

Food Access Exploration

By August Majtenyi

Side Project 2025

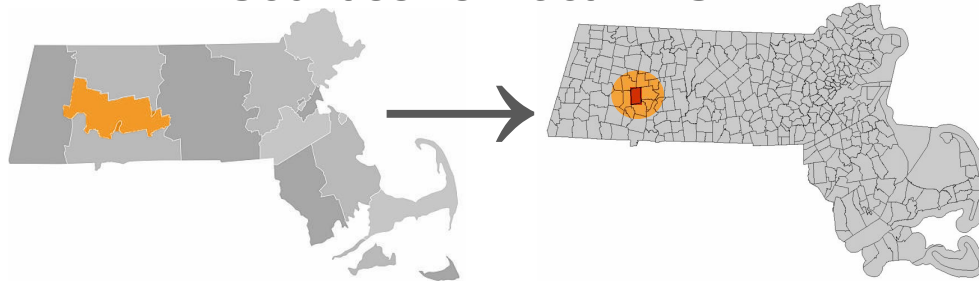
Agenda

- Data Used
- Identifying High Need Counties
- Phoenix, Arizona Health Concerns
- Pitching a Food Assistance Program near Maryvale HS
- Potential Next Steps

Data Used

	Information	Geography
<u>FDA Food Atlas</u>	<ul style="list-style-type: none">• Food Access• Split by Demographics• 2010 - 2015	County-wide for the entire US
<u>CDC 500 Cities</u>	<ul style="list-style-type: none">• 28 Health-related metrics• 95% confidence intervals• 2010	Tract FIPS for 500 cities

Counties vs Tract FIPS



Identify High-Need counties → then locate highest need districts

Identifying High Need Counties

Notable Variables:

- Low income & low access to store, 2015
- Households, no car & low access to store, 2015
- SNAP households, low access to store, 2015
- Children and Seniors, low access to store, 2015

Are these best represented as a population or percentage?



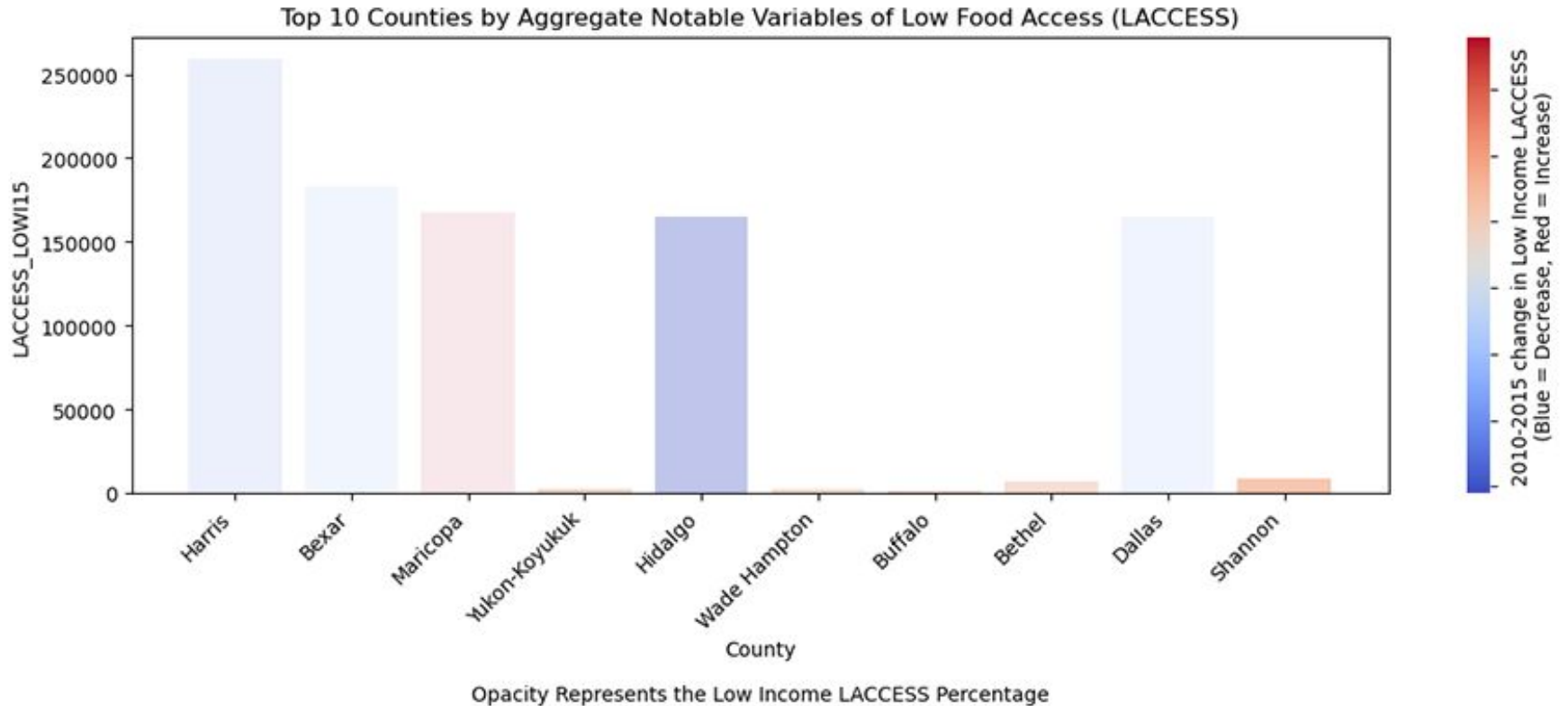
Identifying High Need Counties

Notable Variables: Standardized → Aggregated → Sorted

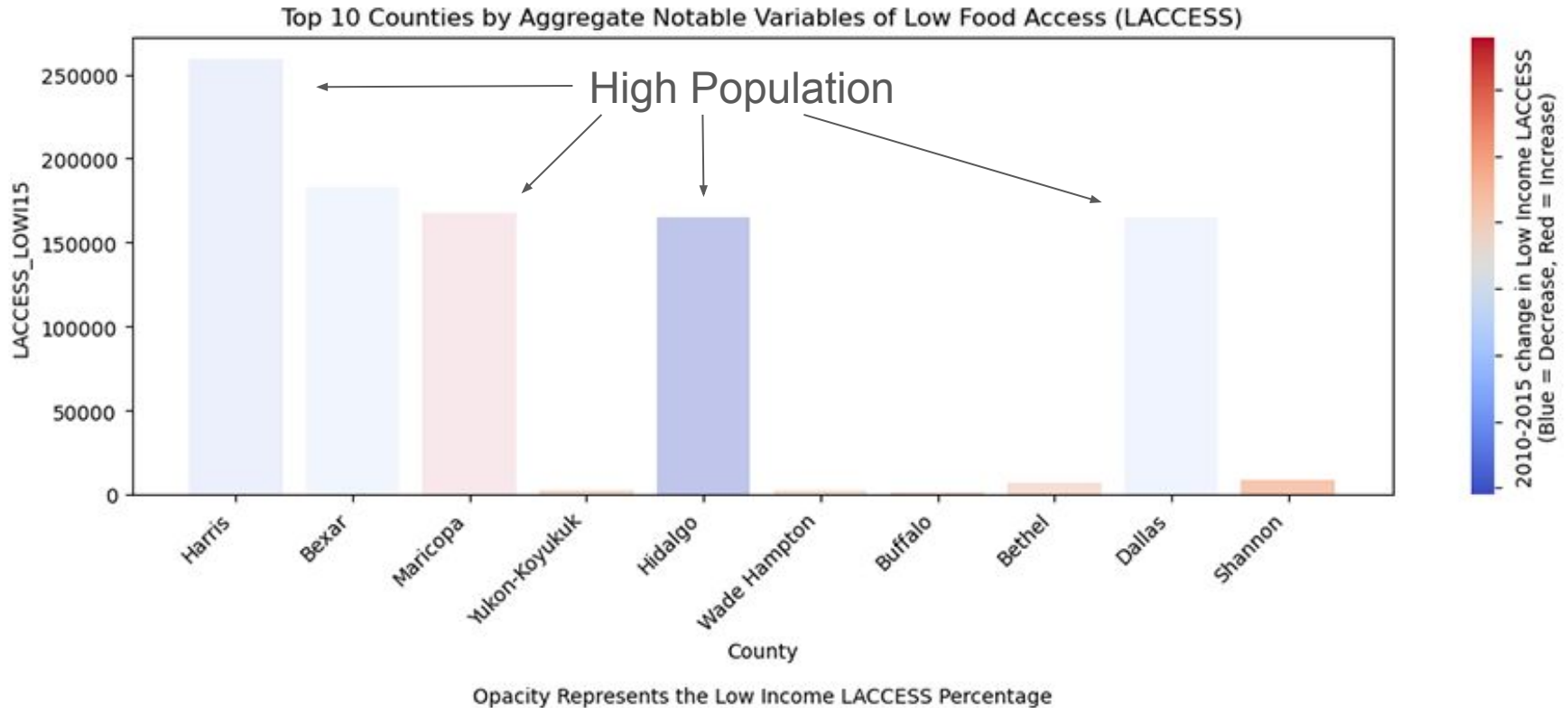
High Need Counties fell into 2 categories:

	County	Low Income/Low Access Population	Low Income/Low Access Percentage
High Population	Harris, Texas	260,000	6%
High Percentages	Shannon, SD	8,000	60%

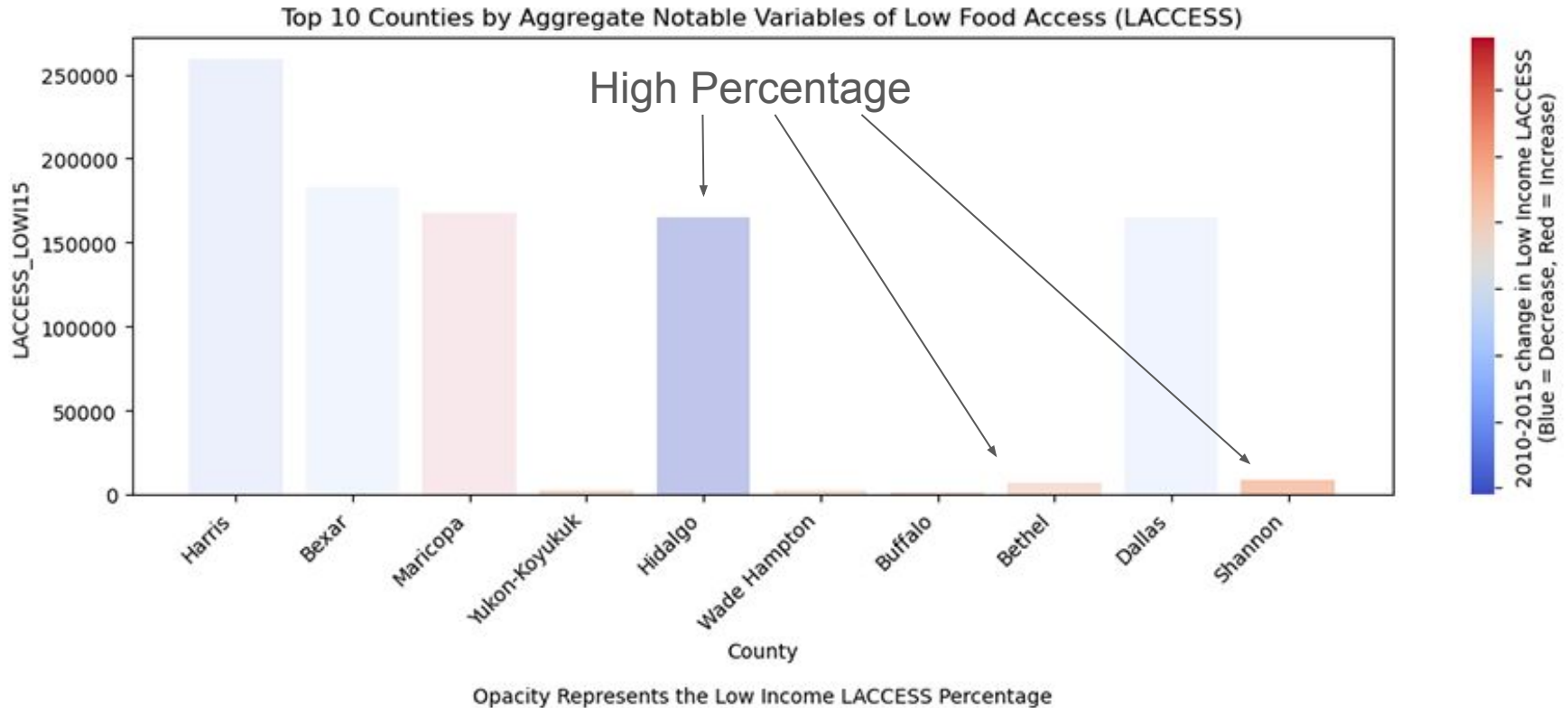
Identifying High Need Counties



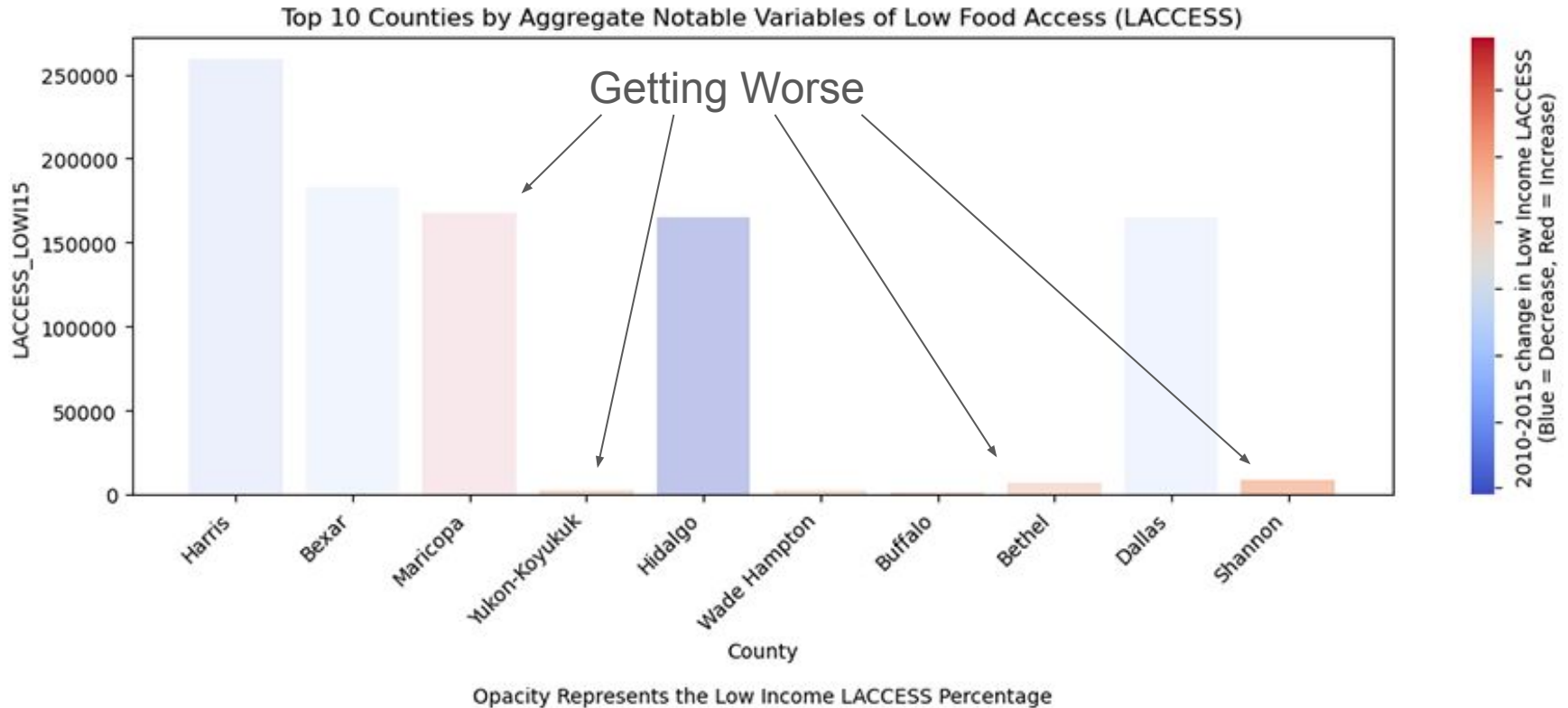
Identifying High Need Counties



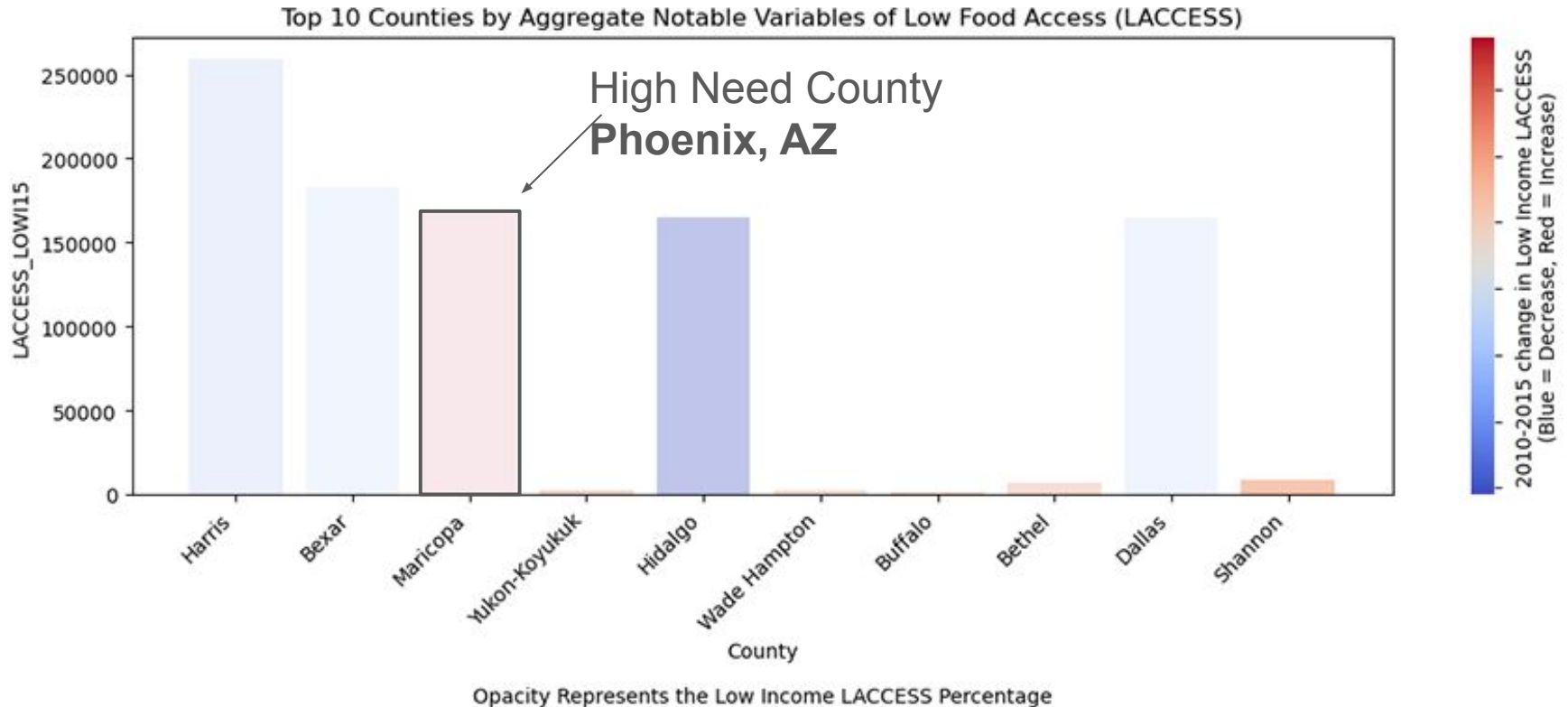
Identifying High Need Counties



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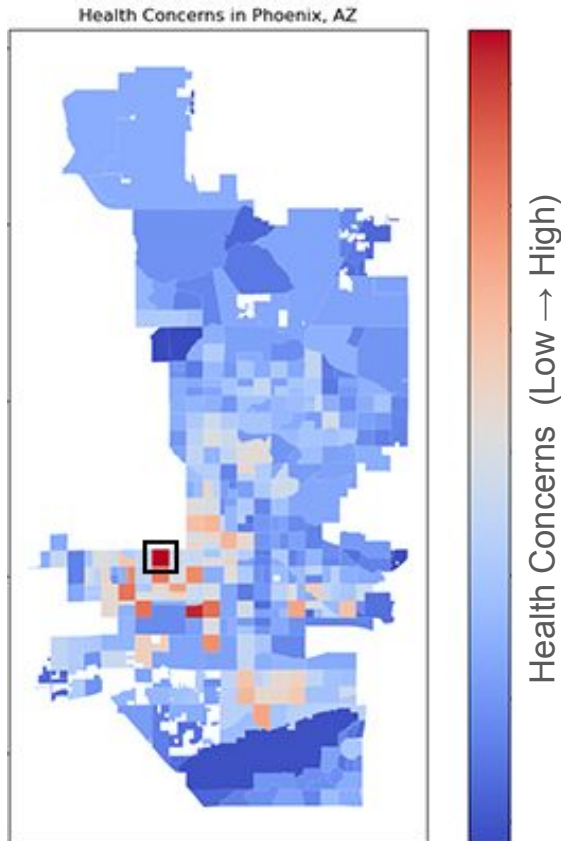
Phoenix, Arizona Health Concerns

Food Access is a Social Determinant of Health:

- 20 variables selected
 - Lacking Health insurance
 - Obesity
 - High Blood Pressure
 - Mental Health
 - High Cholesterol
 - Not going to Check-Ups
 - Teeth Loss
 - etc...



Phoenix, Arizona Health Concerns

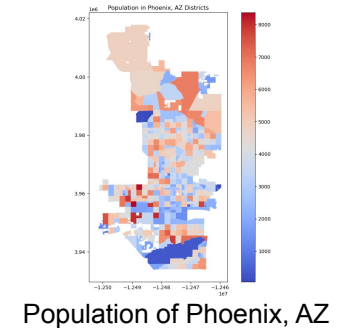


Health Variables were standardized and aggregated to create a single 'Health Concerns' score

- Ranges from 0 to 1
- Considers Population

Validating the Findings

- Maryvale HS has 2,400 economically disadvantaged students
- 72% graduation rate
- 98% minority students



Pitching a Food Assistance Program near Maryvale HS

- Work with St. Mary's Food Bank and Maryvale HS for outreach
 - Potentially help 3,000 people
- Subgroups supported
 - >70% hispanic households
- Realistic goal
 - Support 450 households (2,000 people) Monthly

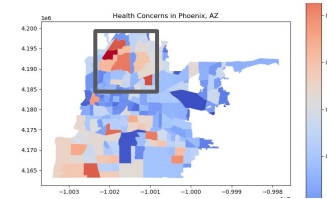
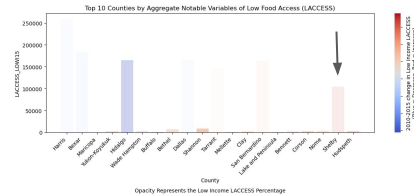


Potential Next Steps

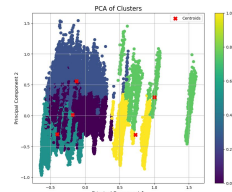
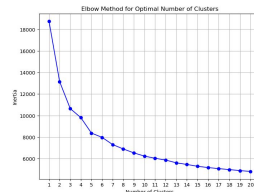
Talk to Stakeholders near Maryvale HS

- How many households are currently being supported with food programs?
- What are the largest contributors to the poor health in this area?
- In what way can these difficulties be helped?

Find areas that don't currently have nearby food banks



Use a different method for categorizing high-need food access locations



Calculating Impact Numbers

1. Where should we deploy a food access program?

- Maricopa, Arizona in the Maryvale School District (Tract FIPS 4013109400)

2. How many people will be included? How many might be successfully engaged?

- 8,000 individuals in the district
 - 3,000 Individuals lacking health insurance
- 2,400 economically disadvantaged students in Maryvale HS
- Food pantries are in the area (Phoenix Food Bank community Relations)

3. Which subgroup of the population might benefit the most from the program?

- 20% of low food access students in Maricopa, AZ are hispanic
 - Second largest demographic after caucasian (54%)
- 98% of Maryvale HS are minority students
- 64% of Minorities in Maricopa lacking food access are hispanic

4. What is the projected impact of this program?

- 36% in this district don't have health insurance