



**Smart Growth America**  
Improving lives by improving communities



**National Complete  
Streets Coalition**

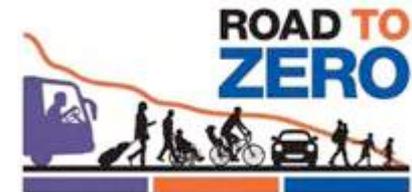
# Creating safer streets with demonstration projects



The webinar will begin at 2:00PM ET

# Safe Streets, Smart Cities Academy

- Technical assistance program funded by Safe System Innovation Grant from Road to Zero
- Competitive application process to choose three jurisdictions
  - City of Durham, NC
  - City of Huntsville, AL
  - City of Pittsburgh, PA



# Safe Streets, Smart Cities Academy

- Series of three workshops and six distance learning modules
  - Proven safety countermeasures
  - Creative placemaking
  - Community engagement
- Peer-learning model with interactive exercises
- **Practical component:** plan and implement a safety demonstration project

# Today's webinar



## Safety Demonstration Projects

Case studies from Durham, NC, Huntsville, AL, and Pittsburgh, PA



**Anne Phillips**  
**Leslie Tracey**  
Durham, NC

**Paige Colburn**  
**Clint Johns**  
Huntsville, AL

**Kristin Saunders**  
**Katy Sawyer**  
Pittsburgh, PA

**Q&A**  
Type your questions in  
the chat box





Durham, NC demonstration project

# West Club Boulevard



CITY OF  
**DURHAM**

# Safe Streets, Smart Cities Academy

Project Story | May 2019



Bicyclist and pedestrian crashes that between 2007 and 2015

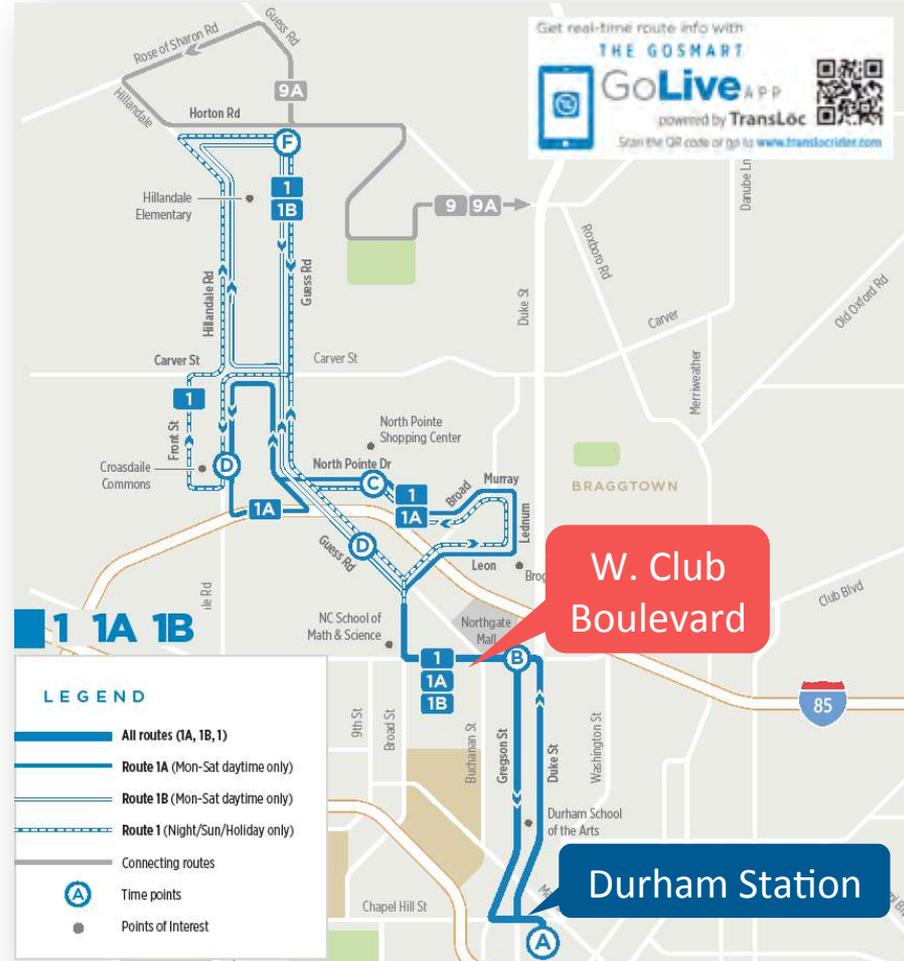


# Bike/Ped Crash Data

 = Bicycle  
 = Pedestrian

# High Bus Stop Use

- Rated in the Top 20 used with 150 weekday boardings
- GoDurham Rider Demographics:
  - 68% African American
  - 63% have no car
  - 75% make less than \$25,000



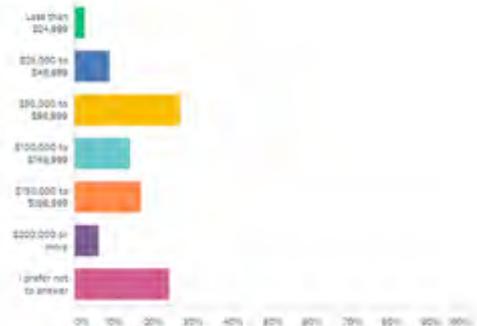
# Engagement Activities

- Online Survey (4 weeks): 126
- Six intercept surveys, 46 conversations & 84 crossing observation
- Trinity Park Neighborhood Association Meeting: 32
- Northgate Children's Festival : 76
- NIS sent emails to contacts in Walltown
  - Survey link
  - Asking if there were events that we should attend (no response)
- Second Online Survey: 241
- Second Round of Intercept Interviews: 46
- Artwork engagement (online and in-person): 348

# Online vs. Intercept Responses

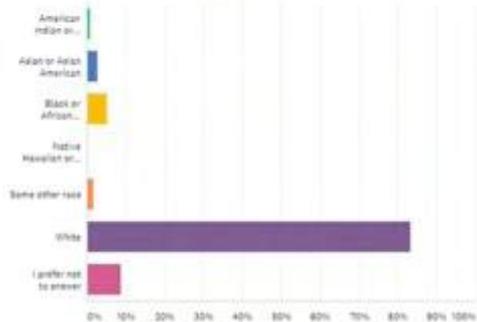
What is your annual household income?

Answered: 12 Skipped: 14



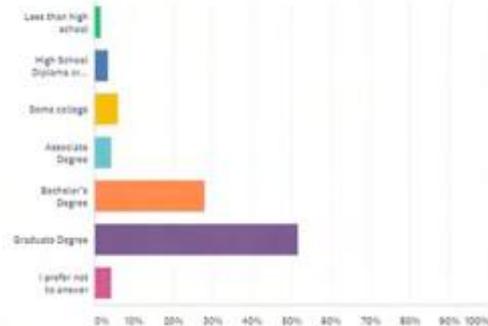
What is your race? Select any that may apply.

Answered: 14 Skipped: 12



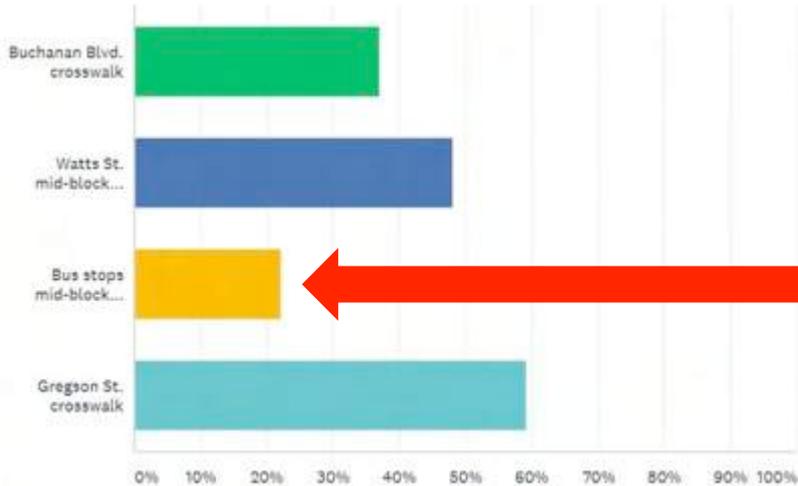
What is the highest level of education you have completed?

Answered: 14 Skipped: 12



	ALWAYS	OFTEN	SOMETIMES	RARELY	NEVER	TOTAL RESPONDENTS
Walk	1.98% 2	23.76% 24	29.70% 30	25.74% 26	18.81% 19	101
Bike	3.33% 3	11.11% 10	14.44% 13	18.89% 17	52.22% 47	90
Bus	5.88% 5	2.35% 2	4.71% 4	9.41% 8	77.65% 66	85
Drive	44.07% 52	44.07% 52	9.32% 11	1.69% 2	0.85% 1	118

# Survey vs. Crossing Observations



The least common crossing pattern reported in the survey is contradictory to the most commonly observed crossing patterns.

# Online Survey Results

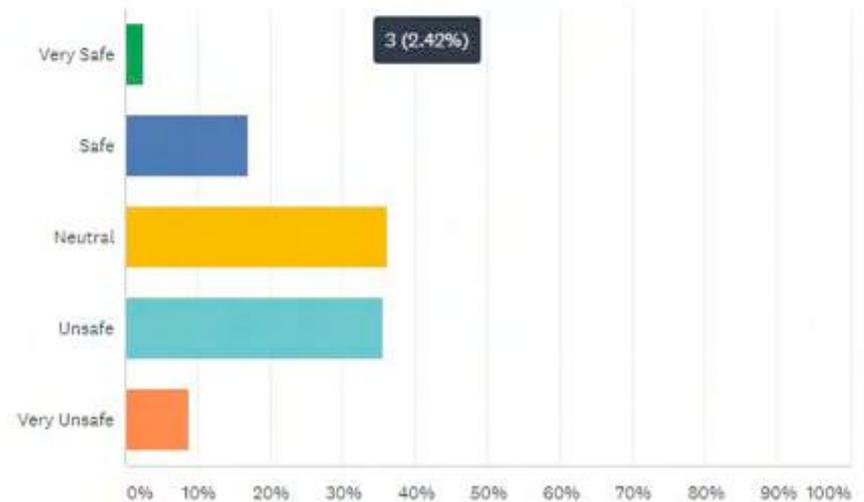
Most people recognized vulnerable user safety issues on this roadway section.

Design suggestion count:

- Crossing: 37
- Crossing with signal: 13
- Bike lane: 23
- Signal: 19
- Road diet: 16
- Speed management: 13
- Visibility/lighting: 4

How safe do you feel on West Club Blvd. between Gregson St. and Buchanan Blvd.?

Answered: 124 Skipped: 2



# Intercept Interviews

- Most people did not want to take the survey, but were willing to chat with us
- We developed a shorter comment form after realizing that most people did not want to take the survey
- Went out four times, spoke to 46 people, observed 84 crossings
- Questions asked:
  - How often do you come here?
  - What two things can we do to make this area safer for all roadway users?
  - Where do you normally cross?
  - Do cars yield for you when crossing?

# Intercept Takeaways

- The most common suggestion was to add a way for people to cross safely mid-block
- Many people expressed concern that a crosswalk might not be sufficient enough to encourage drivers to yield to pedestrians, and several suggested that a signal (referred to as a traffic light or some kind of light that pedestrians could push to cross)
- The second most common concern was speeding

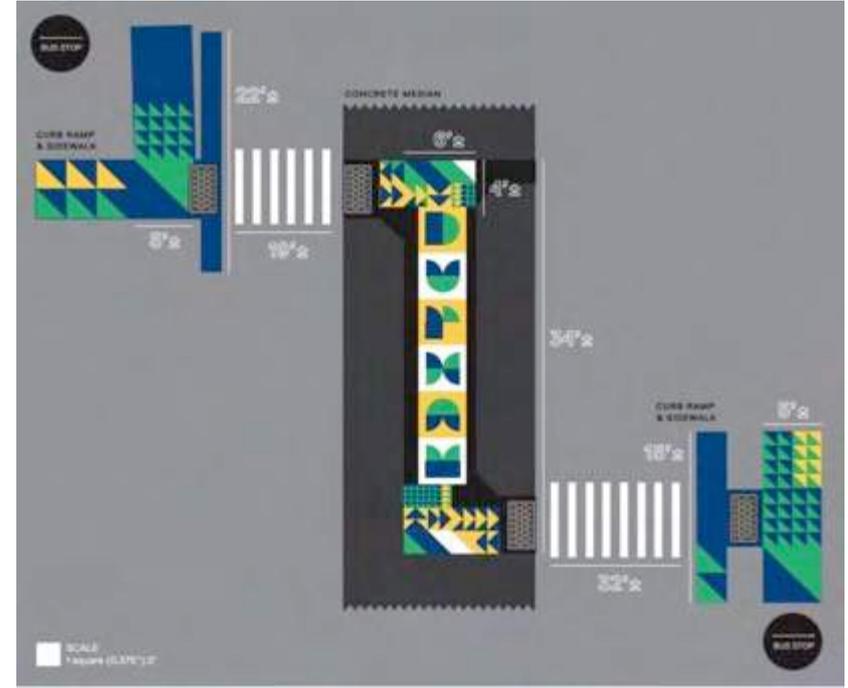


D crossing: most frequent (26)

C crossing: second most observed (13)

A crossing: third most observed (8)

# Art Concept by Madiha Malik



# Project Improvements



Temporary Road Diet  
(3 weeks)



Mid-block Crossing



Rectangular Rapid Flashing  
Beacon

# Project Results and Lessons Learned



73%

Of people surveyed near the project site said the project increased their feeling of safety



4mph

Reduction in the 85th percentile speed (EB)



0 - 24%

Increase in drivers yielding to pedestrians in the crosswalk



4 second

Reduction in pedestrian delay to cross the street\*\*

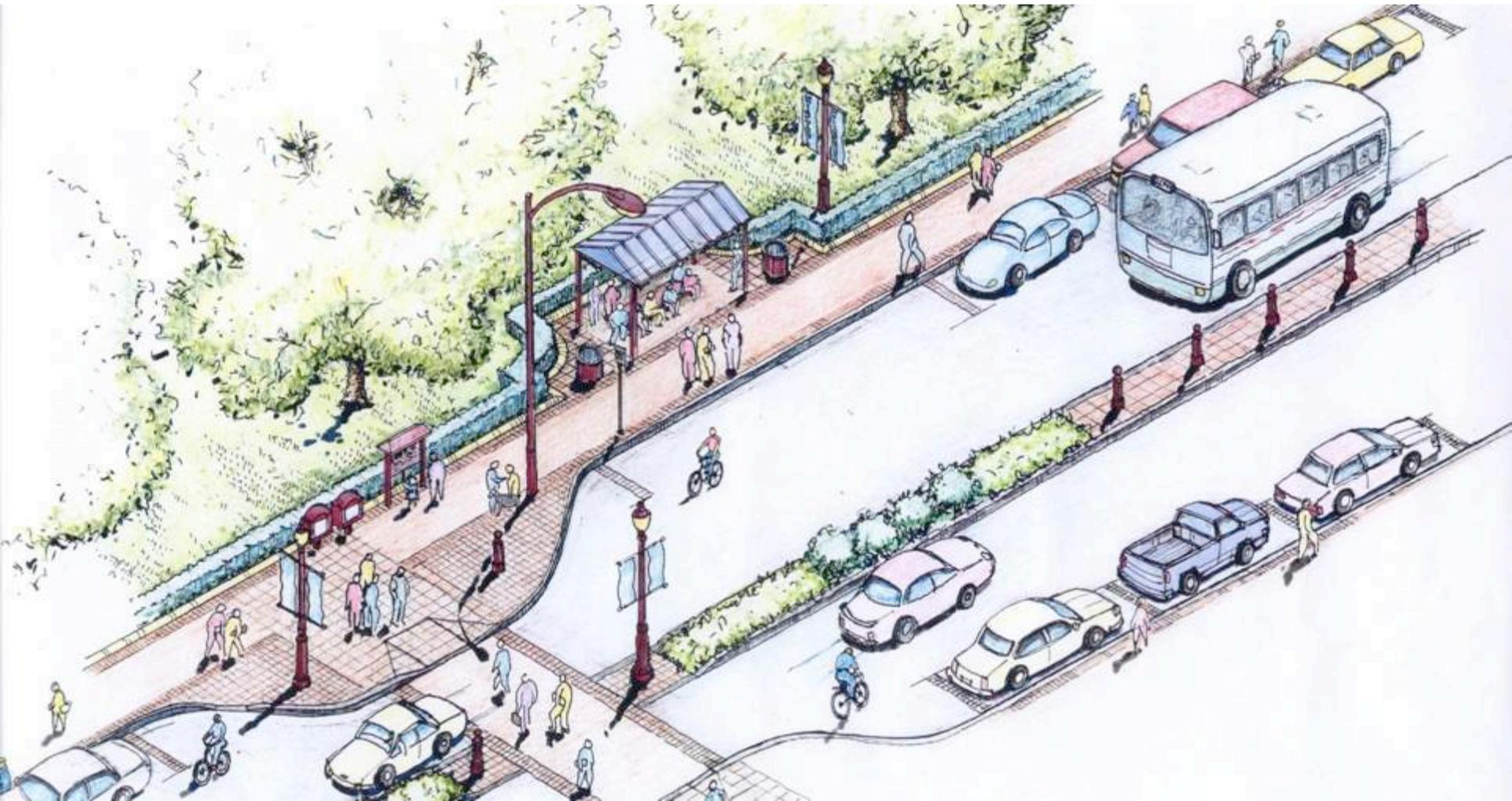


Huntsville, AL demonstration project

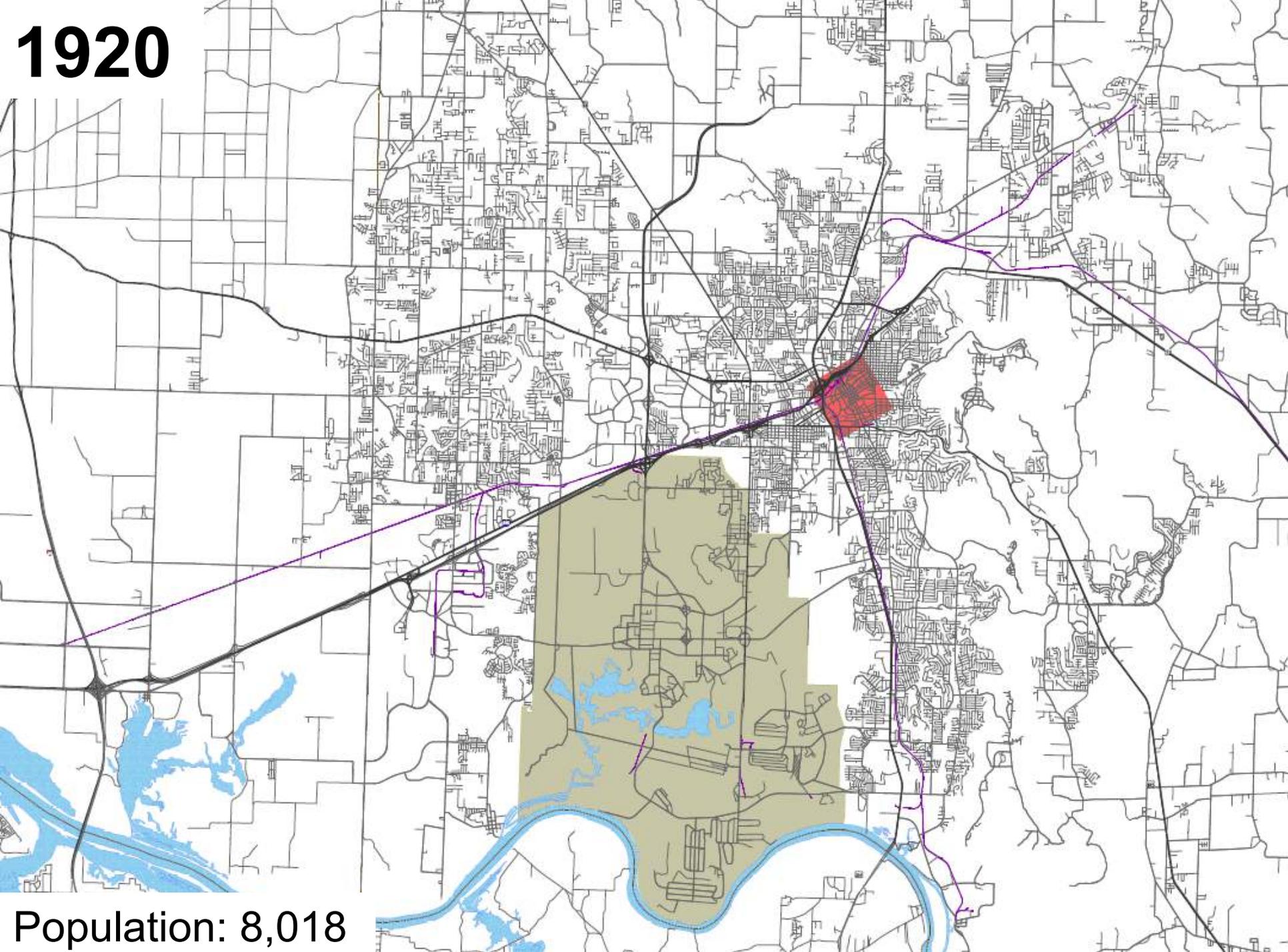
# 4 Mile Post

# Complete Streets in Huntsville, AL

## Challenges and A Demonstration Project

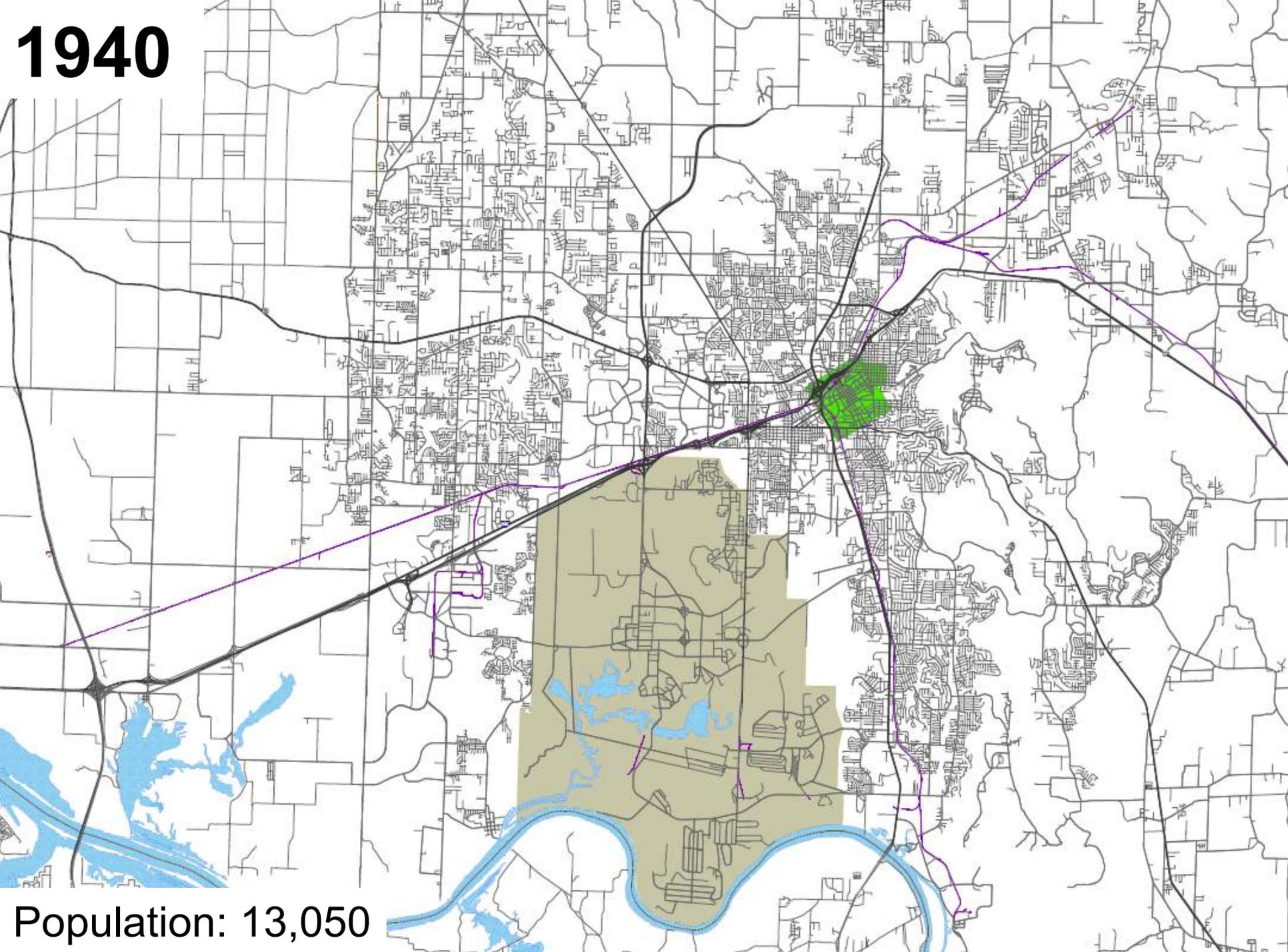


**1920**



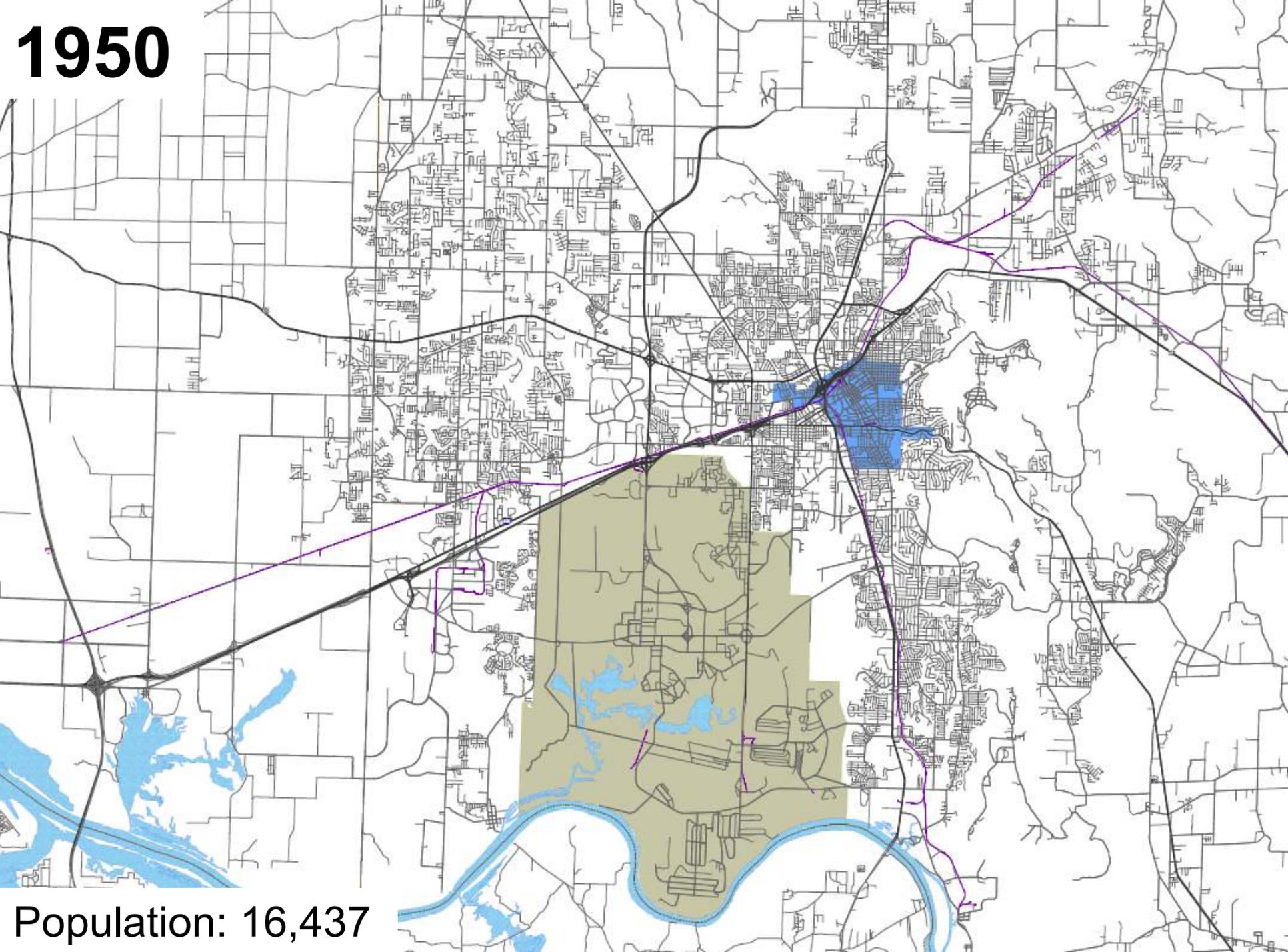
**Population: 8,018**

**1940**



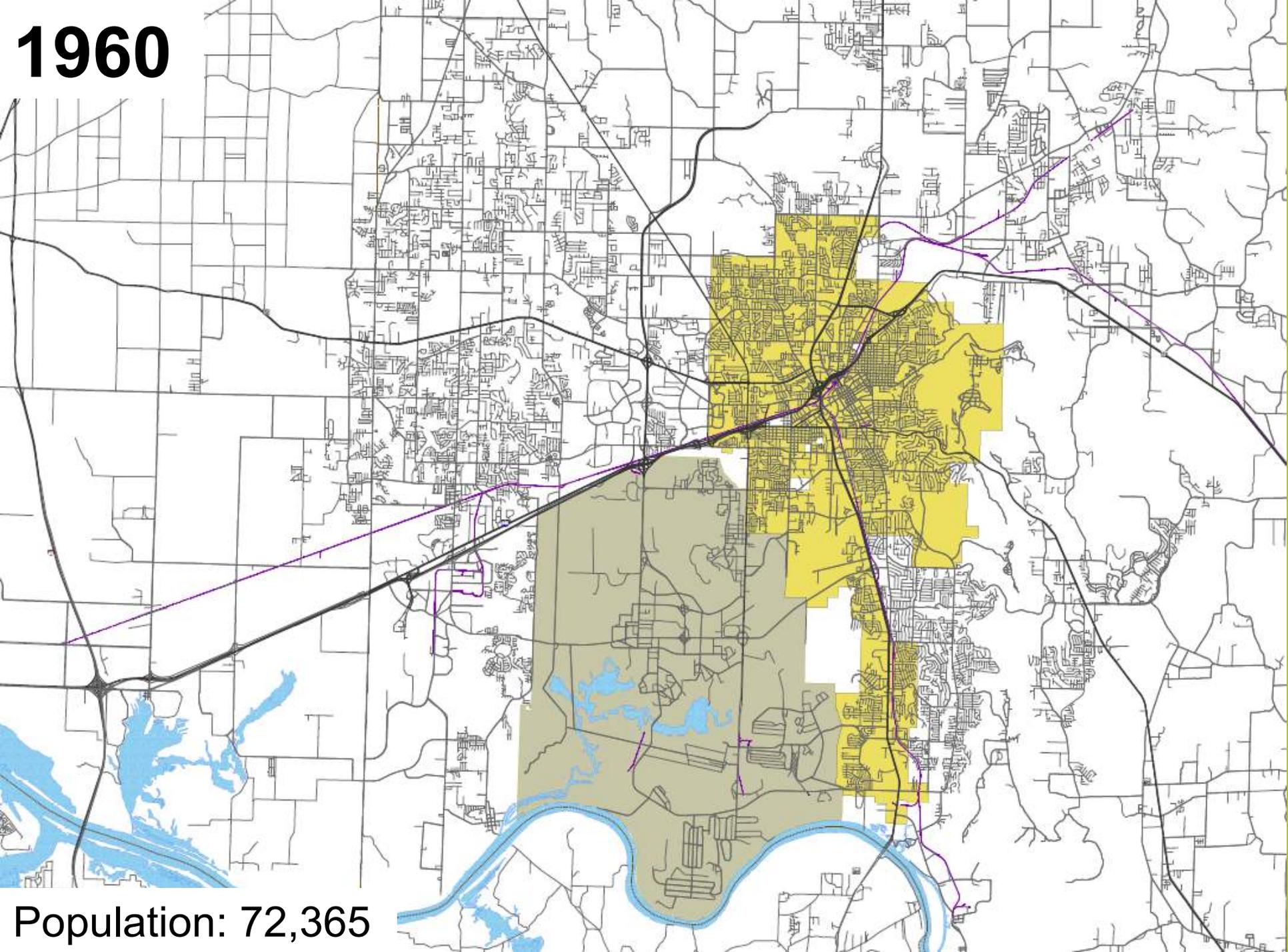
**Population: 13,050**

**1950**



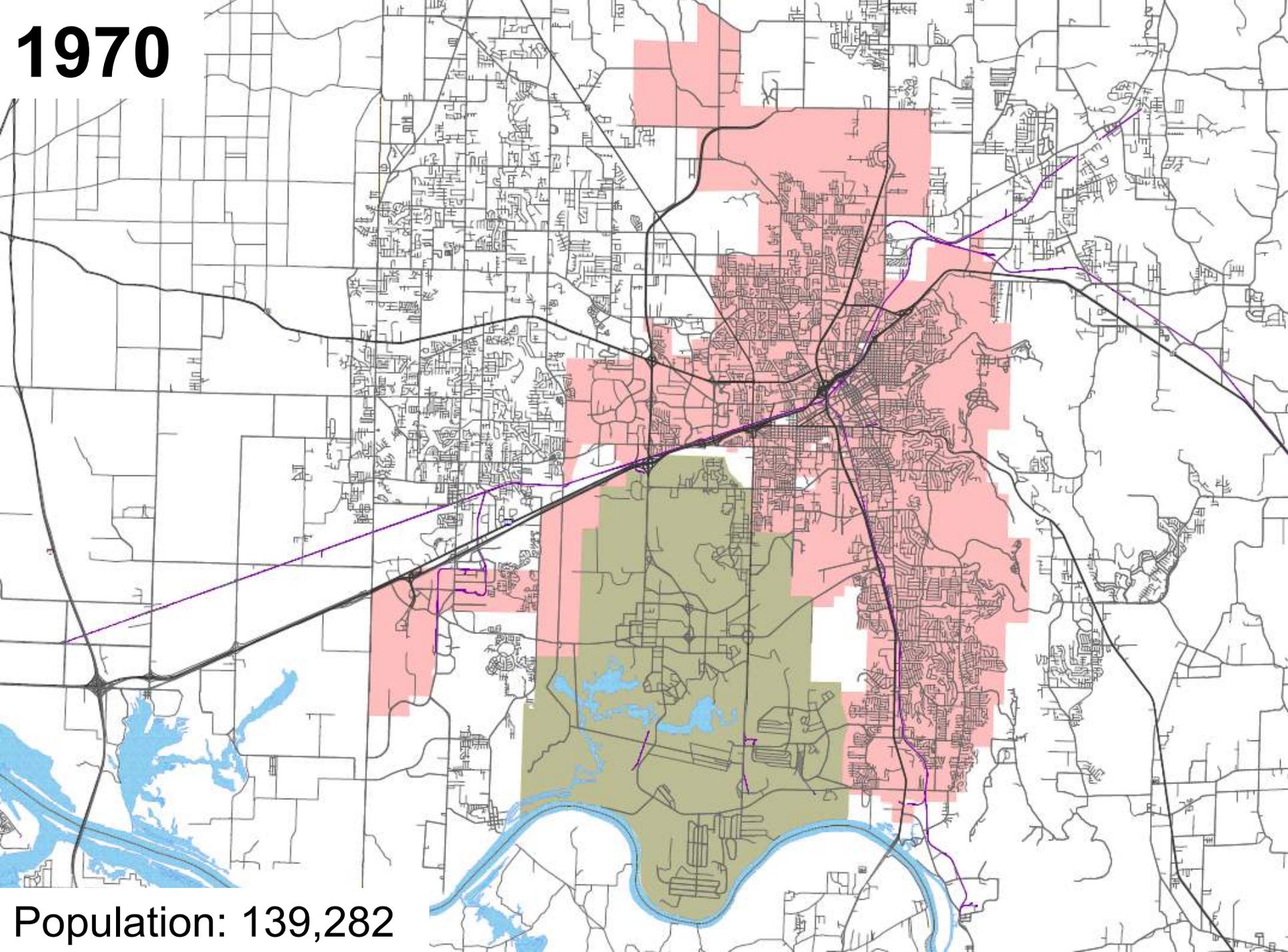
**Population: 16,437**

**1960**



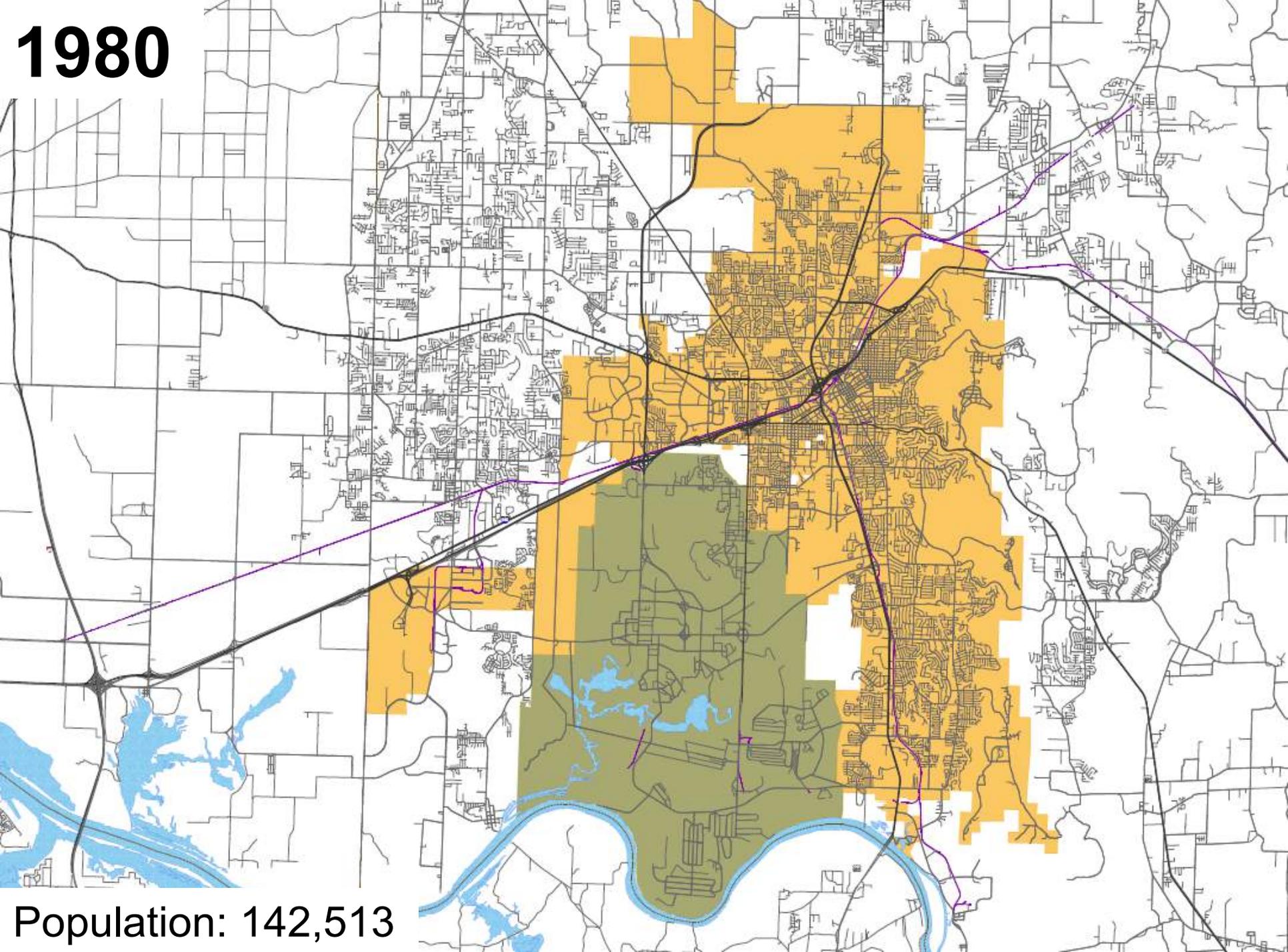
**Population: 72,365**

**1970**



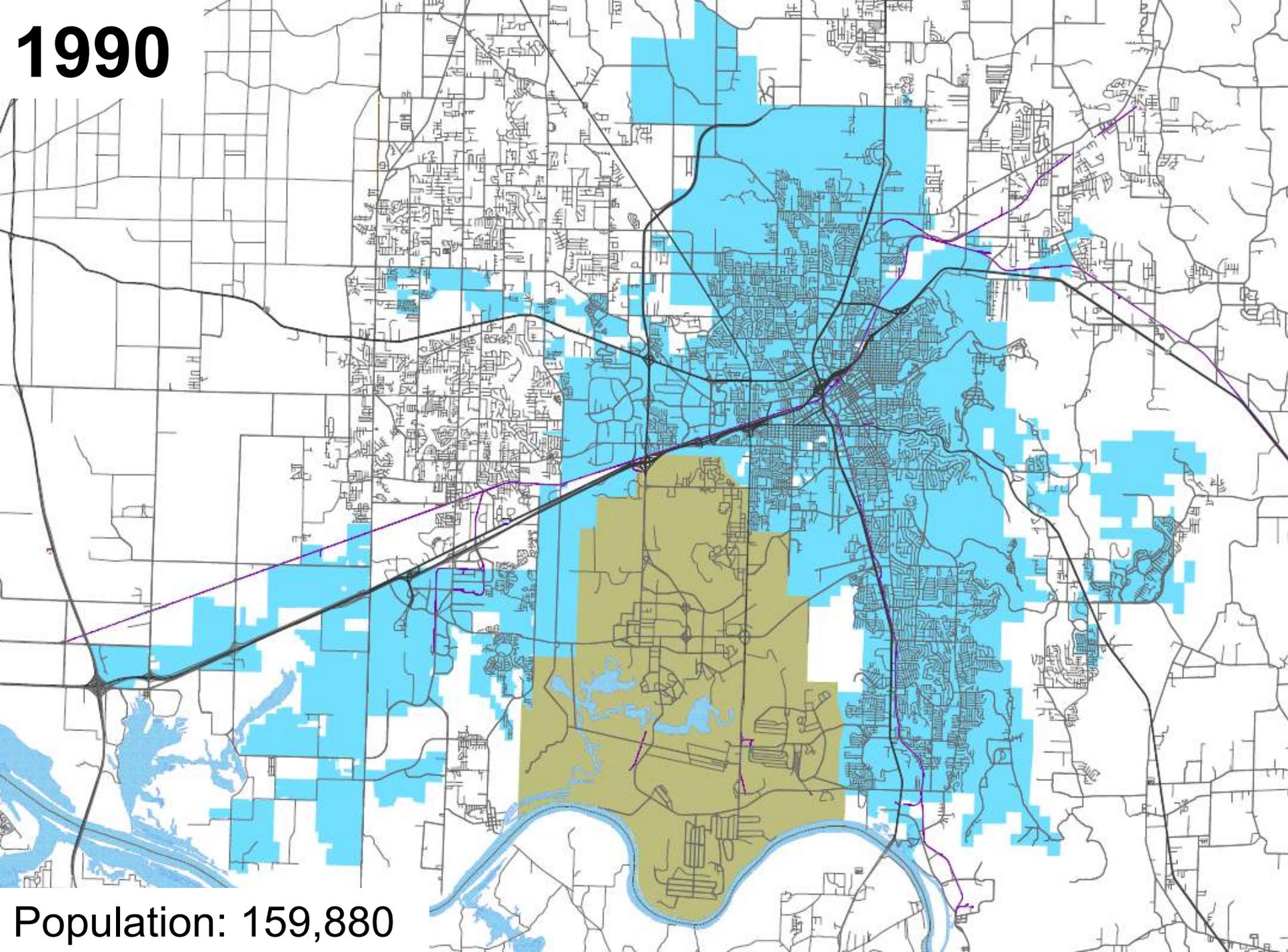
**Population: 139,282**

**1980**



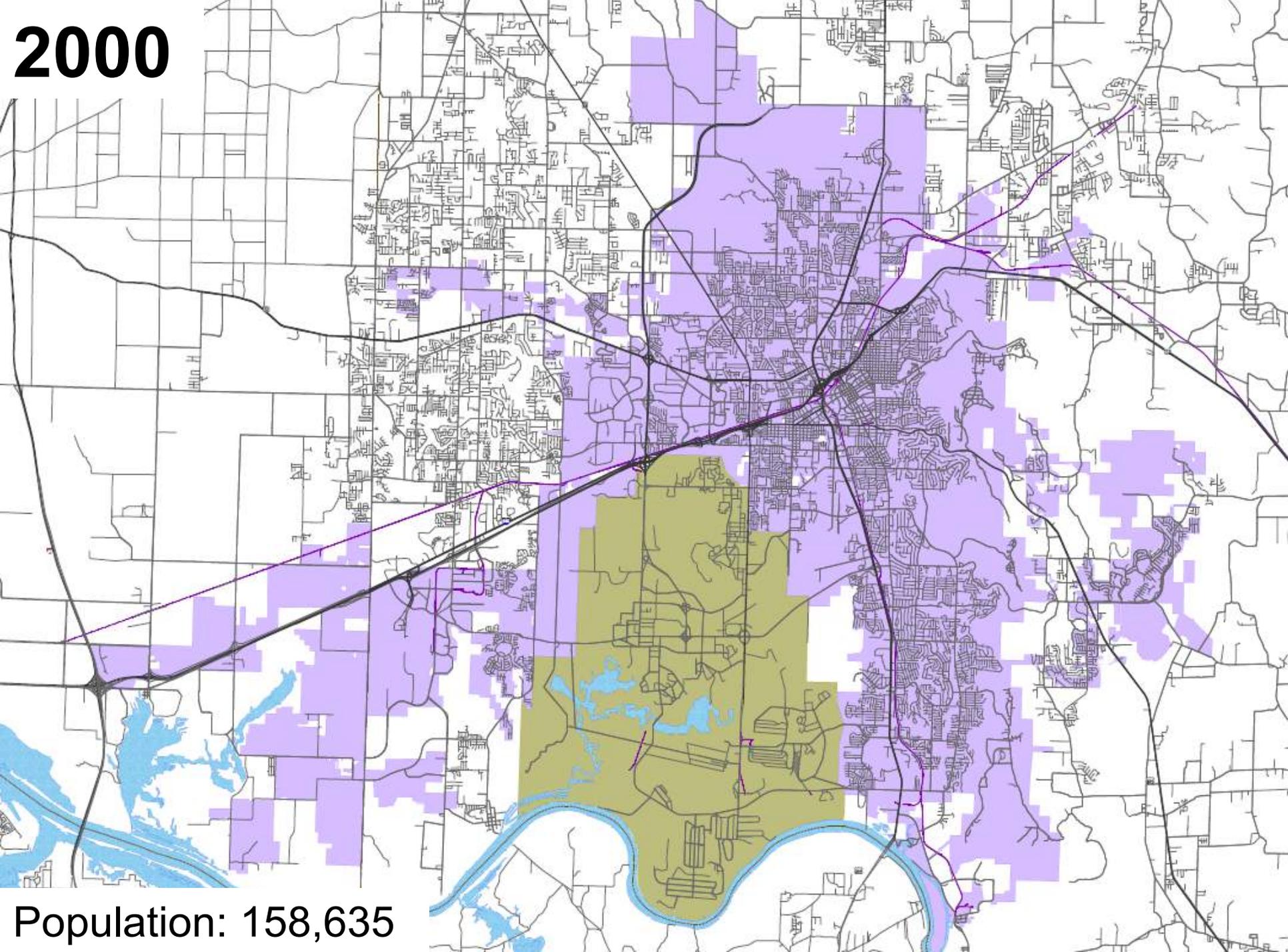
**Population: 142,513**

**1990**



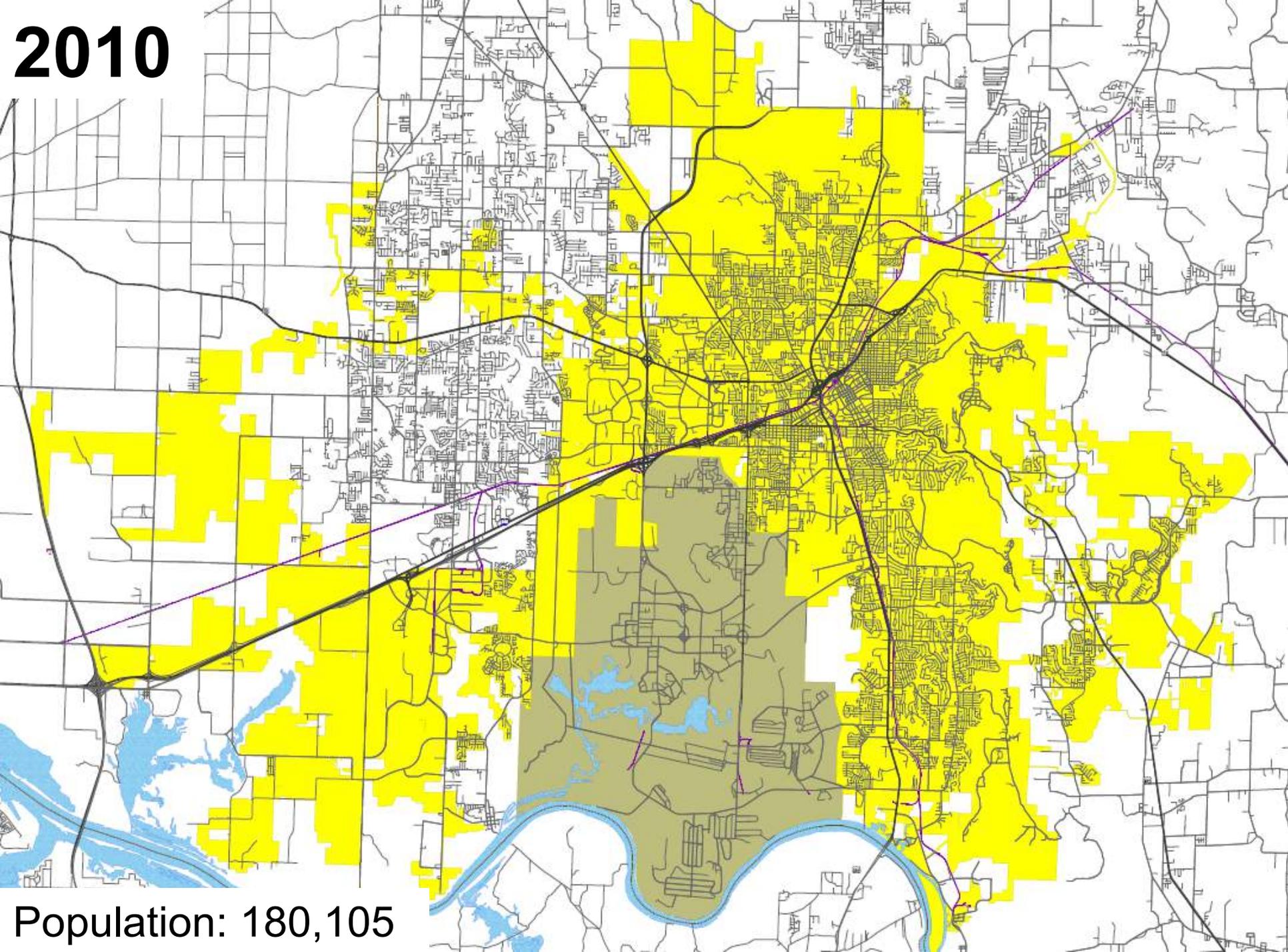
**Population: 159,880**

**2000**

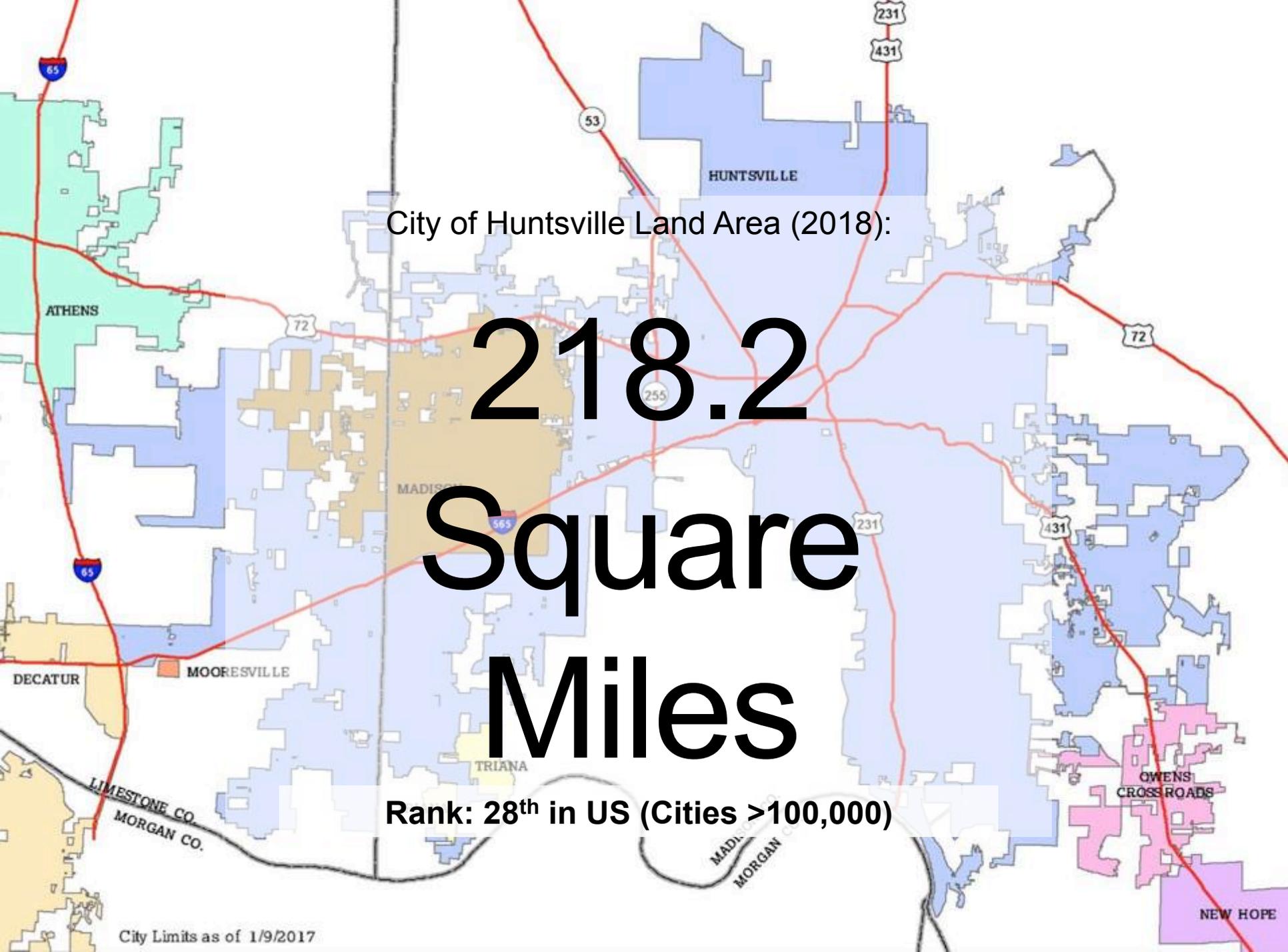


**Population: 158,635**

**2010**



**Population: 180,105**



City of Huntsville Land Area (2018):

**218.2**  
**Square**  
**Miles**

**Rank: 28<sup>th</sup> in US (Cities >100,000)**

City Limits as of 1/9/2017

**Atlanta**  
133.5 Square Miles



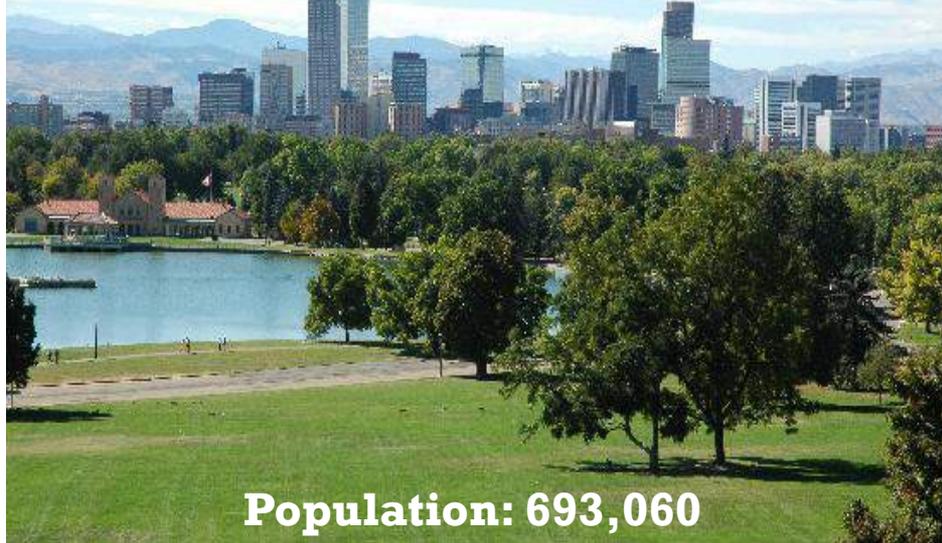
**Population: 472,522**

**Las Vegas**  
134.4 Square Miles



**Population: 632,912**

**Denver**  
153.3 Square Miles

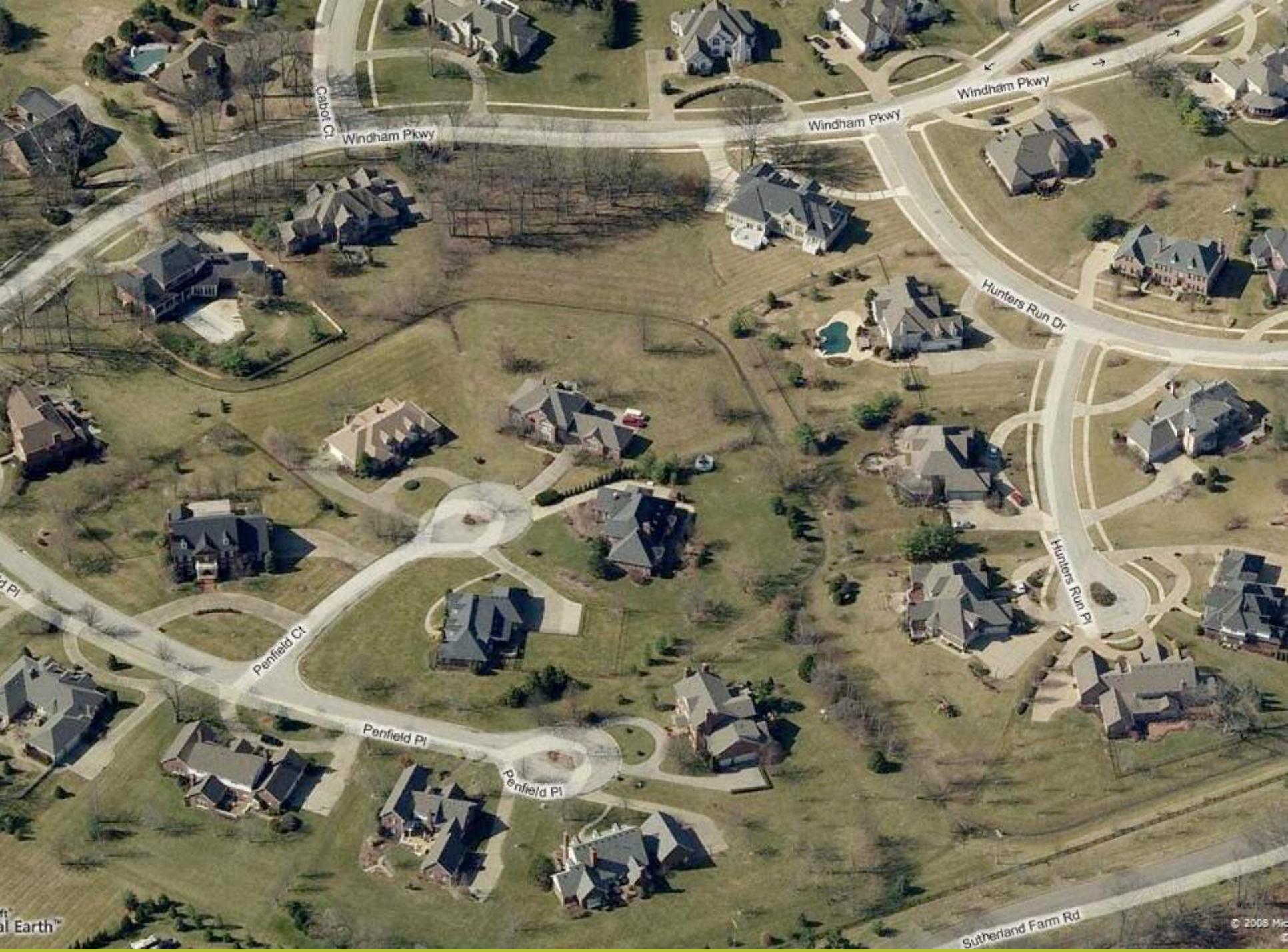


**Population: 693,060**

**Philadelphia**  
134.2 Square Miles



**Population: 1,567,872**



Carroll Ct

Windham Pkwy

Windham Pkwy

Windham Pkwy

Hunters Run Dr

Hunters Run Pl

Penfield Ct

Penfield Pl

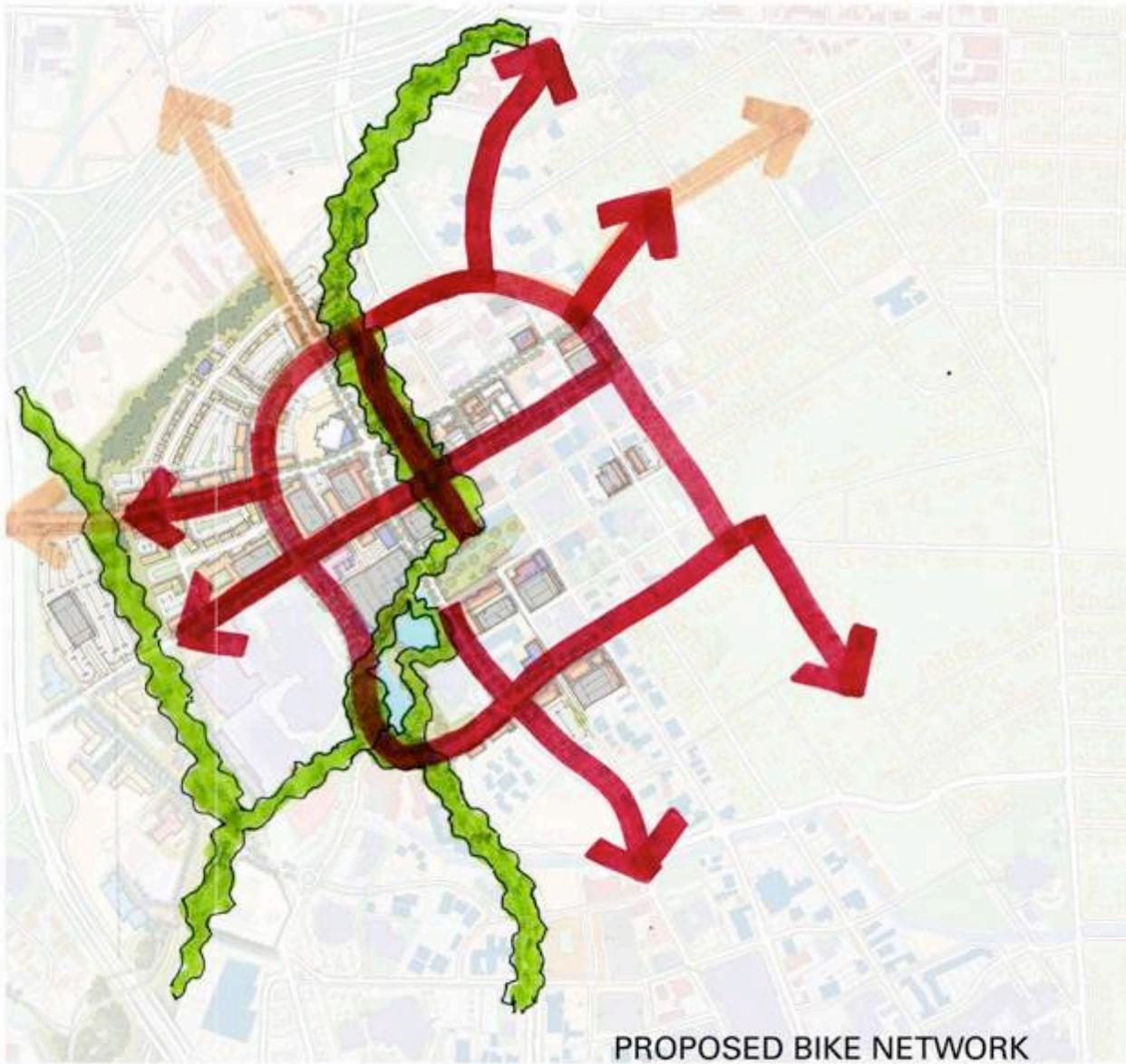
Penfield Pl

Sutherland Farm Rd



# Downtown Huntsville Master Plan

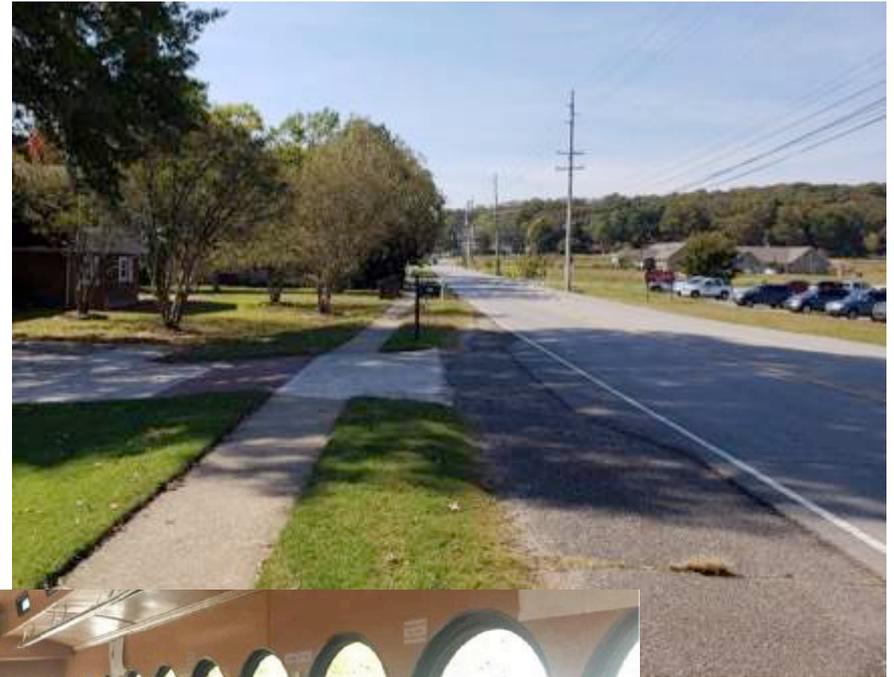




Enhance Mobility - The 'Bikeable' City Center

# Enter Safe Streets, Smart Cities

We take Complete Streets out of downtown



 HsvMayorsOffice  
@HsvMayorsOffice



# Jones Farm Park to Aldridge Creek Greenway

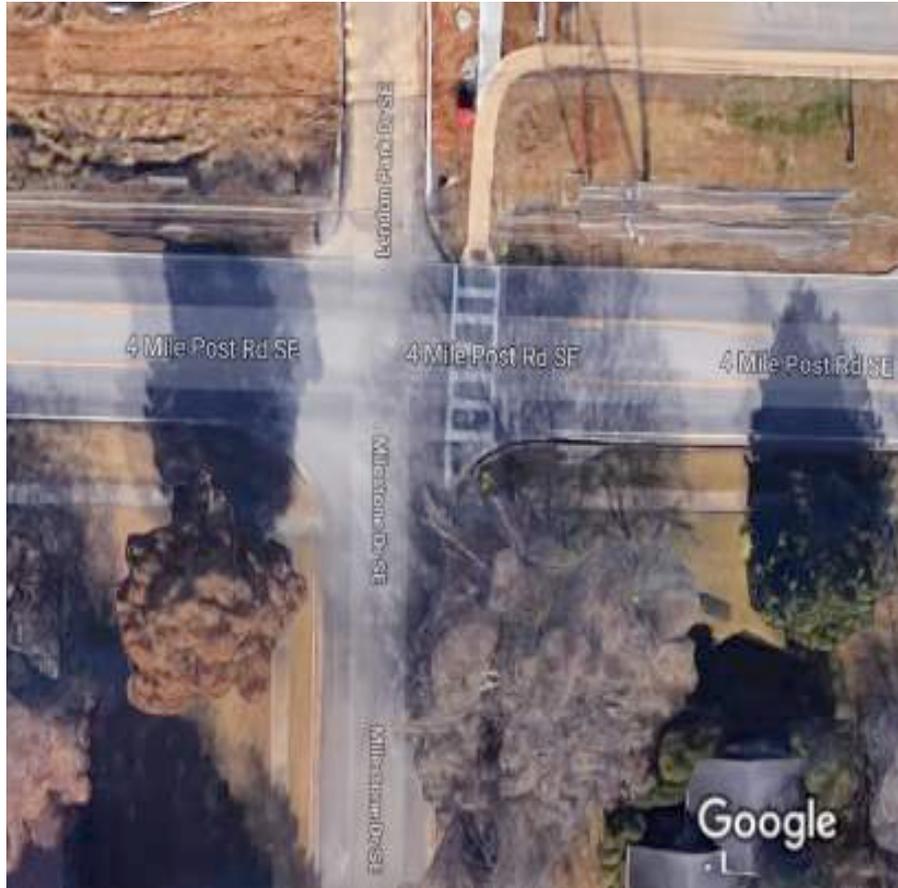
- Creating safe bicycle and pedestrian connection between two recreational resources.



# The Park and the Greenway



# Four Mile Post: Before and After



# Four Mile Post: Before and After



# Four Mile Post: Before and After



# Four Mile Post: Before and After



# Thank You!

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**Paige Colburn**

paige.colburn@huntsvilleal.gov

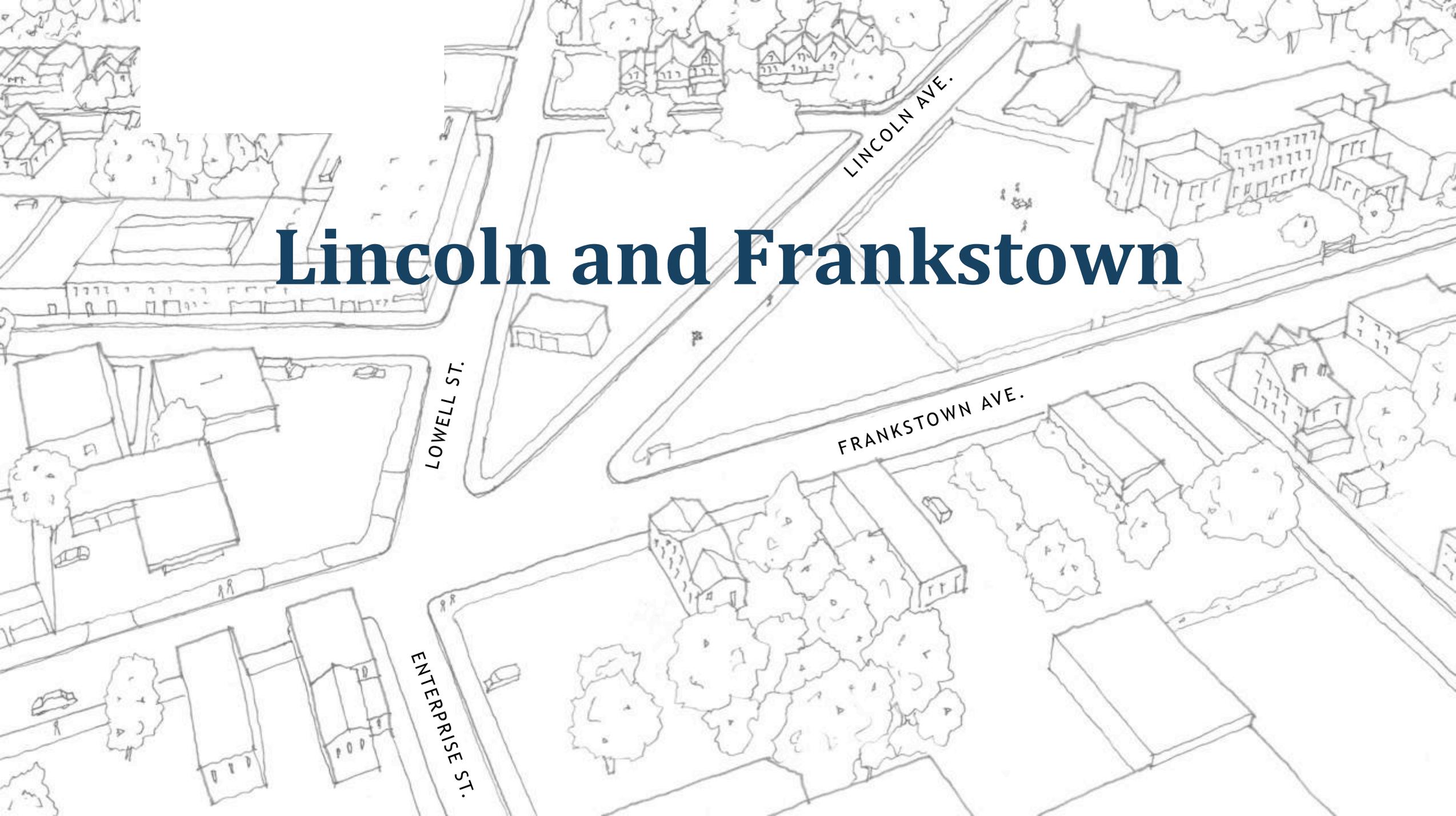
**Clint Johns**

Clint.Johns@huntsvilleal.gov



Pittsburgh, PA demonstration project

# Lincoln and Frankstown Avenues



# Lincoln and Frankstown

LOWELL ST.

FRANKSTOWN AVE.

LINCOLN AVE.

ENTERPRISE ST.

# Safe Streets, Smart Cities Academy



United Way  
of Southwestern Pennsylvania

# Port Authority



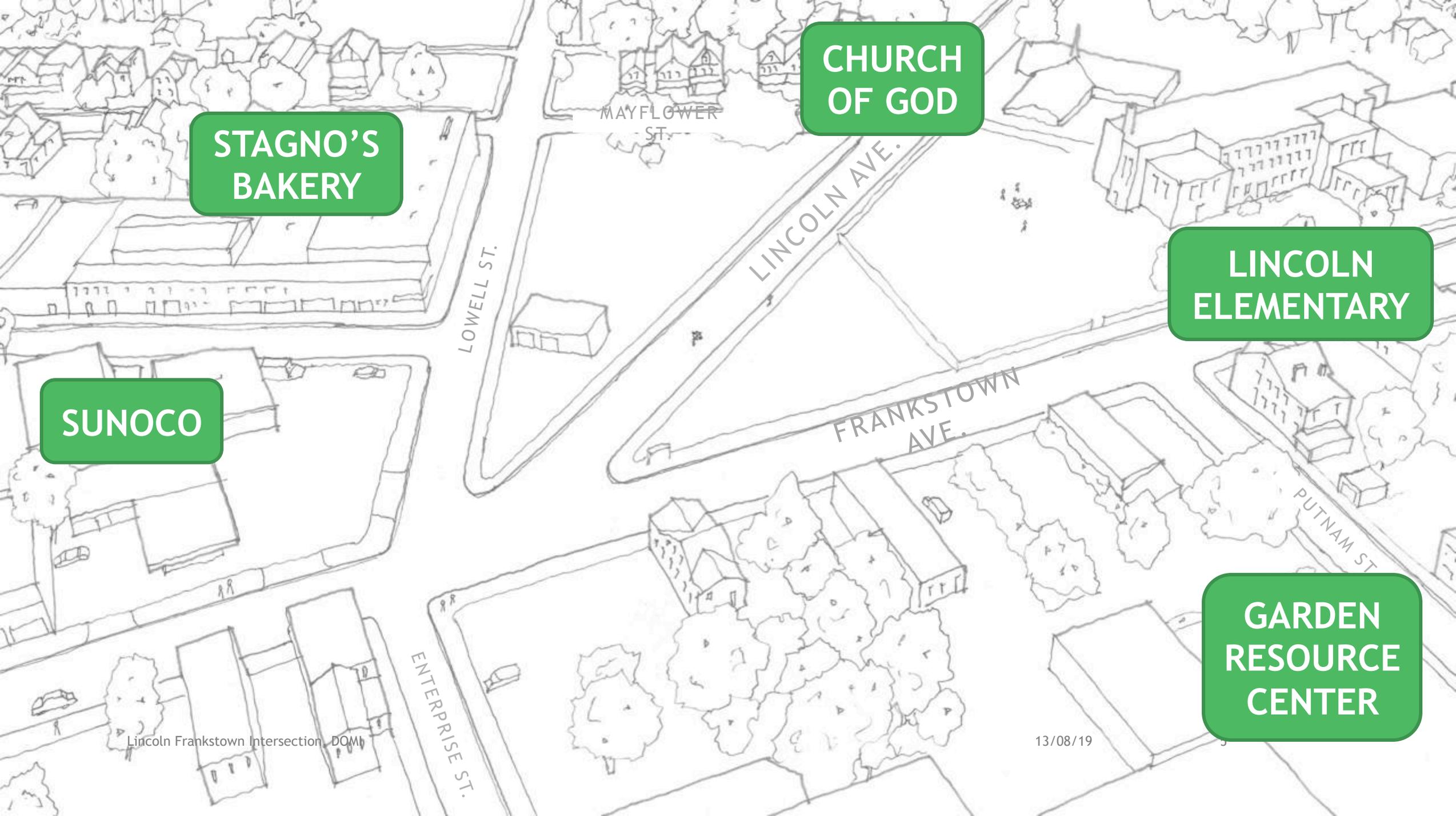
# Pittsburgh Public Schools

# Healthy Ride

## Intersection Selection

- High crash corridor / intersection
- Few 311 requests
- City-owned
- High potential for intervention
- In need of investment





**STAGNO'S  
BAKERY**

**CHURCH  
OF GOD**

**LINCOLN  
ELEMENTARY**

**SUNOCO**

**GARDEN  
RESOURCE  
CENTER**

# Lincoln Ave and Frankstown Ave

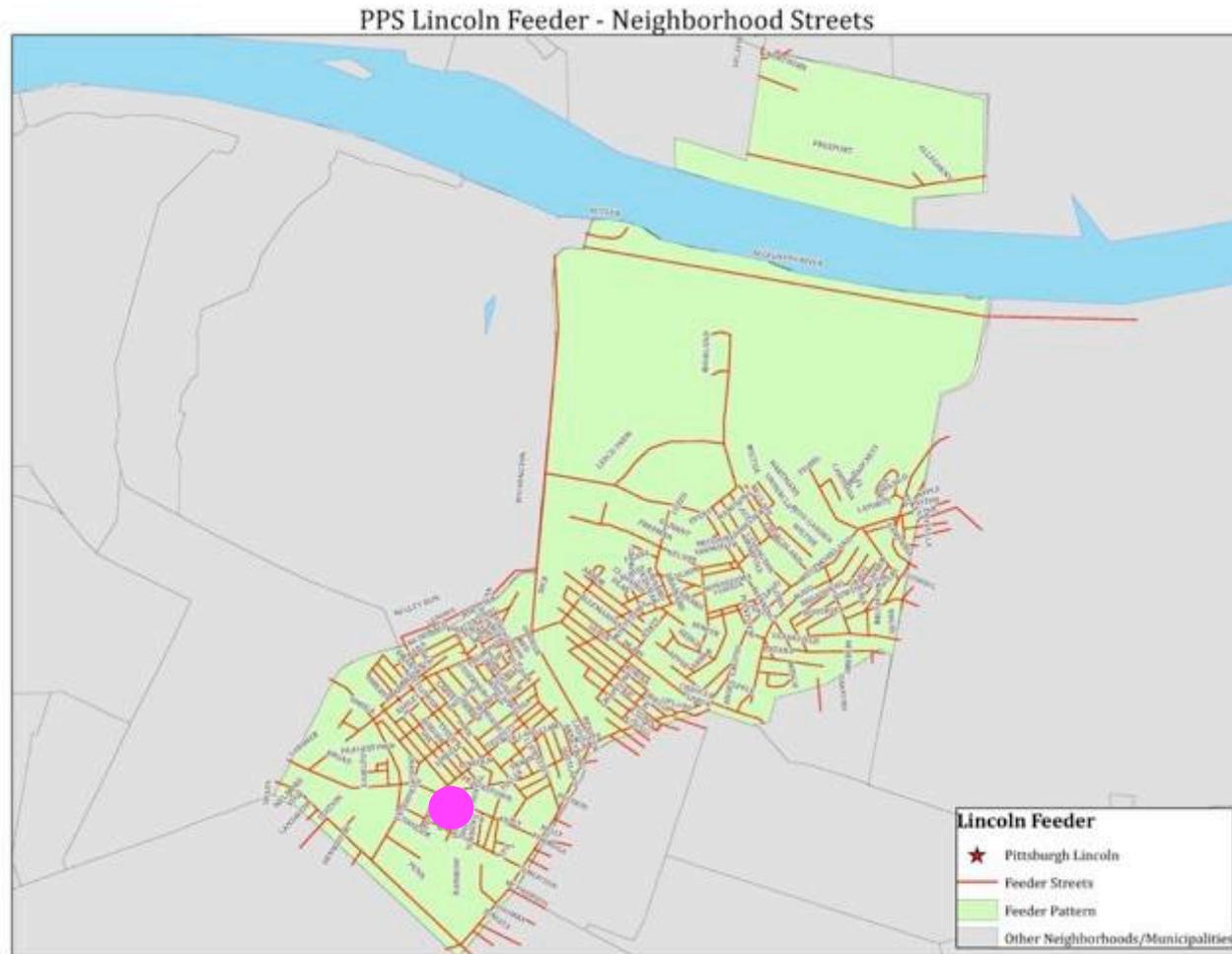


# Lincoln Ave and Frankstown Ave

Looking north



# Lincoln K-5 feeder pattern



Student Transportation:

106 bus riders

81 walkers (43%)

# Surveys and School Outreach

## ▶ Seat Belt Safety

How should we buckle up?

Are you in the right seat?

## ▶ Safe Walking

Safety rules of walking

## ▶ School bus safety

The danger zones of a school bus

The “school bus seat belt”

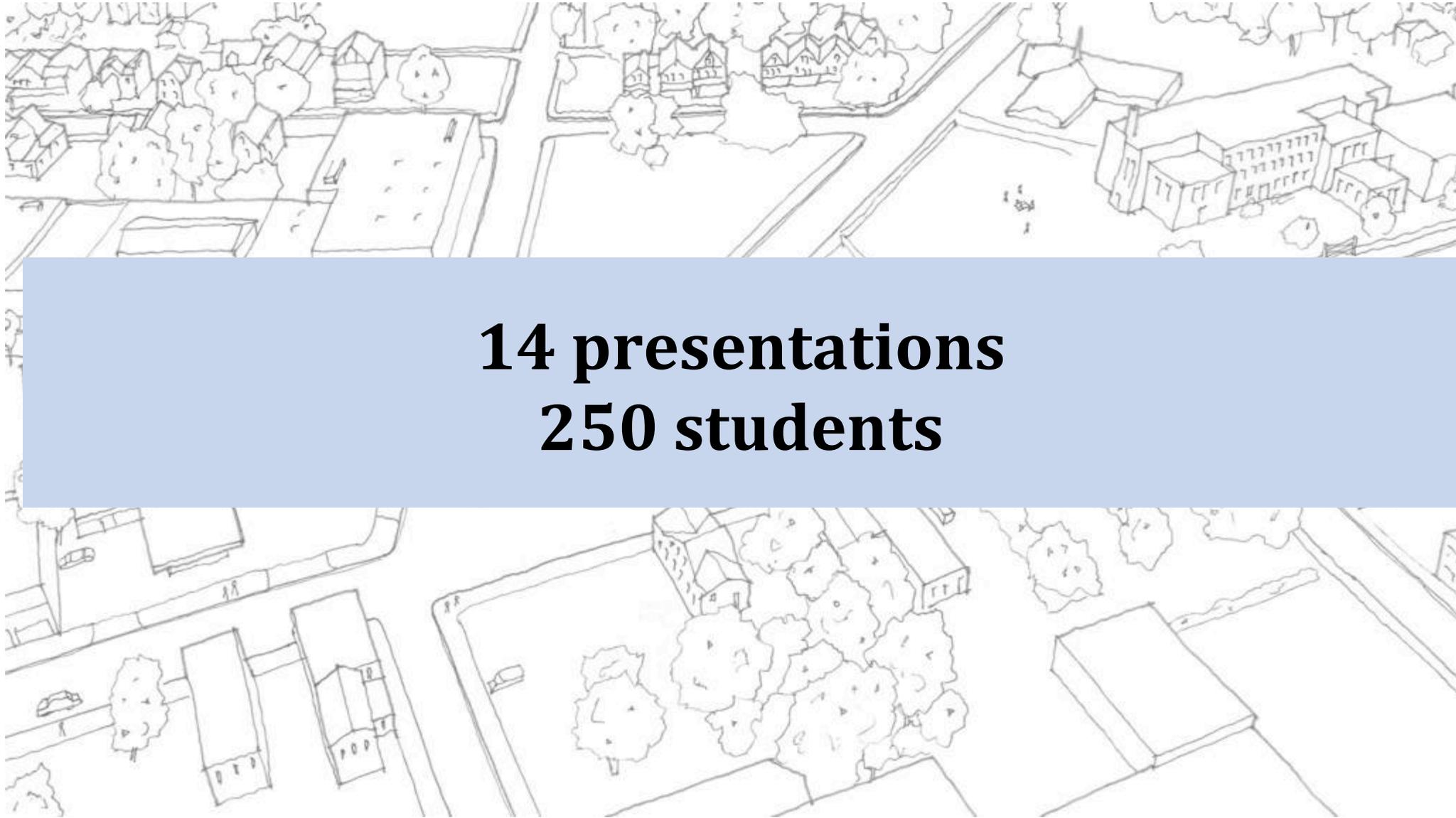
## ▶ Bikes

What do you need to ride?

Protecting your head

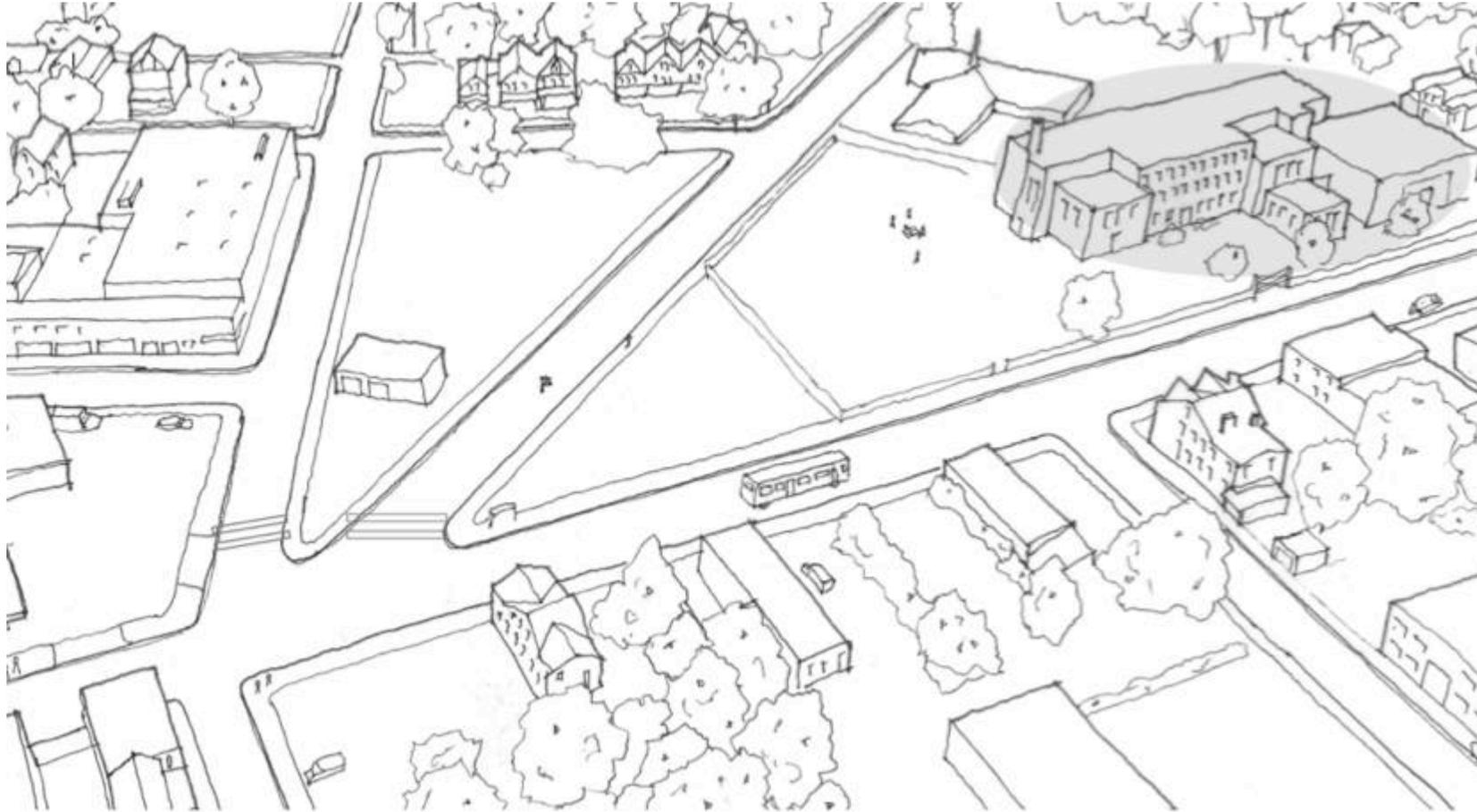


## **Surveys and School Outreach**



**14 presentations**  
**250 students**

# Surveys and School Outreach



✕ Where you cross the street

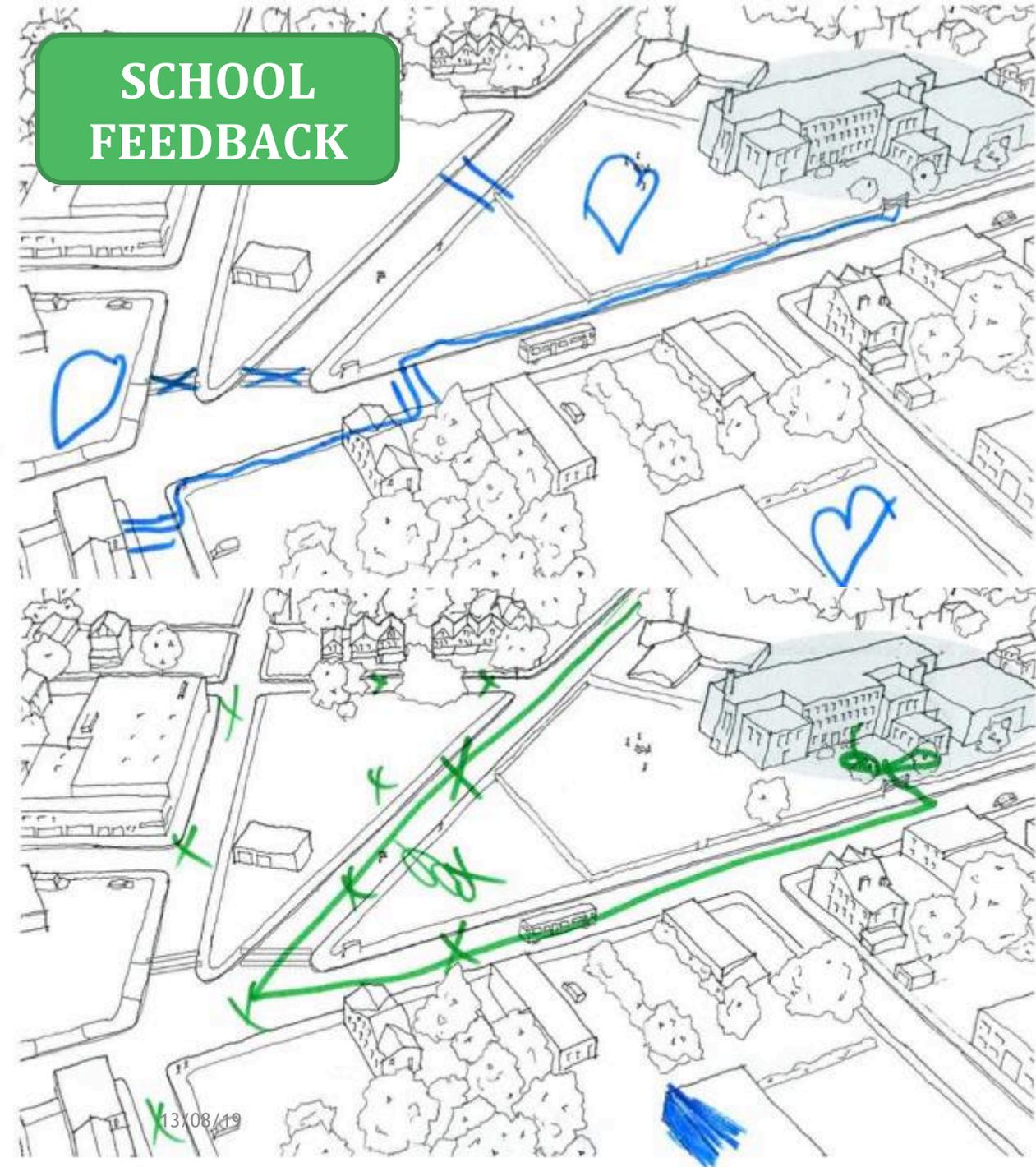
== Where you want a new cross walk

♥ Where you want to see artwork

○ Where you want to see plants

--- Your path to school

# SCHOOL FEEDBACK



**SCHOOL  
FEEDBACK**

2

4

6

17

4

24

7

6

8

10

12

8

5

1

**WHERE  
STUDENTS  
ARE  
CROSSING**

**WHERE  
STUDENTS  
WOULD LIKE  
TO CROSS**

**ARTWORK  
AND PLANTS**

## **Surveys and School Outreach**

**How do you feel when you cross the intersection?**

“I feel a little bit scared because the cars go too fast but I feel dangerous “

“I feel safe when I cross the street “

“I feel brave “

“Nervous”

## **Surveys and School Outreach**

**Would you like to add anything to the open space in the intersection to make it feel more fun? If so, what?**

“A light to tell cars ‘here comes the kids’”

“Sidewalks and more crossing guards “

“Trees and flowers”

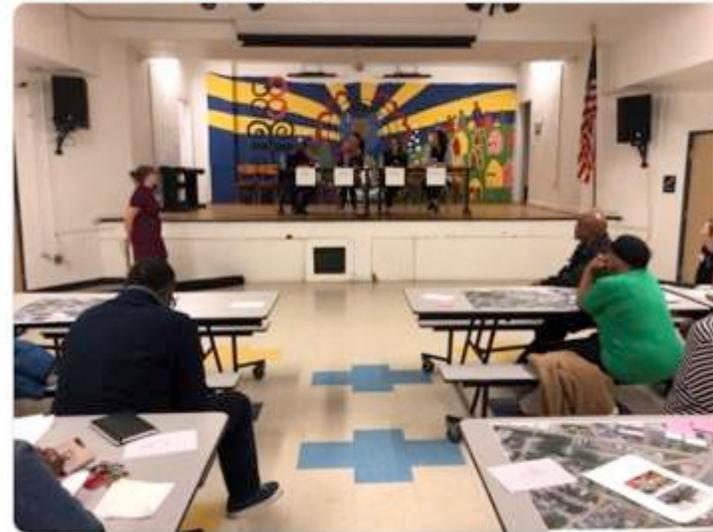
# Neighborhood Outreach – Deliberative Democracy



**Pittsburgh Mobility & Infrastructure**  
@PghDOMI

Follow

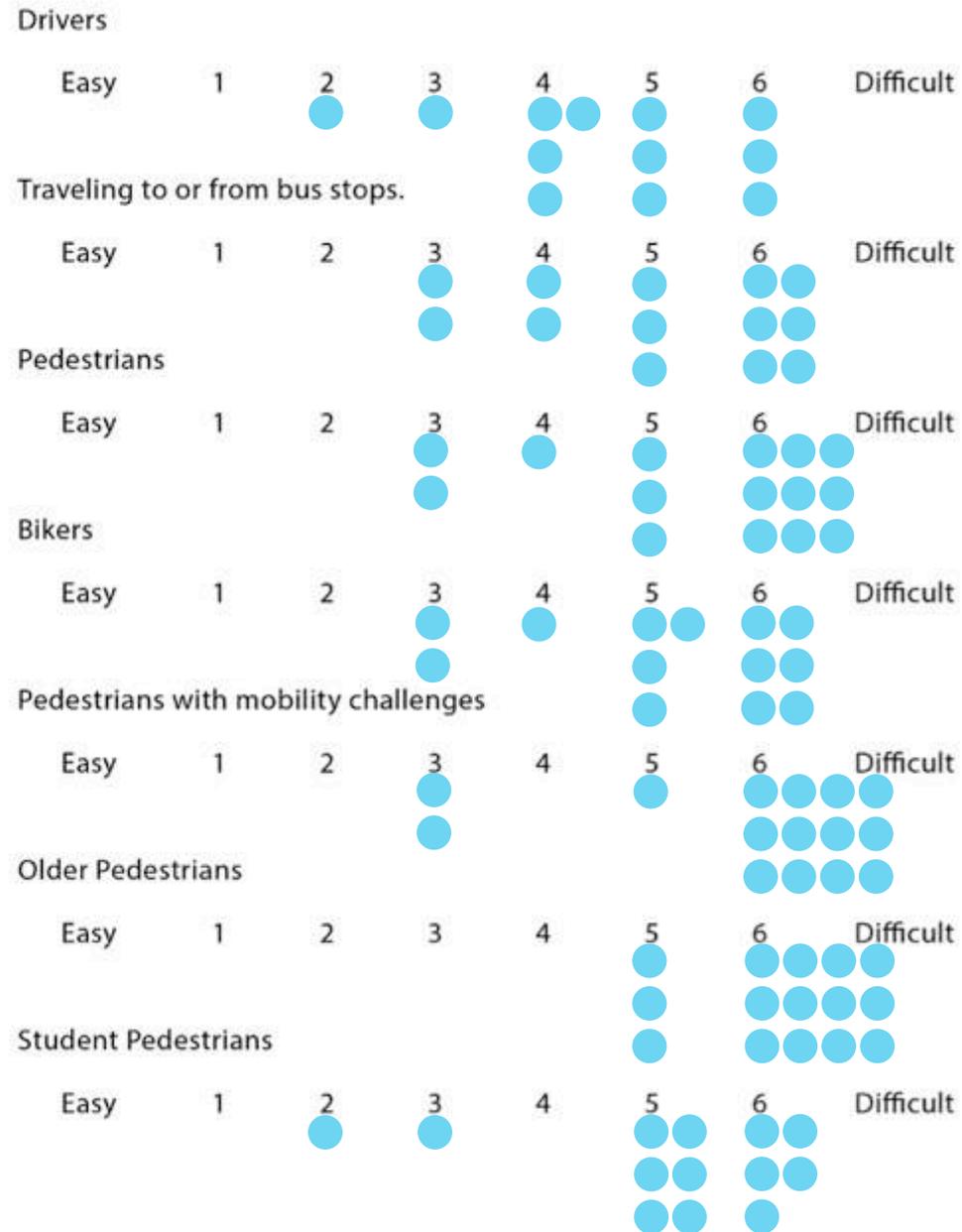
Great community input and ideas about how to improve the Lincoln Frankstown intersection at our community forum last night. Check back here for more information about our next event and changes to the intersection coming soon.



1:07 PM - 3 Apr 2019

# Neighborhood Outreach – Deliberative Democracy

How easy is it for the following groups to use this intersection?



## **Neighborhood Outreach – Deliberative Democracy**

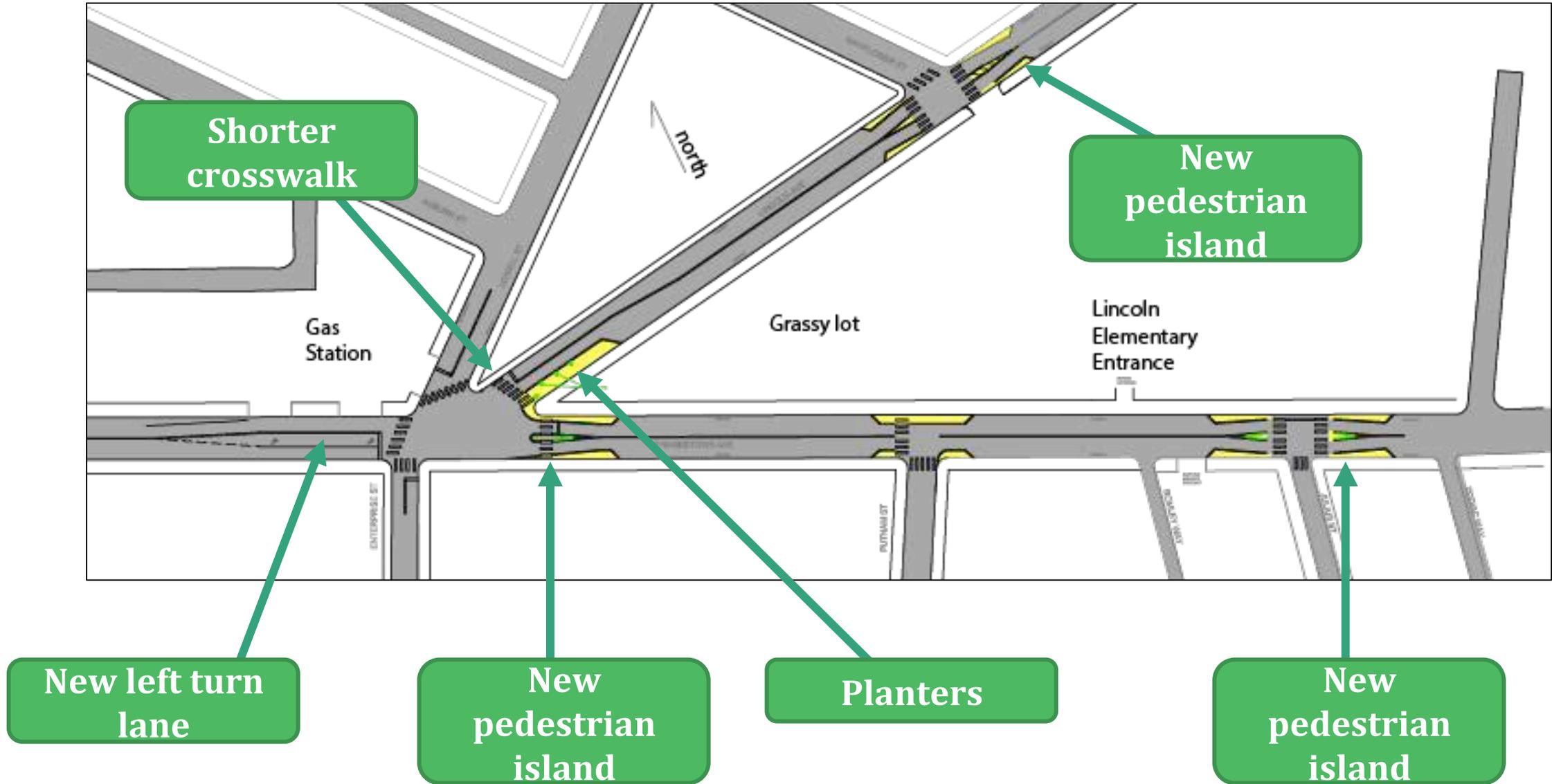
**When crossing this intersection, is it easy, do you feel safe, is it pleasant?**

“scary at night”

“barren and exposed to sun and cold”

“depressing”

# Project Implementation & Celebration



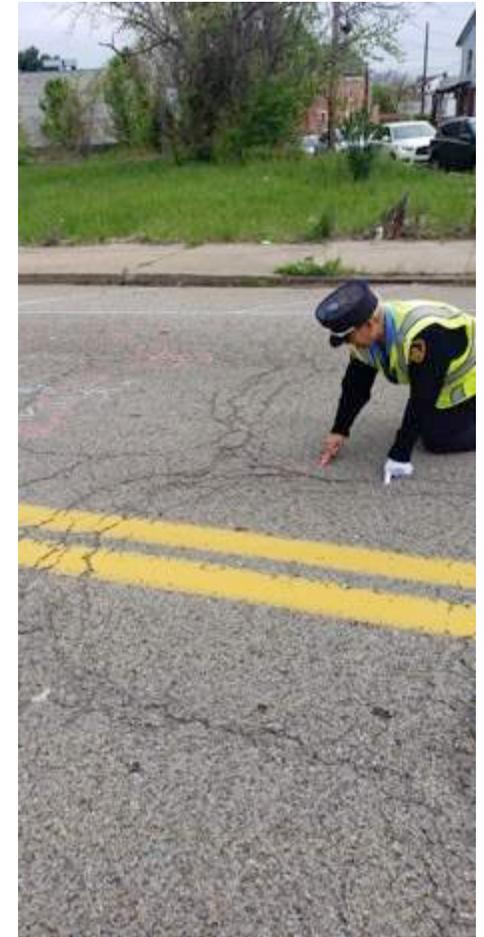
# Project Implementation



# Opening Party



# Opening Party



# Opening Party



# **Thanks for listening and thanks to our project team!**

**Oliver Beasley**, Policy Analyst, Office of the Mayor

**Sergey Brodskiy**, Staff Engineer, City of Pittsburgh

**Leann Chaney**, Transportation Planner, Southwestern Pennsylvania Commission

**Sarah Khalil**, Service Leader, Pittsburgh Bike Share

**Anna Kudrav**, Assistant Chief, Pittsburgh Bureau of Police

**Breen Masciotra**, TOD Project Manager, Port Authority of Allegheny County

**Bryanna McDaniel**, Public Health Educator, Allegheny County Health Department

**Shauna McMillan**, Director of School Initiatives, United Way

**Megan Patton**, Transportation Project Manager, Pittsburgh Public Schools

**Lindsay Powell**, Assistant Chief of Staff, Office of the Mayor

**Kristin Saunders**, Principal Transportation Planner, City of Pittsburgh

**Katy Sawyer**, Traffic Project Manager, City of Pittsburgh

**Craig Toocheck**, Staff Engineer, City of Pittsburgh



**Smart Growth America**  
Improving lives by improving communities



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Streets Coalition**



Type your questions for our presenters in the chat box

# Questions?