHAT DOES TAKE-UP LOOK LIKE ON TRIBAL LANDS?





DATA SOURCES



USAC Data

- Updated Monthly
- Subscribers (Households) at the Zip Code level
- Does not distinguish between subscribers on tribal lands and those not on tribal lands

Census Bureau Data

- Population (ACS)
- Families' Income Ratio to Poverty Line (ACS)
- Tiger/Line Shapefiles
- PUMS State Level



ESTIMATING PARTICIPATION IN THE AFFORDABLE CONNECTIVITY PROGRAM

Families at 200% Poverty level

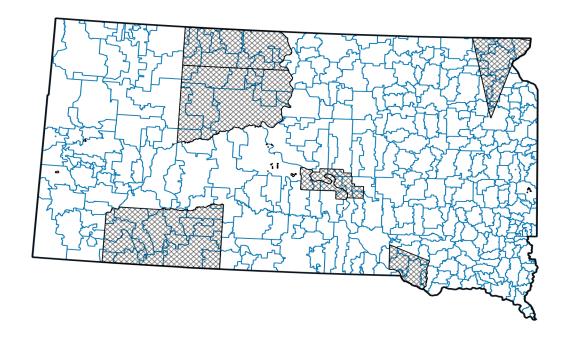
Galperin (2021) State Adjustment Factors

- Qualifying Programs.
 - SNAP
 - Medicaid
 - TANF
 - SSI
 - Lifeline
 - Tribal Head Start
 - And More!





DEFINITIONS



Tribal Zip Codes

- The intersection of American Indian Areas and ZCTAs
- Percentage of overlap (Exploring different definitions, 25%, 50%, 75%)

Neighboring Non-Tribal Zip Codes

Distance from centroid of tribal zip code to centroid of neighboring non-tribal zip code (Exploring different definitions)

Like Zip Codes

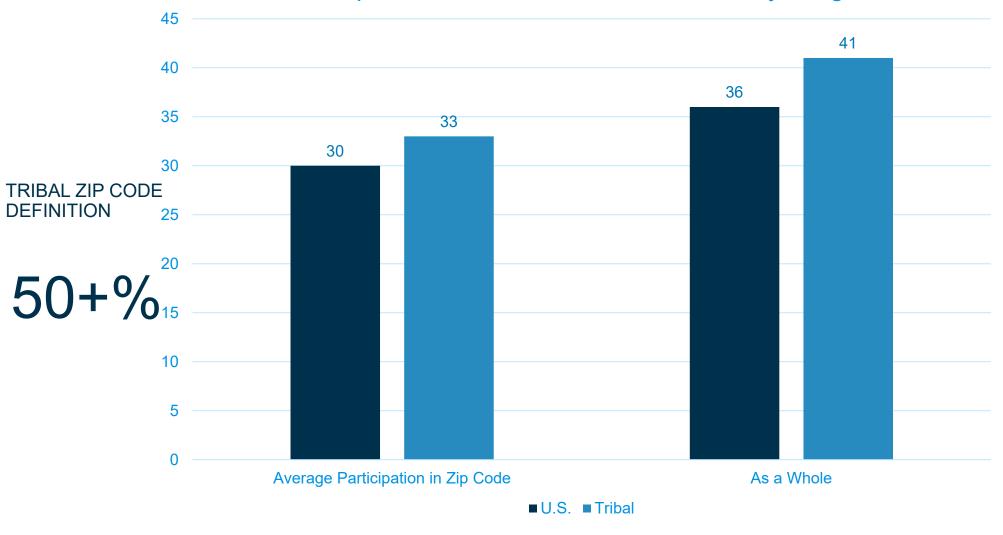
- Comparing similar zip codes between tribal and non-tribal
 - Similarities: population density, percentage in poverty, percentage qualifying for ACP





U.S. VERSUS TRIBAL ZIP CODE PARTICIPATION

: Participation in the Affordable Connectivity Program





TRIBAL – NEIGHBORING NON-TRIBAL ZIP CODES

TABLE: PARTICIPATION IN THE AFFORDABLE CONNECTIVITY PROGRAM

TRIBAL ZIP CODE DEFINITION

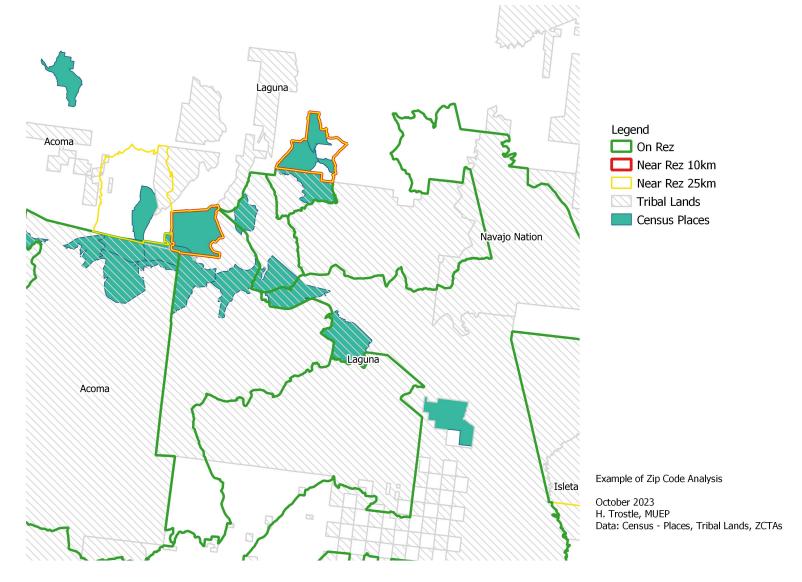
50+%

Distance	All		No OTSA		No OTSA, No Navajo	
	Tribal	Near	Tribal	Near	Tribal	Near
10km*	32.30	40.43	30.88	40.78	32.30	40.43
25km	32.30	30.07	30.88	31.17	32.30	30.07





Exploring Tribal Zip Codes and Neighboring Non-Tribal Zip Codes





COMPARING LIKE ZIP CODES

Accounting for:

- Population density
- Share of households without Internet (pre-pandemic)
- Per capita income
- Number of households
- Population of zip
- Share of white population

Take-Up is Higher in Tribal Zip Codes than comparable non-Tribal Zip Codes



POTENTIAL EXPLANATIONS OF FINDINGS



Border Towns

 Similarities between Tribal Lands and Neighboring Rural Areas

Tribal ACP Outreach

 The Larger Financial Incentive (\$75 instead of \$30 monthly)



TAKE-AWAYS

There is a substantial gap in participation of the ACP between nearby neighboring non-tribal zip codes and tribal zip codes.

Tribal zip codes have more participation in the ACP than comparable non-tribal zip codes.

Participation on tribal lands is higher than the U.S. average.





THE AFFORDABLE CONNECTIVITY PROGRAM STILL DOES NOT REACH EVEN 50% OF ELIGIBLE HOUSEHOLDS



THESE ARE PRELIMINARY RESULTS. FINAL RESULTS SUBJECT TO CHANGE.



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THANK YOU