



# Liberty County Mobility Study

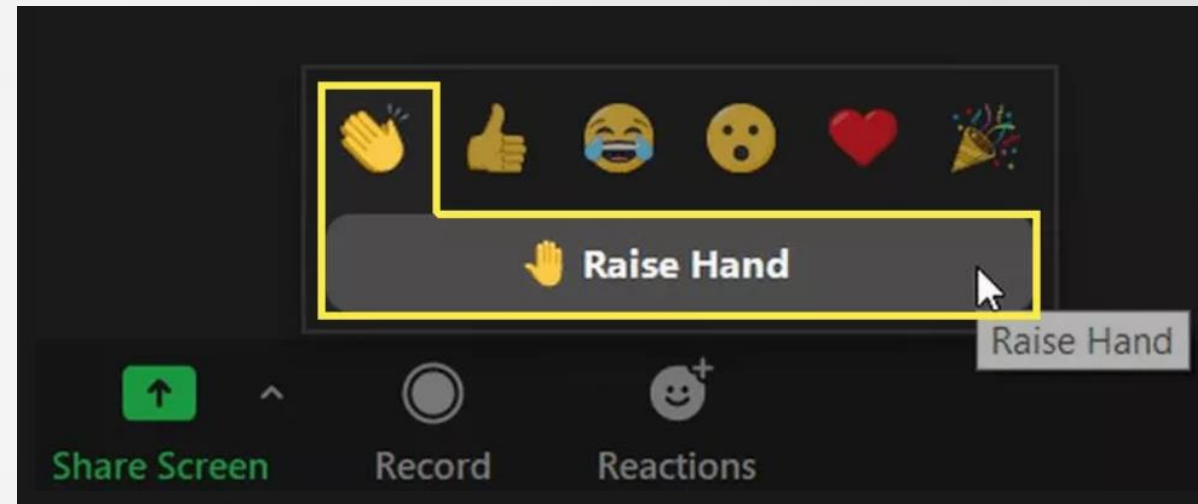


**Thomas B. Gray, AICP**  
**Mike Feeney, P.E.**  
**Public Meeting #1 - April 29, 2021**



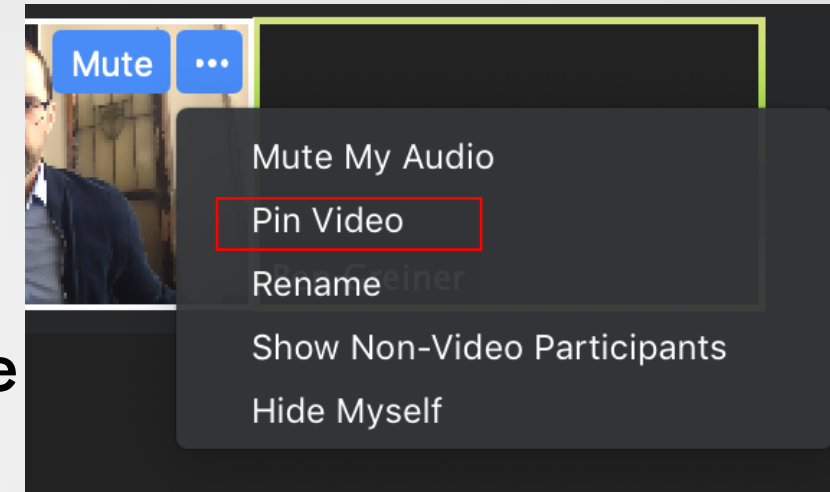
# Today's Process: Asking Questions

- All attendees except presenters are on mute during the meeting
- Please limit comments to 3 minutes each
- During Question and Answer portions of the meeting, if you would like to speak:
  - **Raise Hand in Zoom Meeting**  
(During a meeting, navigate to the bottom options bar in your video screen and click **Reactions and Raise Hand**)  
  
If you call and attending through toll-free number, Press \*9 to raise hand
  - **Staff will unmute you to speak**
  - Click *Raise Hand* again to **Lower Hand** after you speak

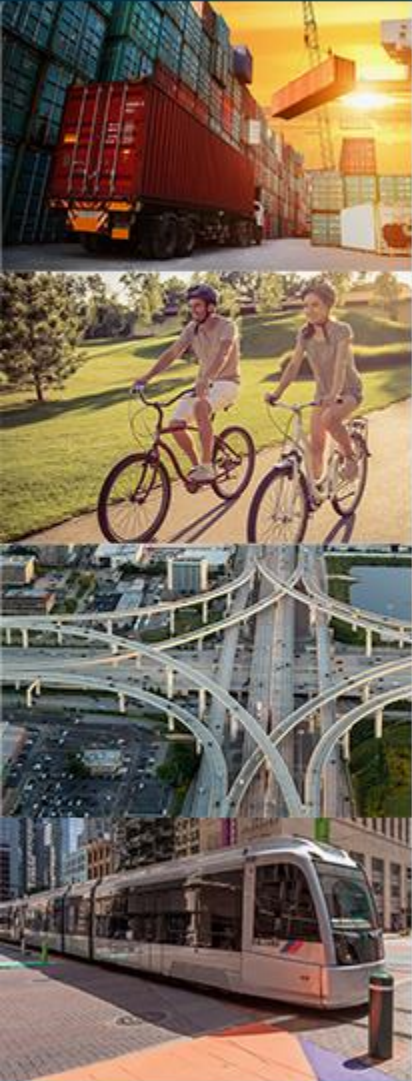


# Today's Process: Translation & Interpretation

- Spanish Translation service is available as needed. Please Raise Hand and speak if you need translation during the meeting.
- American Sign Language (ASL) Interpreter is available:
  - **Pin** the video of the ASL interpreter to keep the video in front of display
  - Click on "... " on the top right of the video and click "**Pin Video**"



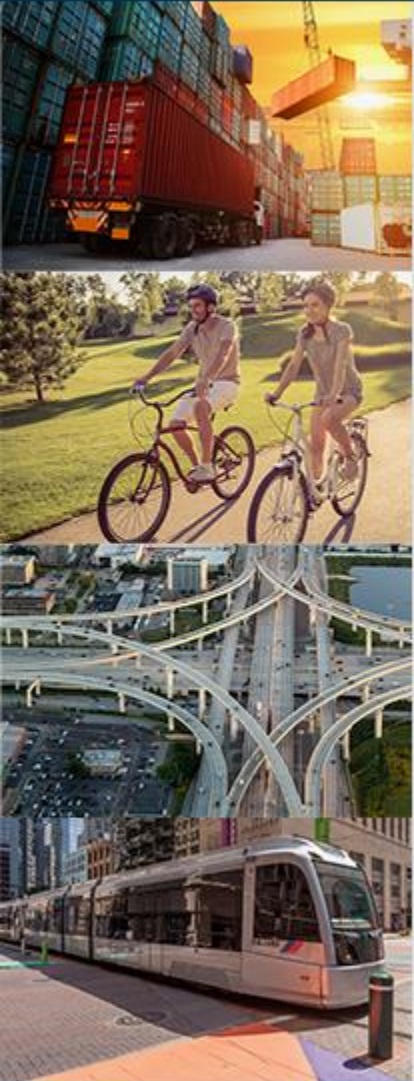
# Agenda



## Presentation

1. Introductions
2. Project Overview
3. Vision and Goals
4. Identified Issues and Needs
5. Existing Conditions
6. Your Role
7. Next Steps

**Q & A – Live and Interactive**



# Introductions



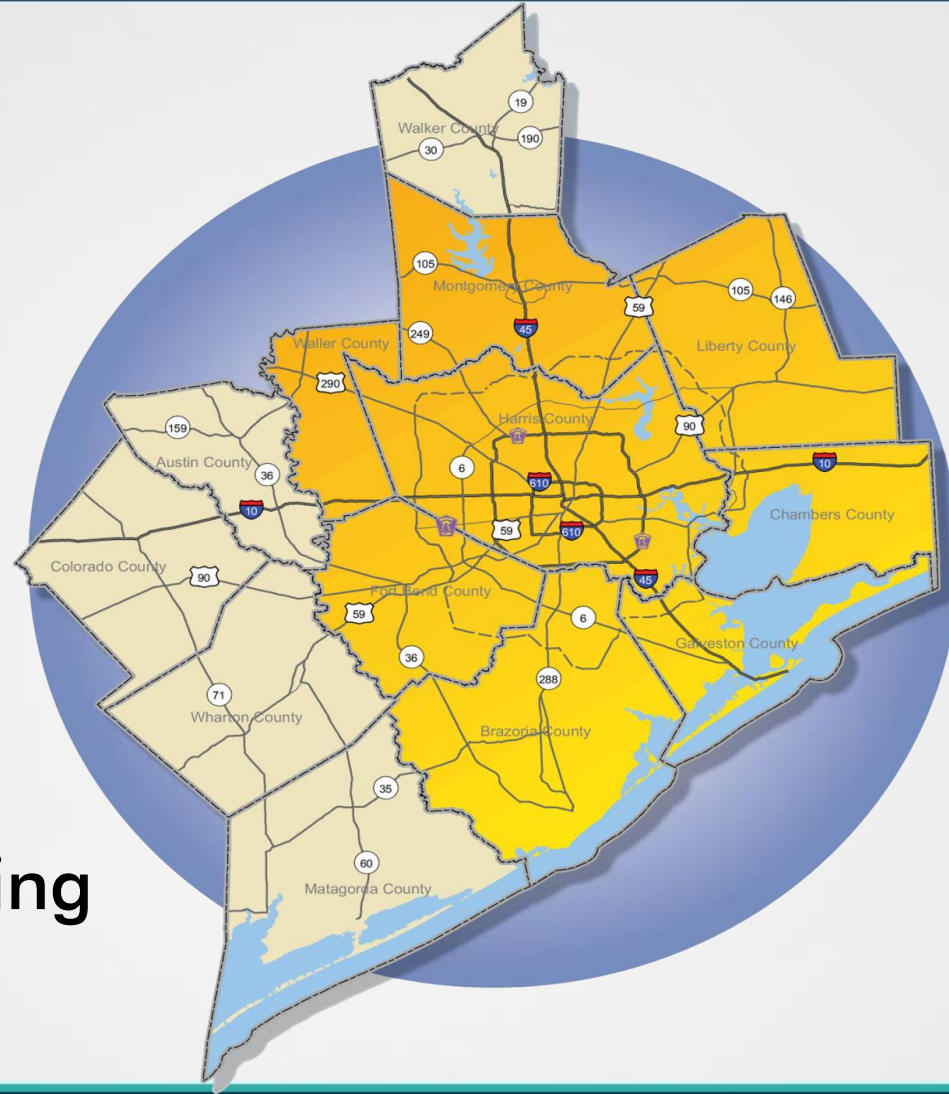
# What is H-GAC?



- Regional forum for cooperative action by local governments in 13-county region.
- Created by Texas, Functions Defined by State and Local Governments:
  - Area Agency on Aging (12 Counties)
  - Job Training (13 Counties)
  - Gulf Coast 911 District (8 counties)
  - HGACBuy; Energy Purchasing; SBA; and more
  - Transportation Planning

# Metropolitan Planning Organization

- Designated in 1974
- 8 counties, 120 local governments, ports
- 6.7 million residents
- Cooperative, Continuous, and Comprehensive Transportation Planning



## MPO Counties

- Brazoria
- Fort Bend
- Waller
- Montgomery
- Liberty
- Chambers
- Galveston
- Harris

# Project Team



## Project Manager – Thomas Gray, AICP

Project Management  
Communications  
Modeling



Client  
Project Review

## Project Manager – Michael Feeney

Project Management  
Issues & Needs



Analysis  
Final Report

Policy Assessment  
Implementation/Funding



Analysis  
Implementation

Multimodal  
Considerations



Data Collection



# Steering Committee



**Liberty County Engineer's Office**

David Douglas

County Engineer

**City of Cleveland**

Robert Pennington

City Manager

**City of Dayton**

Kimberly Judge

Assistant City Manager / Director of  
Development Services

**Dayton Community Development  
Corporation**

Ann Marie Miller

Executive Director

**City of Liberty**

Tom Warner

City Manager

Chris Jarmon

Assistant City Manager

**TxDOT**

Noel Salac

Liberty County Engineer

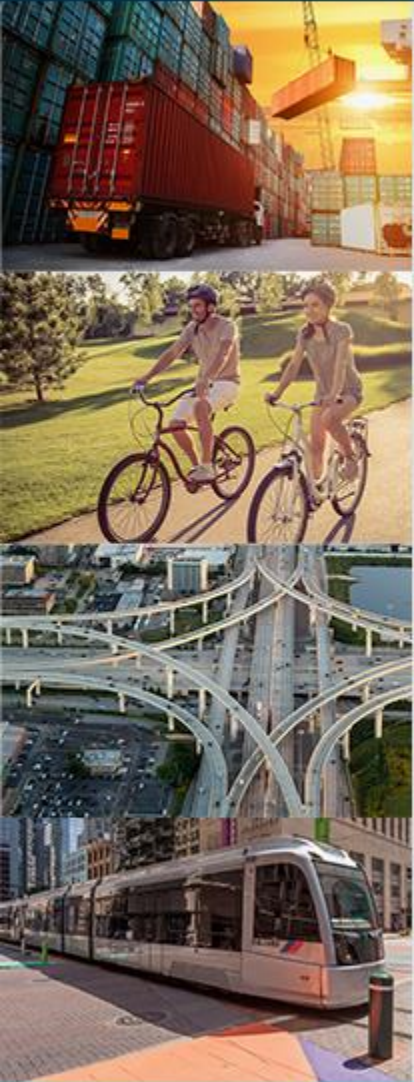
Lisa Collins

Beaumont District

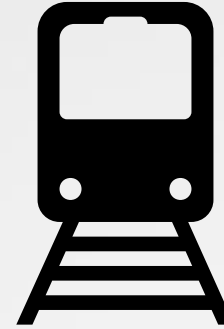
Jeffrey English

Houston District

# Potential Stakeholders



Business



Transportation



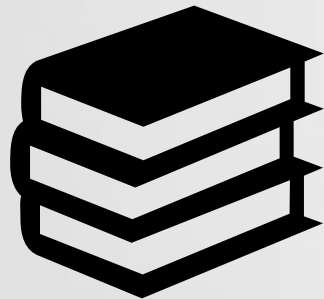
Government



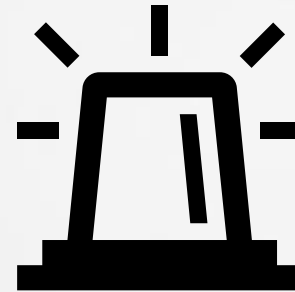
Healthcare



Real Estate/  
Developers



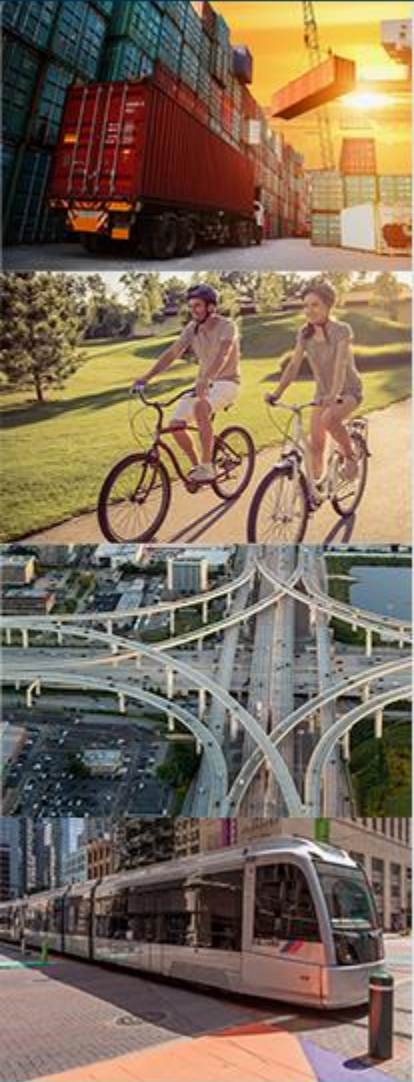
Schools



Emergency



Law Enforcement

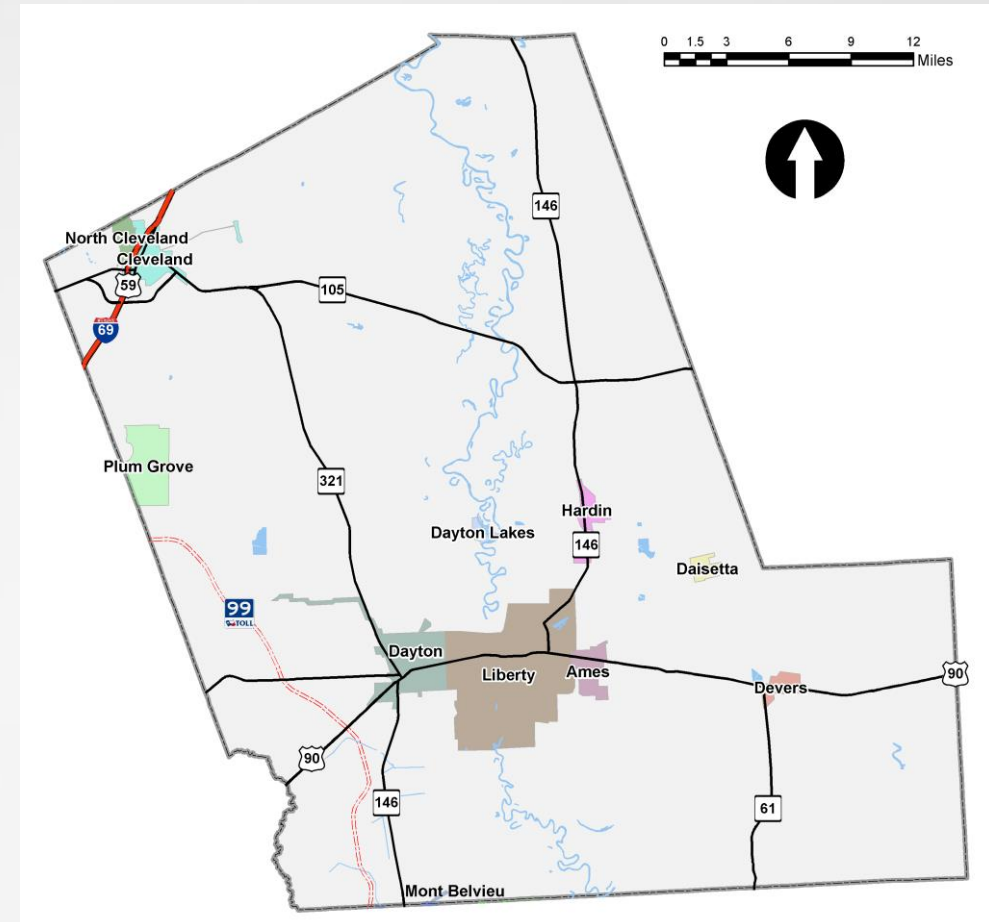
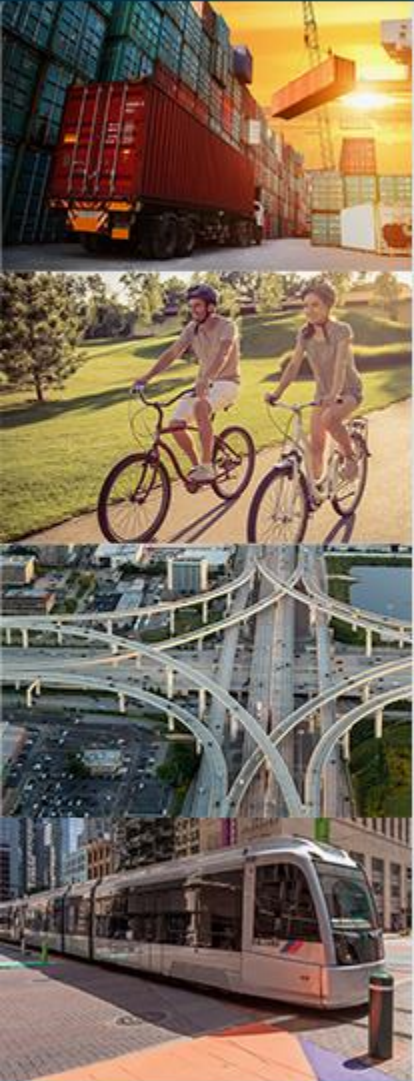


# Project Overview

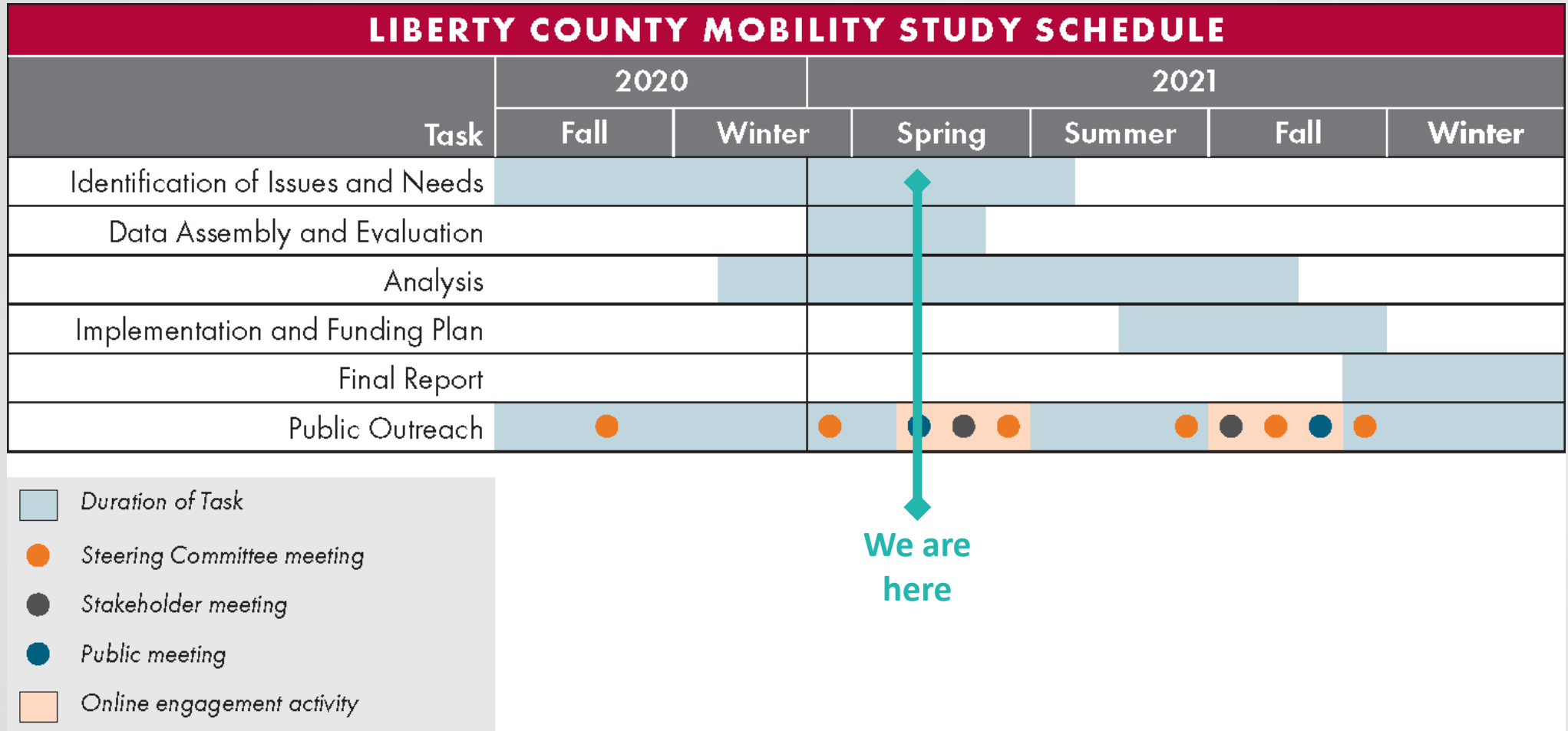
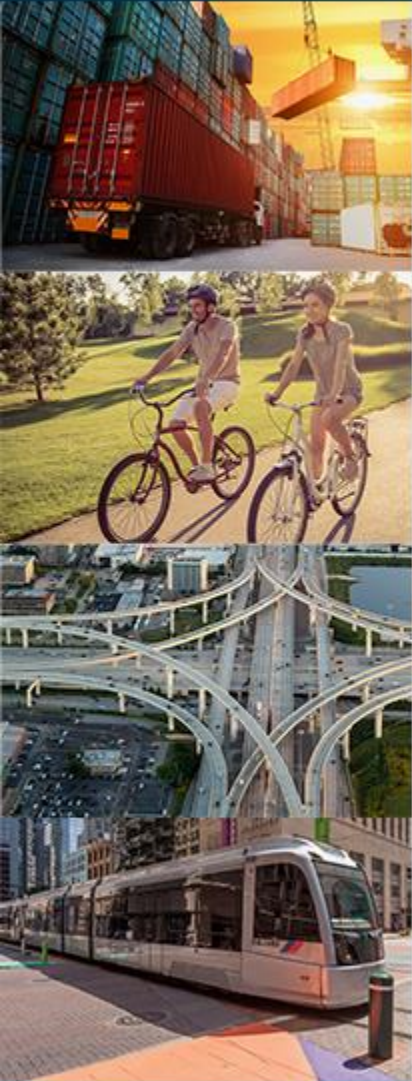


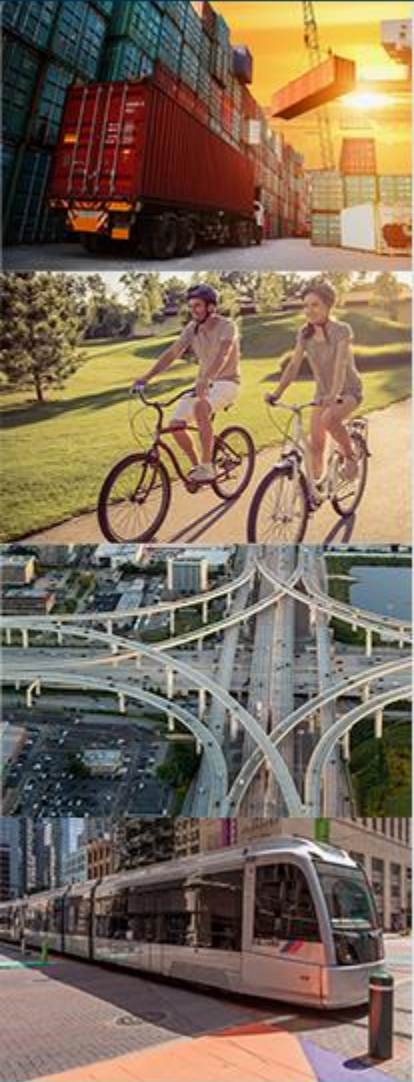
# Purpose and Study Area

- Analyze the existing transportation network
- Consider existing and future land use and growth scenarios
- Recommend ways to improve transportation mobility for residents, businesses and visitors now and in the future



# Schedule





# Vision & Goals



# Vision



The vision of the Liberty County Mobility Study is to address County needs through multimodal transportation, development, and economic policy, while meeting H-GAC's goals of mobility, safety, and enabling economic opportunity.



# Goals and Metrics



## Goals (Metrics)

1. Provide **MOBILITY** solutions and travel options for daily travelers  
(connectivity, gaps, multimodal)
2. Increase **FREIGHT** traffic efficiency  
(truck travel time, delay, routes and stops, railroad crossings)
3. Increase **EFFICIENCY** at high-congestion corridors and intersections  
(volume/capacity, LOS, travel time)
4. Improve **SAFETY** at high-crash segments and intersections  
(crash rates, number of conflict points)
5. Enhance **ECONOMIC** opportunity in focus areas  
(cross section, access management, economic impact)



# H-GAC Goals

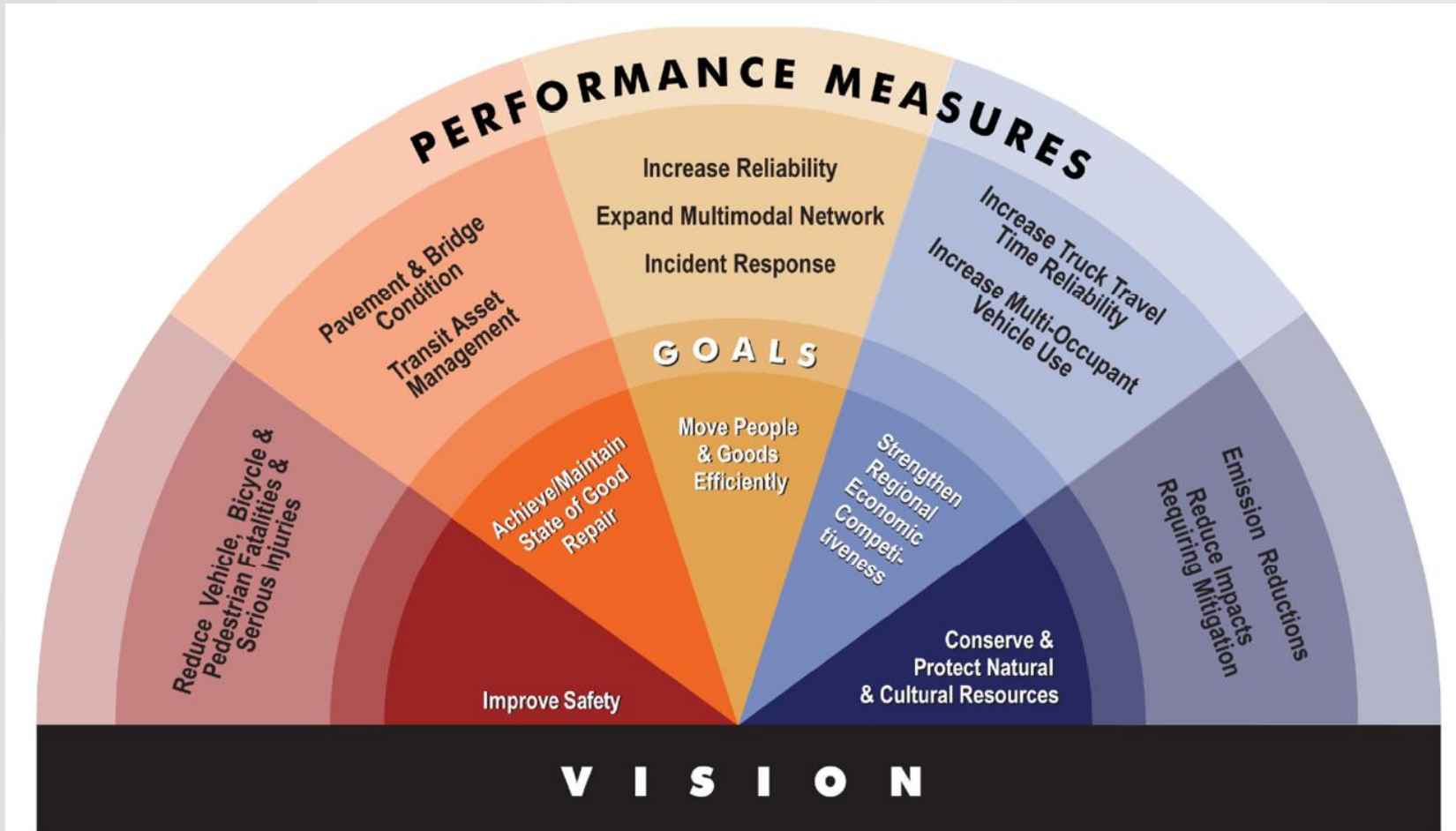
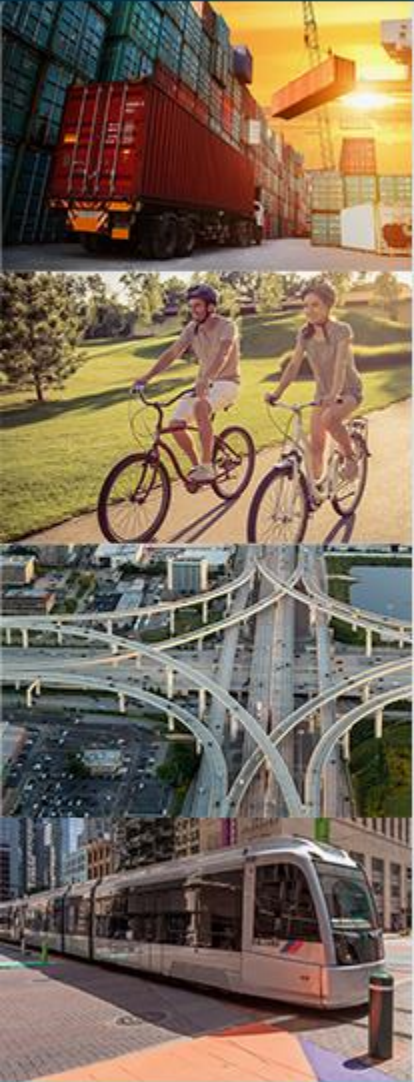


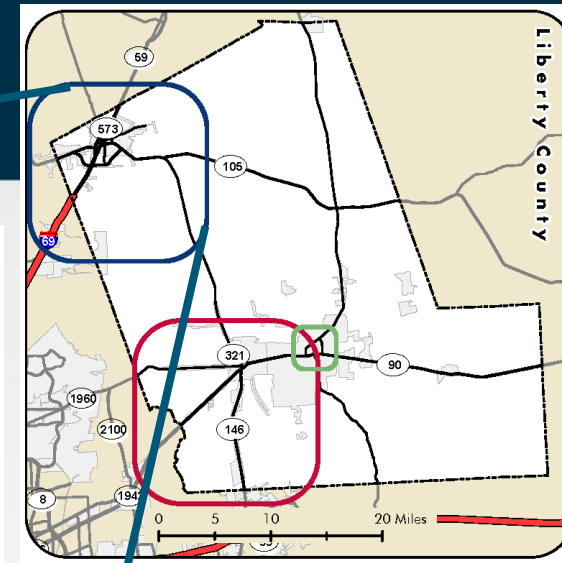
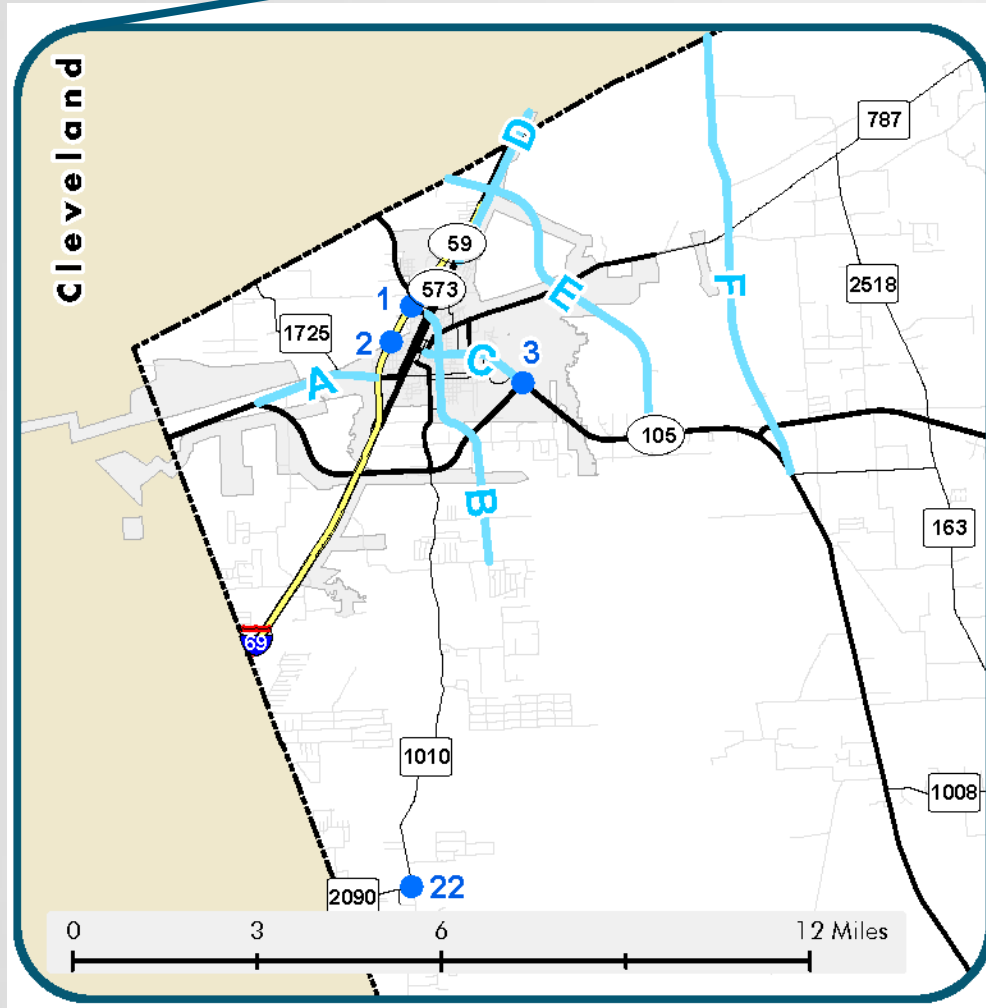
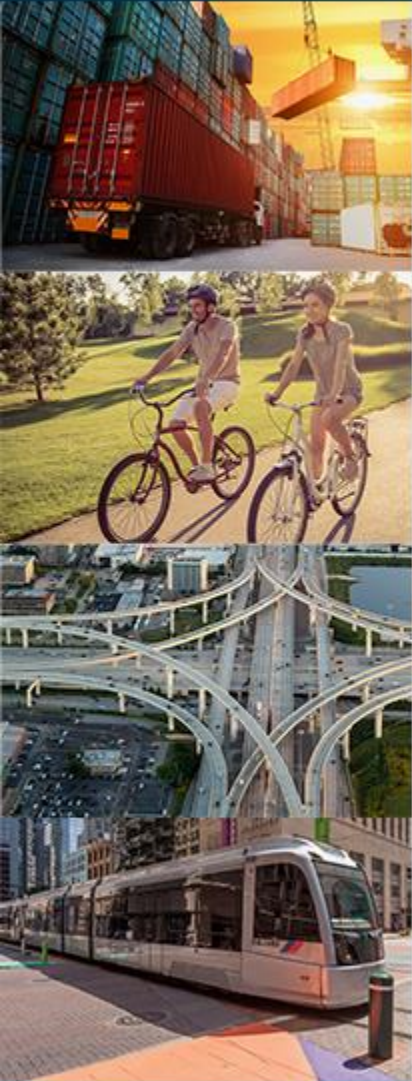
Figure 2-1: 2045 RTP Vision, Goals, and Performance Measures





# Identified Issues & Needs

# Cleveland

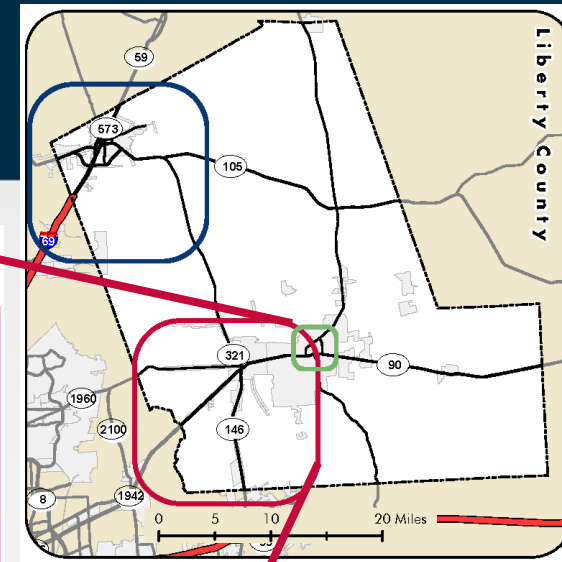
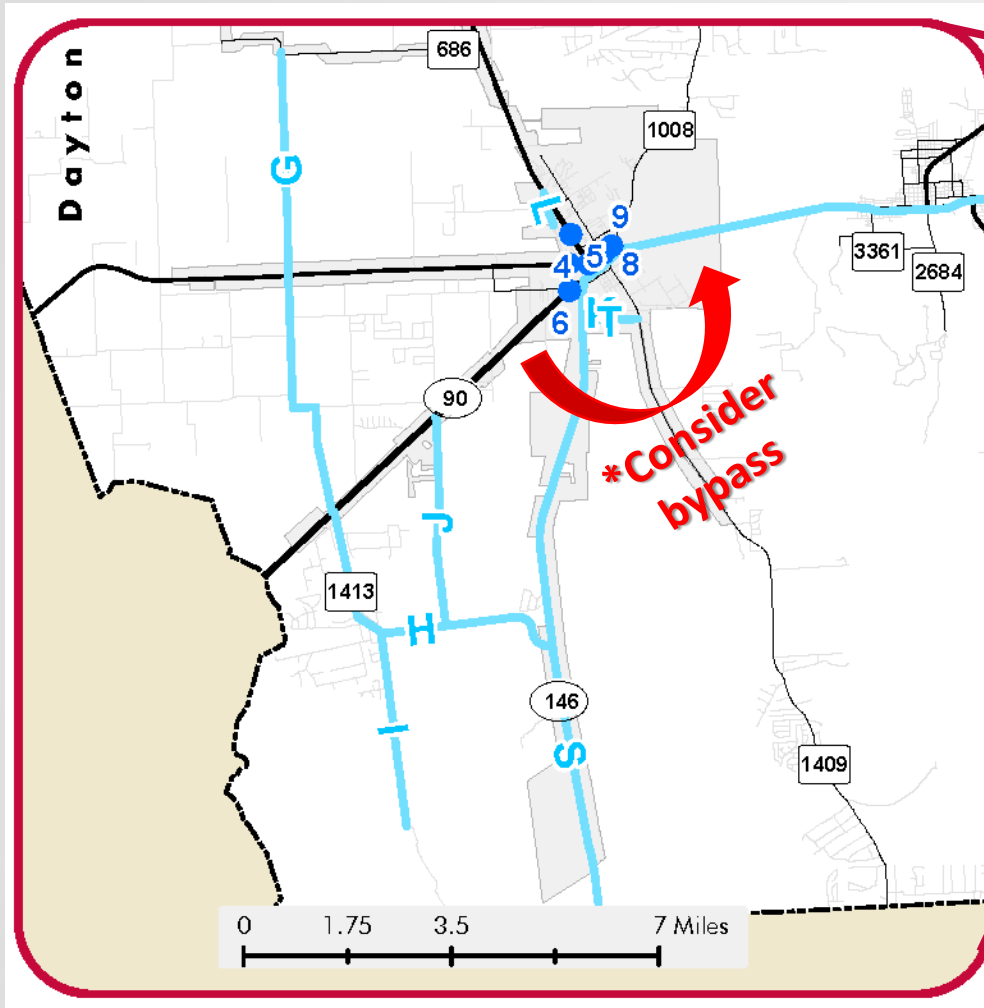
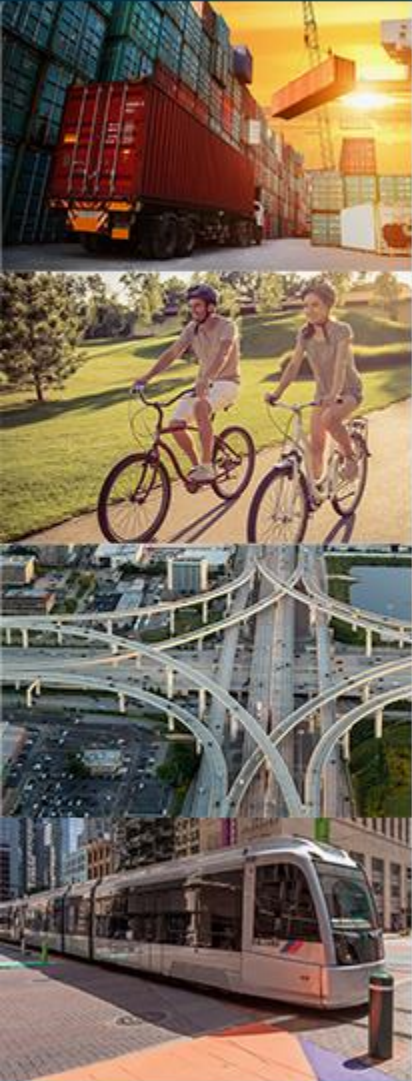


- Liberty County Roadways**
- Interstate
  - Freeway/Expressway
  - Principal Arterial
  - Minor Arterial
  - Major Collector
  - Local
  - Study Corridors
  - Study Intersections
  - Liberty County
  - Cities

ID	Name
A	SH 105 - SH 105 to US 59
B	FM 2025 - US 59 to Miller Wilson Rd
C	Houston Ave - FM 787 to SH 105
D	N Travis Ave - Travis Ave to N County Limits
E	CR 2243 - N County Limits to SH 105
F	CR 2204/2239 - N County Limits to SH 321

ID	Intersection
1	FM 2025 at US 59
2	US 59 and UPRR
3	SH 105 and Hwy 321 East
22	FM 1010 and FM 2090

# Dayton



Liberty County Roadways

- Interstate
- Freeway/Expressway
- Principal Arterial
- Minor Arterial
- Major Collector
- Local
- Study Corridors
- Study Intersections
- Liberty County
- Cities

## ID Name

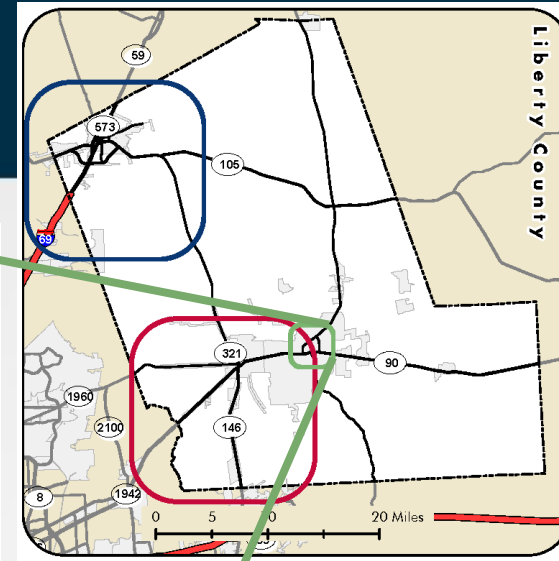
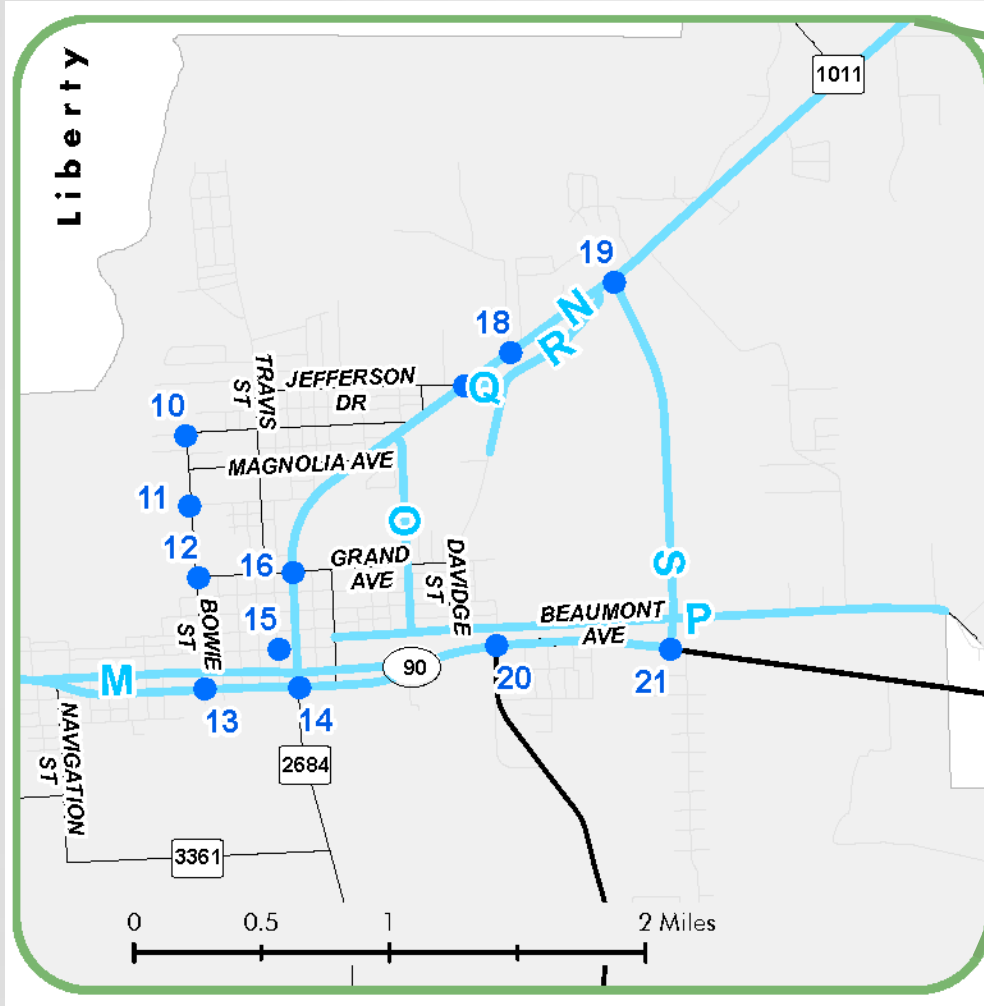
G	CR 604/615 - FM 686 to US 90
H	FM 1413 - US 90 to SH 146
I	CR 486 - FM 1413 to 17,419' S
J	CR 491 - US 90 to FM 1413
K	Lovers Ln - SH 146 to Lovers Ln
L	Waco St - Tram Rd to Waco St
S	SH 146 - N County Limits to S County Limits
T	Brown Rd - SH 146 to FM 1409

## ID Intersection

4	FM 321 and Linney Street
5	FM 1960 and Waco Street
6	Waco Street and US 90
7	FM 1960 and SH 321
8	Winfree Street and Clayton Street
9	Lowie Street at Clayton Street



# Liberty



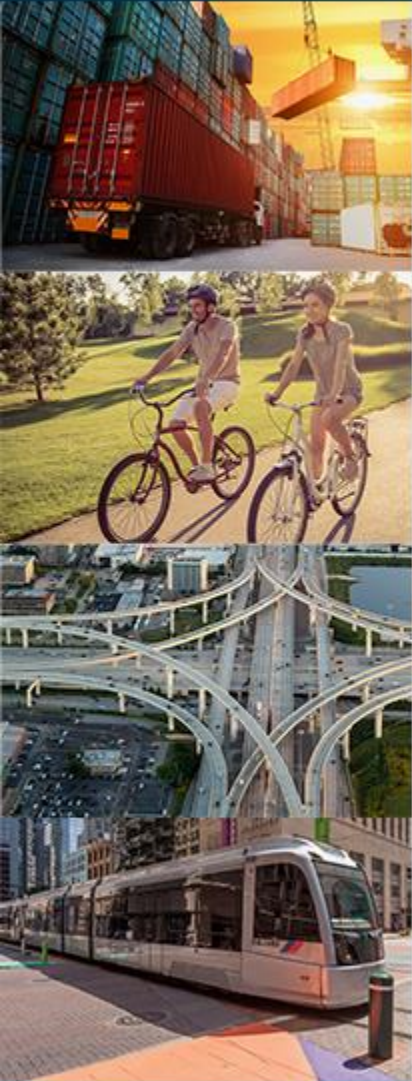
**Liberty County Roadways**

- Interstate
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- Study Corridors
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- Liberty County
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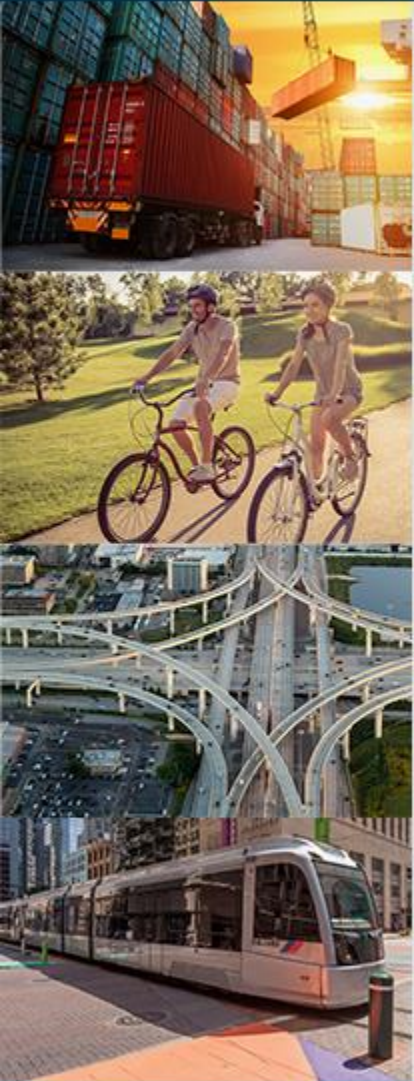
ID	Name
M	MLK Jr Dr - US 90 to US 90
N	Main St - SH 146 to US 90
O	Texas St - Main St to Beaumont Ave
P	Beaumont Ave - San Jacinto St to E City Limits
Q	Jefferson Dr - Main St to Lakeland Dr
R	Lakeland Dr - Woodspring Rd to Main St
S	SH 146 - N County Limits to S County Limits

ID	Intersection
10	Bowie and Edgewood
11	Bowie Street and Monta Street
12	Bowie Street and Grand Avenue
13	US 90 and Bowie Street
14	US 90 and Main Street
15	Sam Houston Street and Trinity Street
16	Main Street and Grand Avenue
17	Jefferson Drive at Main Street
18	N Main Street and Cook Road
19	SH 146 and Main Street
20	US 90 and Independence
21	US 90 and SH 146

# Toolbox



ROADWAY (R)	<p>MEDIAN (M)</p> <p>M1-CONSTRUCT RAISED MEDIAN (R/RO ACCESS)</p>	<p>M2-CONSTRUCT S-MEDIAN (LI ACCESS)</p>	<p>M3-CONSTRUCT REVERSE S-MEDIAN (LO ACCESS)</p>	
INTERSECTION (I)	<p>MEDIAN (M)</p> <p>M4-CONSTRUCT TURBO-T (L/LO ACCESS)</p>	<p>M5-CONSTRUCT MEDIAN OPENING (FULL ACCESS)</p>	<p>M6-TWLTL TO REMAIN (FULL ACCESS)</p>	
SIGNAL (S)	<p>DRIVEWAY (D)</p> <p>D1-CLOSE DRIVEWAY</p>	<p>D2-PROVIDE SHARED ACCESS (CONSOLIDATE DRIVEWAYS)</p>	<p>D3-PROVIDE SIDEWALK</p>	<p>D4-DRIVEWAY MODIFICATION (RO ONLY ACCESS)</p>



# Existing Conditions



# Roadway Network

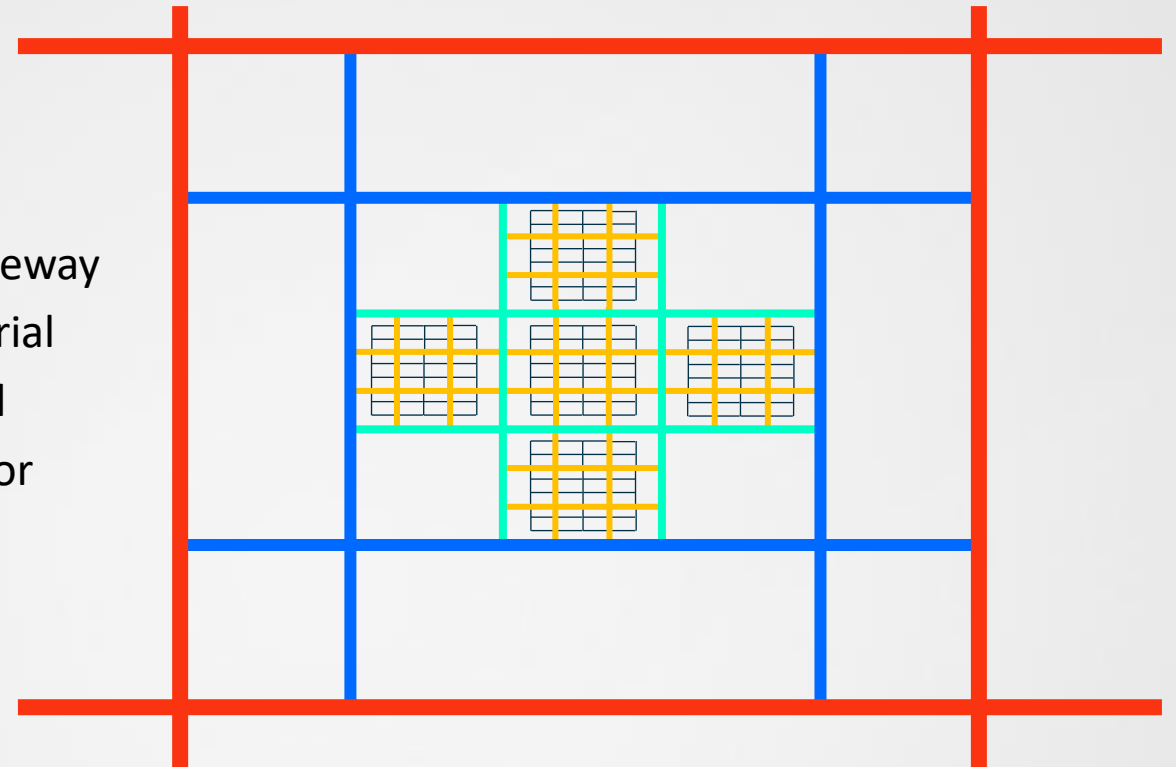


Higher speed, more capacity,  
longer distance

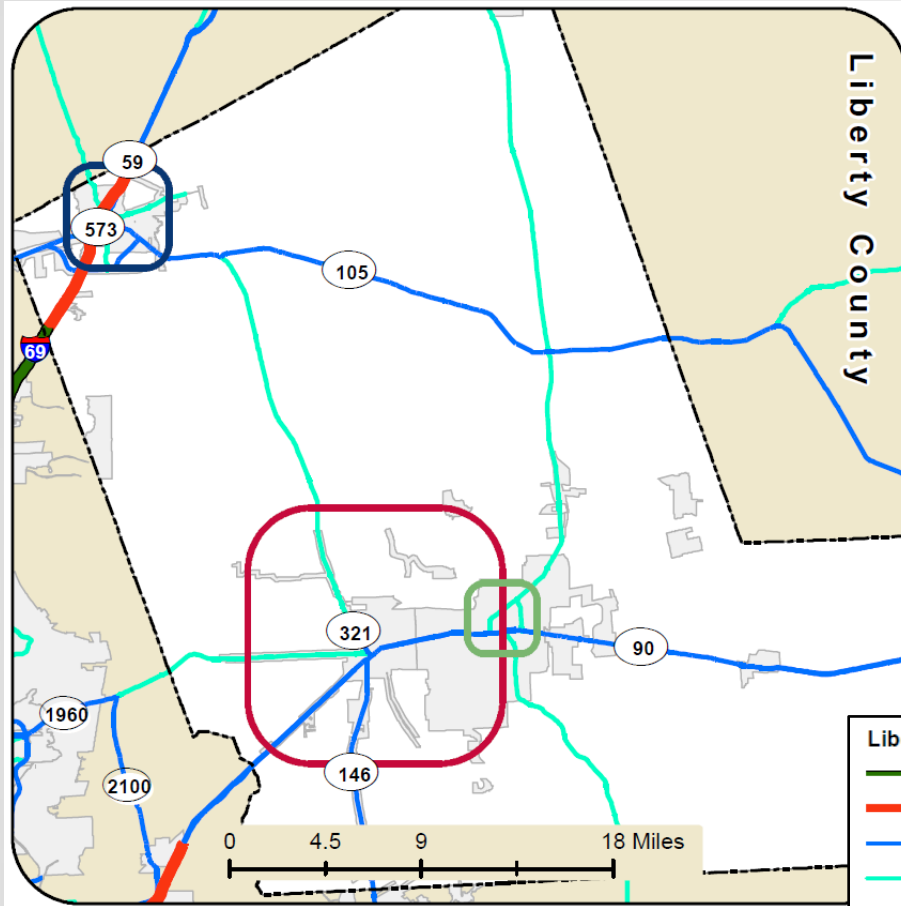
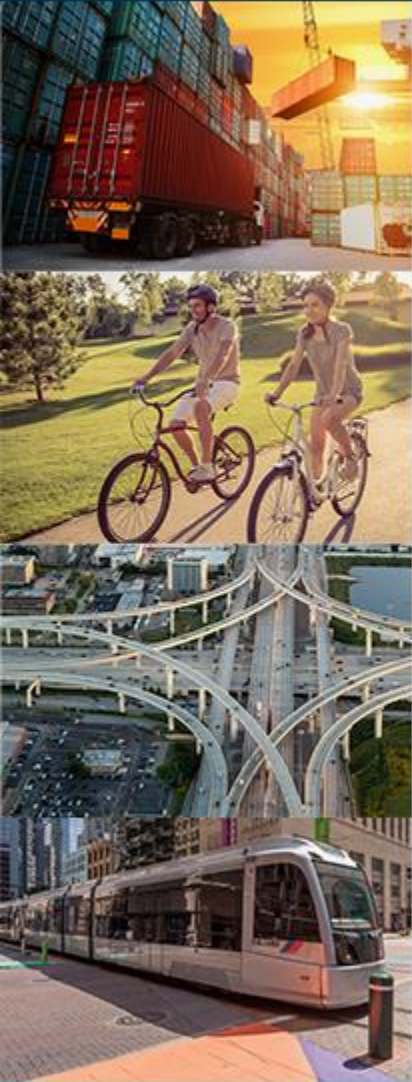


- Interstate/Freeway
- Principal Arterial
- Minor Arterial
- Major Collector
- Local

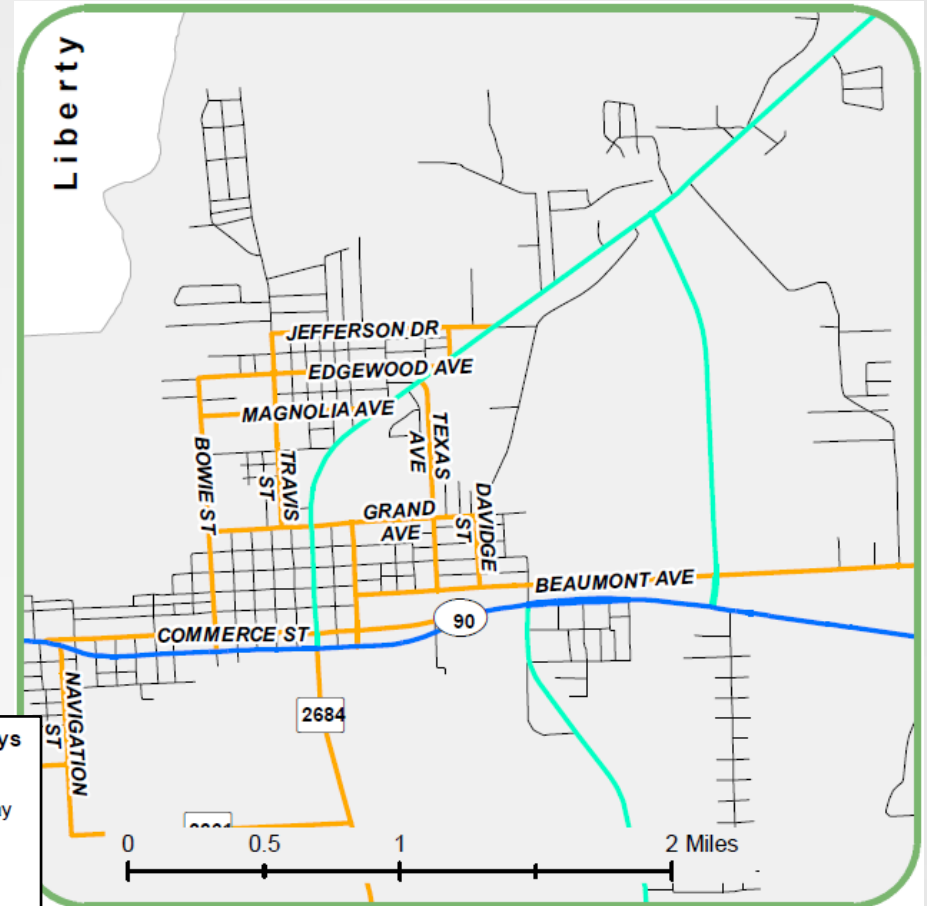
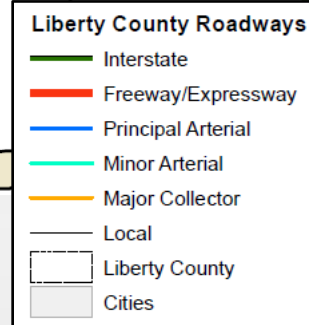
More access



# Roadway Network – Liberty County



Source: TxDOT Roadway Inventory



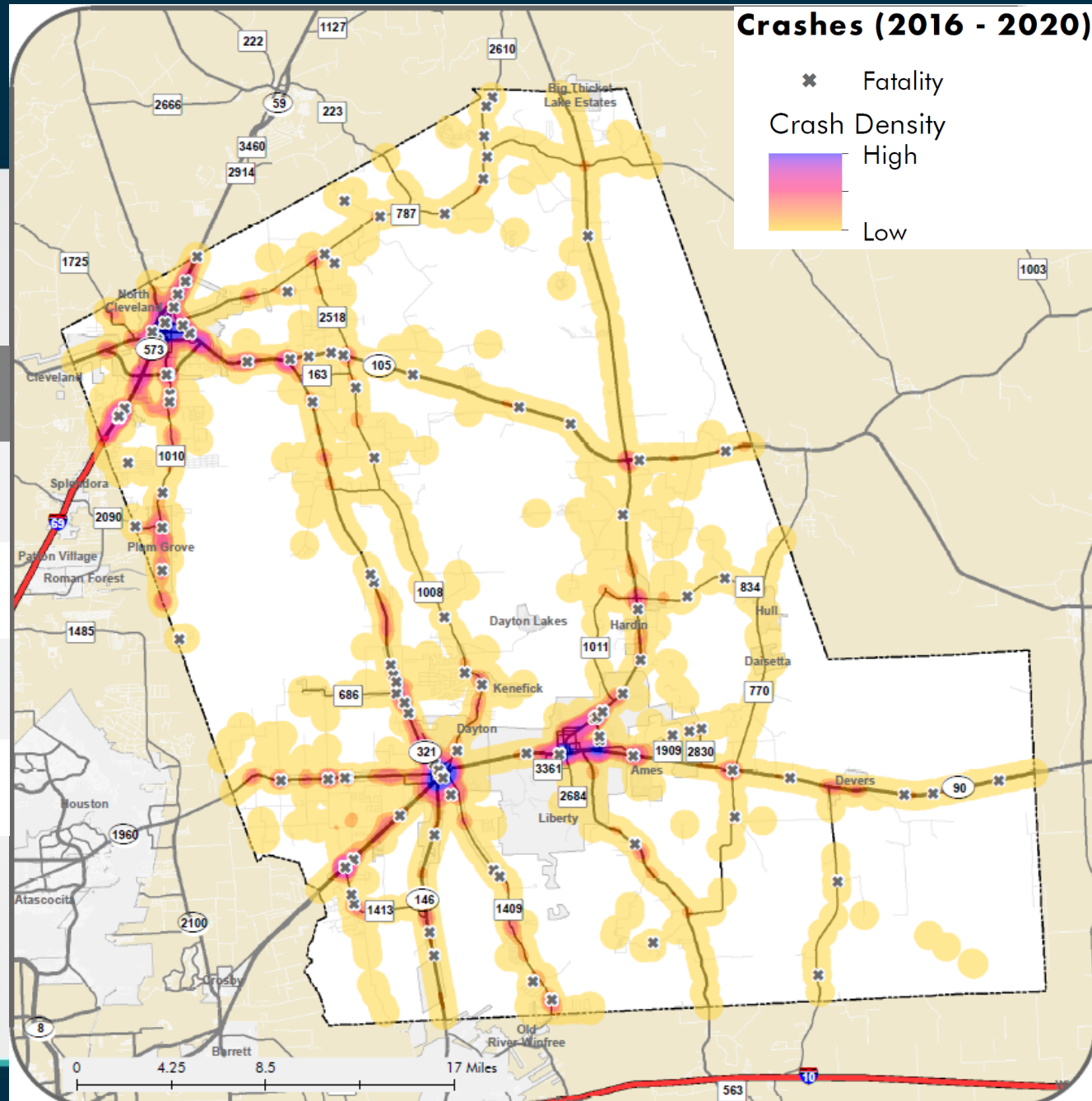


# Crash Data



	Cleveland	Dayton	Liberty	Liberty County
<i>Total Crashes</i>	1,449	1,747	896	7,046
<i>Total Fatalities</i>	11	23	9	116
<i>City Fatalities / City Total Crashes</i>	0.8%	1.3%	1.0%	1.6%
<i>City Fatalities / County Fatalities</i>	9.5%	19.8%	7.8%	100.0%

Source: TxDOT CRIS Data, 2016 - 2020



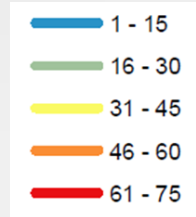


# Bicycle Activity



Source: TxDOT Strava data

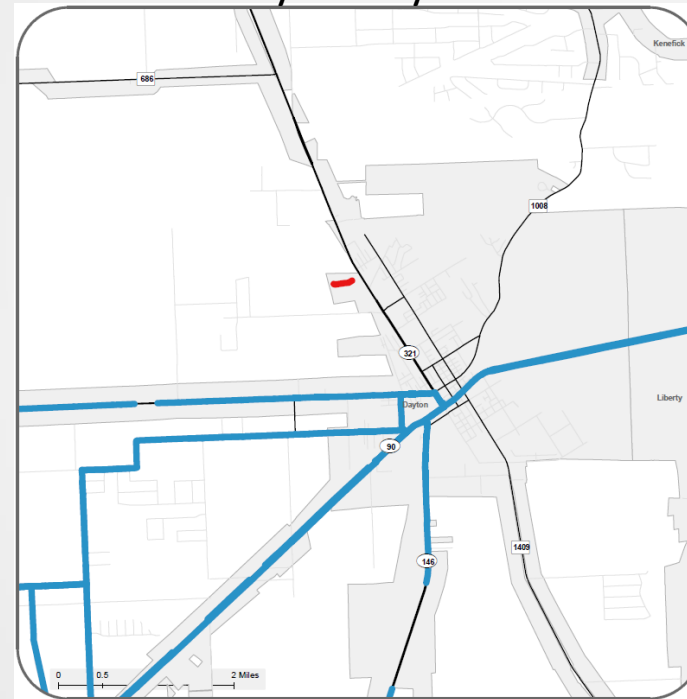
## Average Daily Bicycle Trips



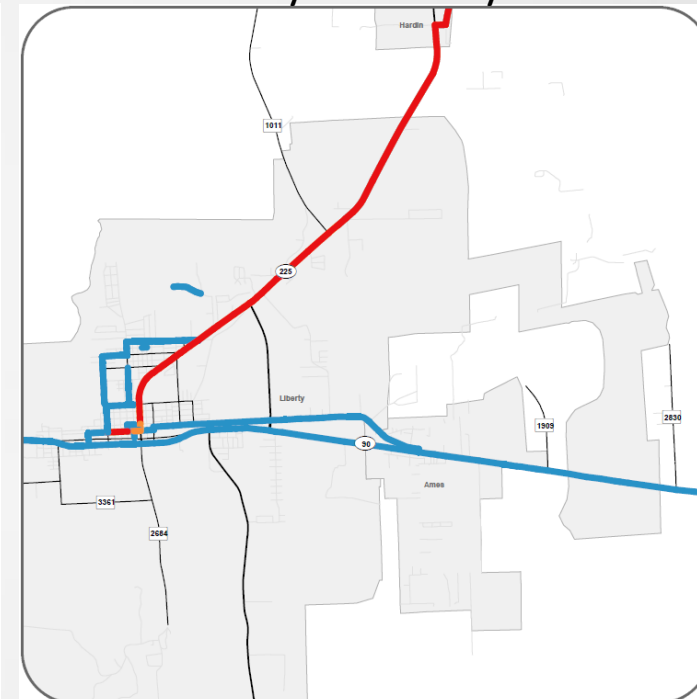
### City of Cleveland



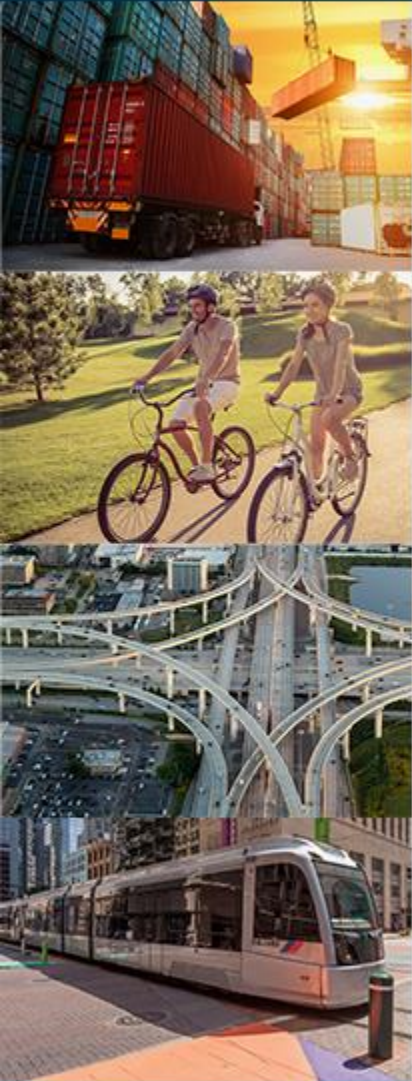
### City of Dayton



### City of Liberty



# Pedestrian Activity



Source: TxDOT Strava data

## Average Daily Pedestrian Trips



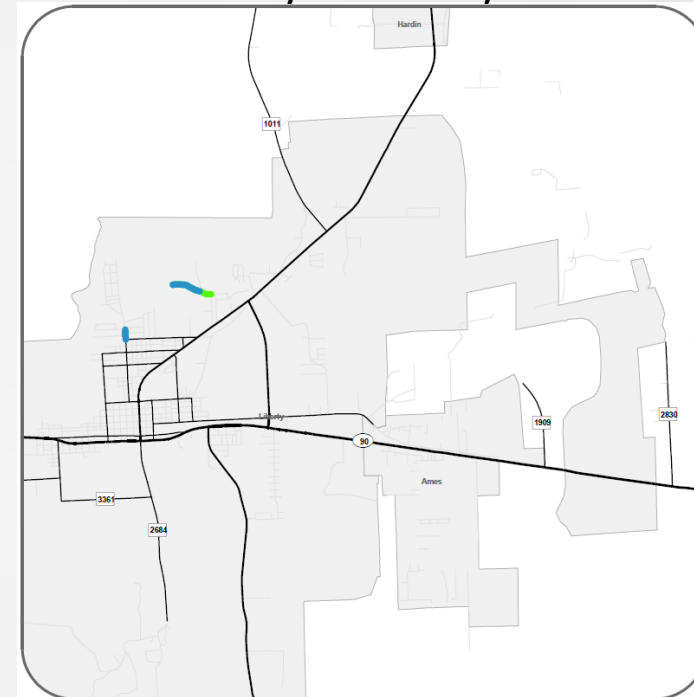
### City of Cleveland



### City of Dayton



### City of Liberty



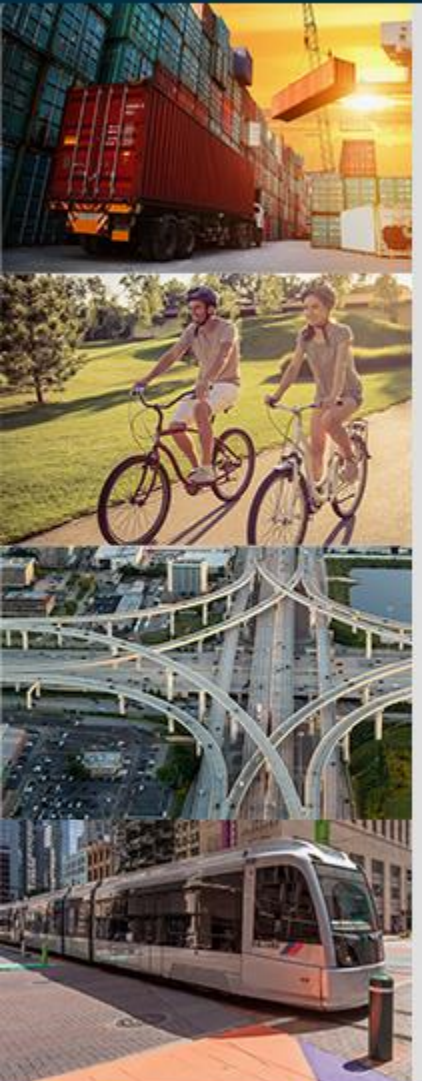
# Transit

- Cleveland Fixed Route
- Dayton Circulator
- Liberty & Ames Circulator

Source: H-GAC Open Data, TxDOT Roadway Inventory



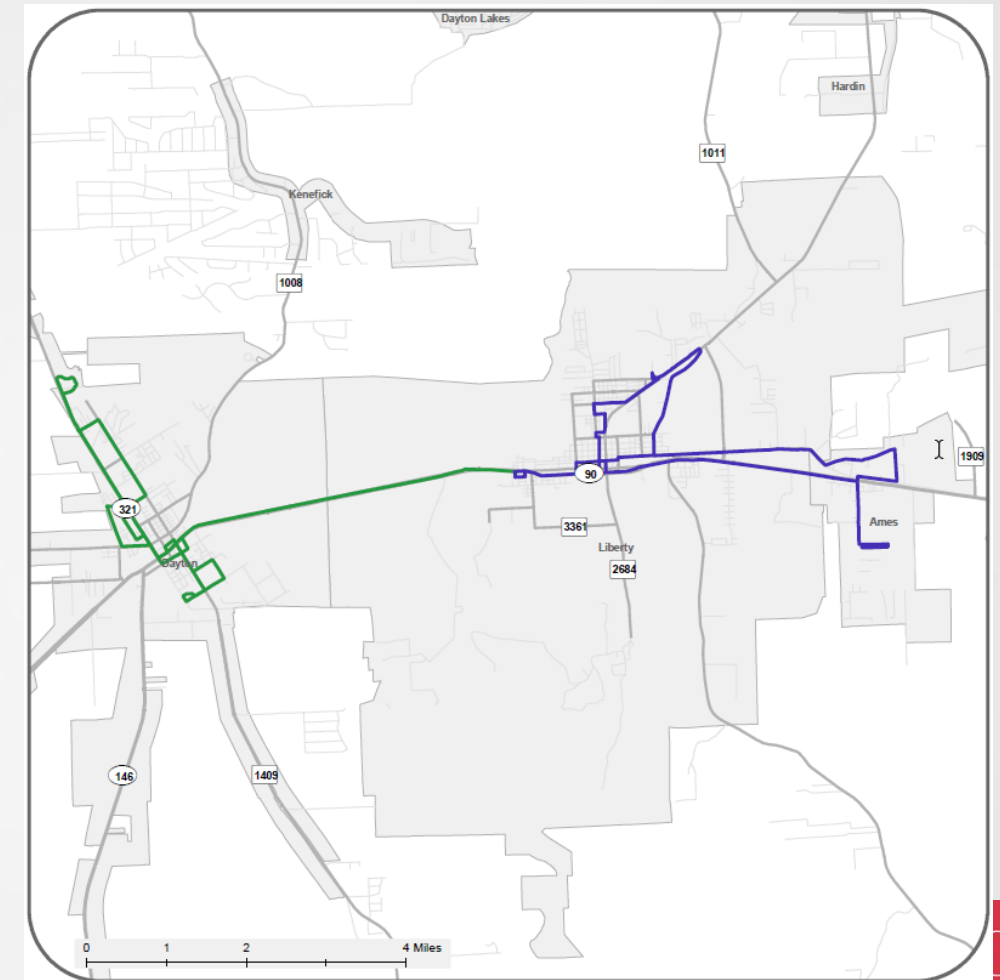
## BRAZOS TRANSIT DISTRICT



### City of Cleveland



### Cities of Dayton and Liberty

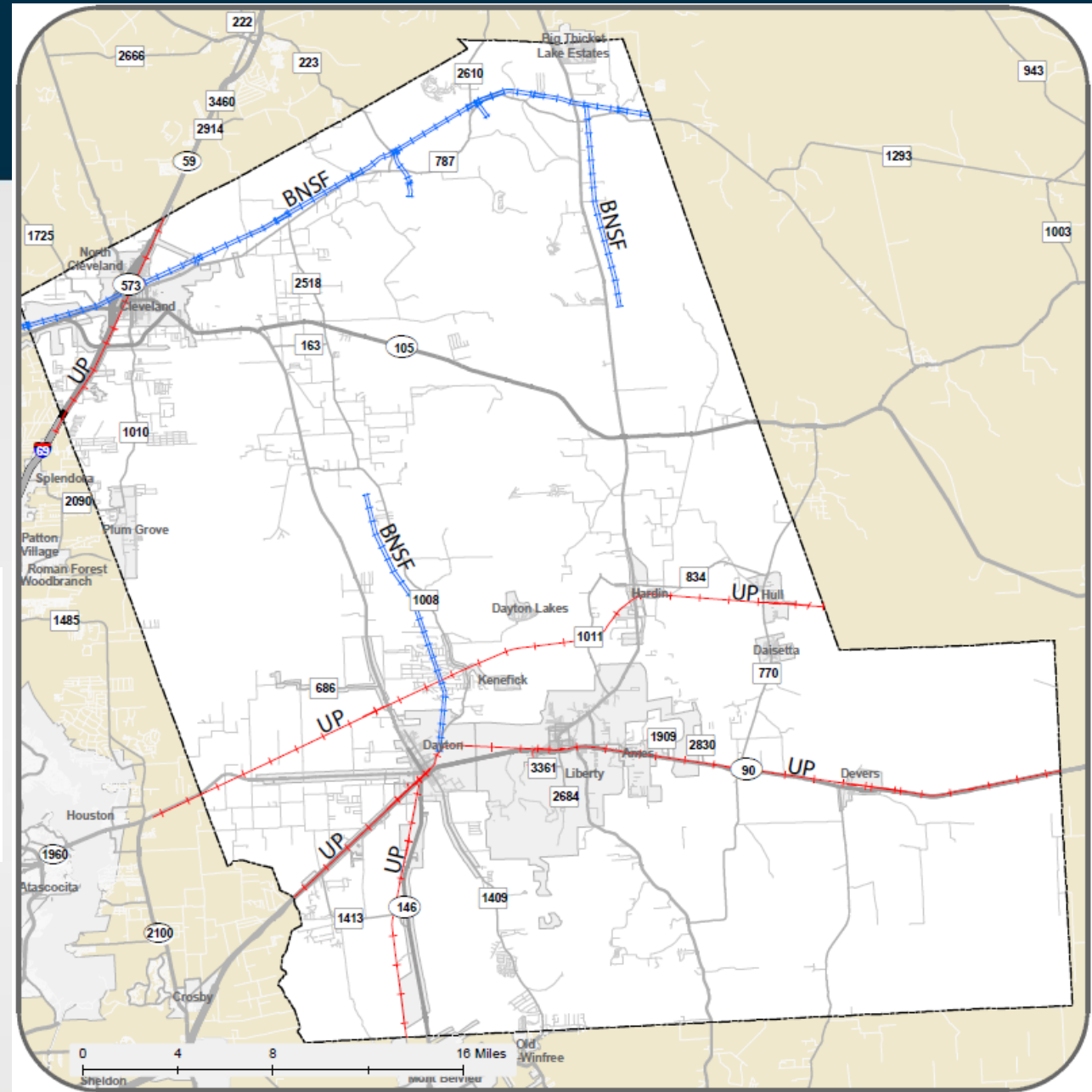
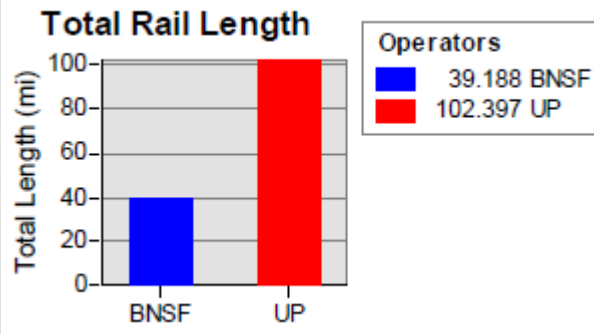
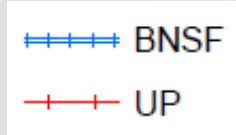




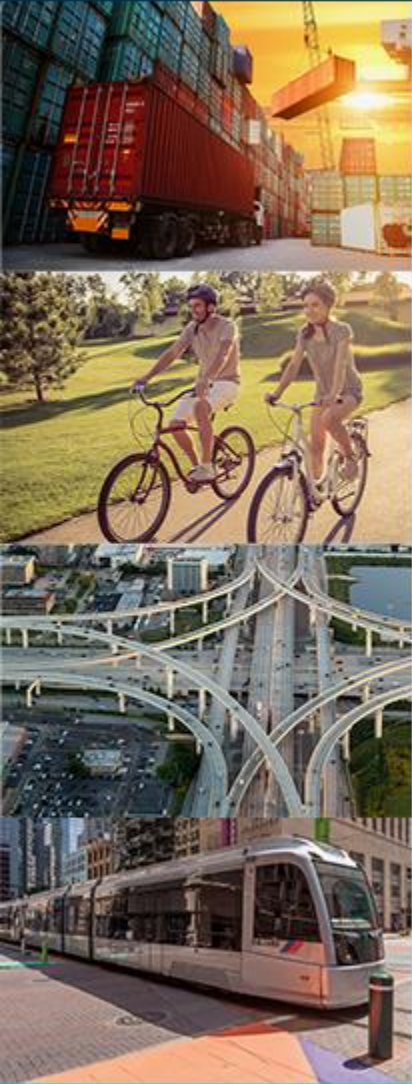
# Railroads



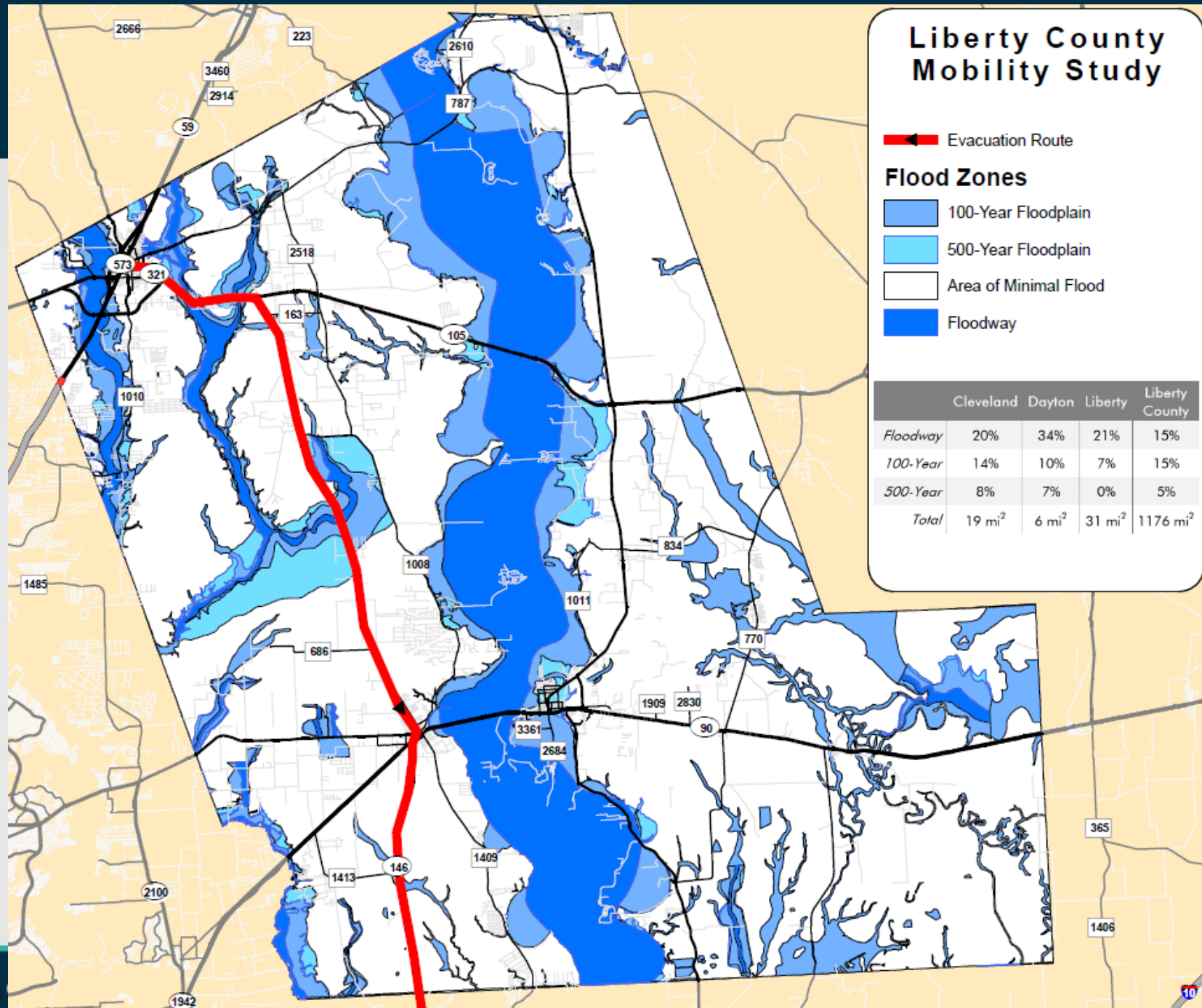
Source: H-GAC Open Data



# Flood and Evacuation

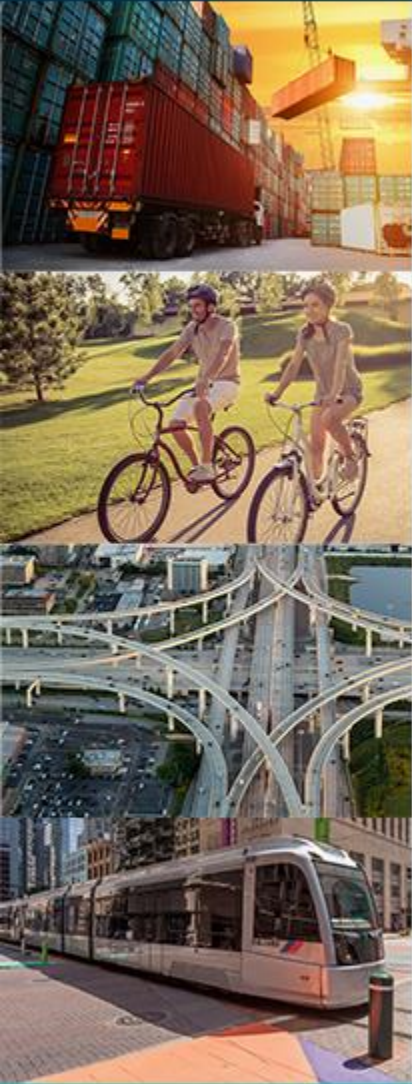


Source: 2015 FEMA Flood Data, H-GAC Open Data

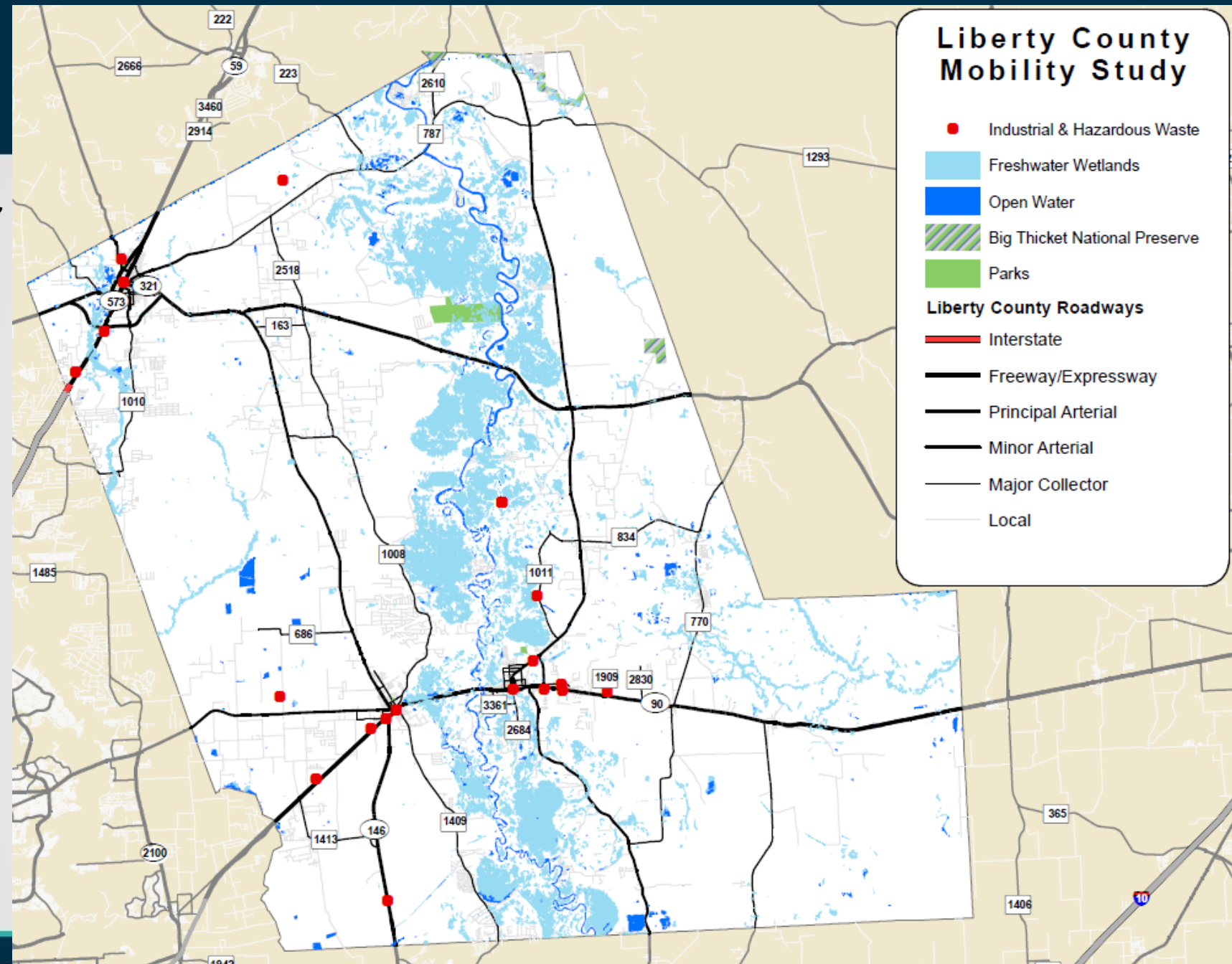




# Environment



Source: TCEQ Open Data,  
National Park Service,  
H-GAC Open Data





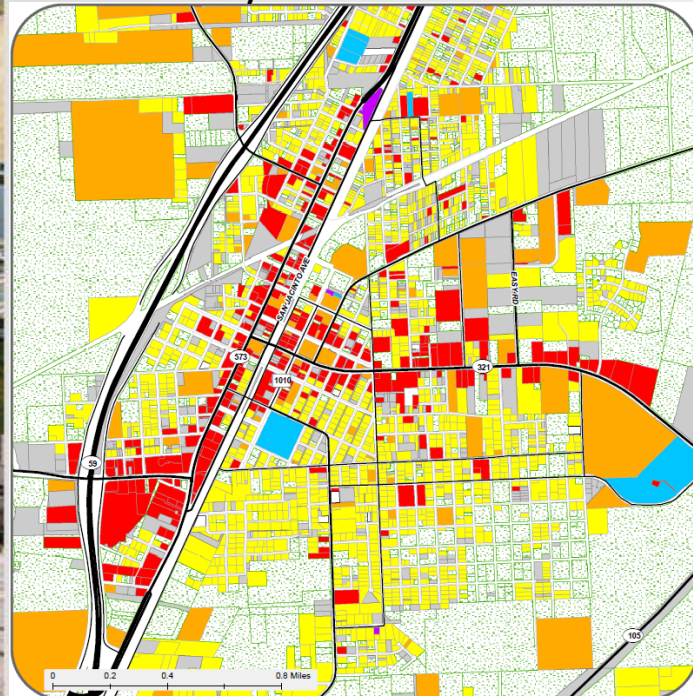
# Land Use



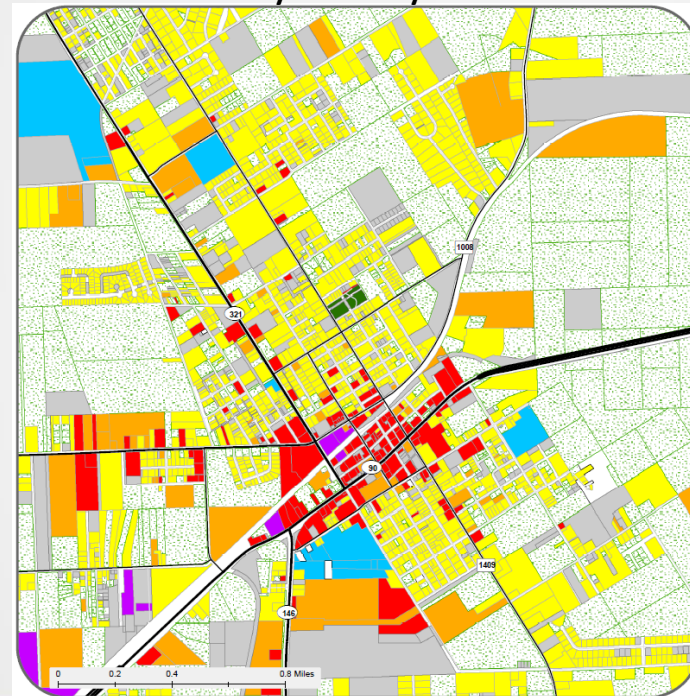
Source: H-GAC Regional Land Use Information System 2019

	Cleveland	Dayton	Liberty	Liberty County
<i>Commercial</i>	1.24%	0.33%	0.85%	0.14%
<i>Gov / Med / Edu</i>	0.36%	0.31%	0.08%	0.08%
<i>Industrial</i>	0.53%	0.69%	0.38%	0.55%
<i>Multiple</i>	7.14%	4.45%	5.62%	5.85%
<i>Parks / Open Space</i>	0.74%	0.05%	6.30%	3.82%
<i>Residential</i>	6.20%	5.44%	4.22%	4.54%
<i>Undevelopable</i>	<b>9.73%</b>	<b>21.79%</b>	<b>26.05%</b>	14.15%
<i>Unknown</i>	0.04%	0.53%	0.04%	0.05%
<i>Agricultural / Vacant</i>	<b>74.02%</b>	<b>66.41%</b>	<b>56.46%</b>	70.83%

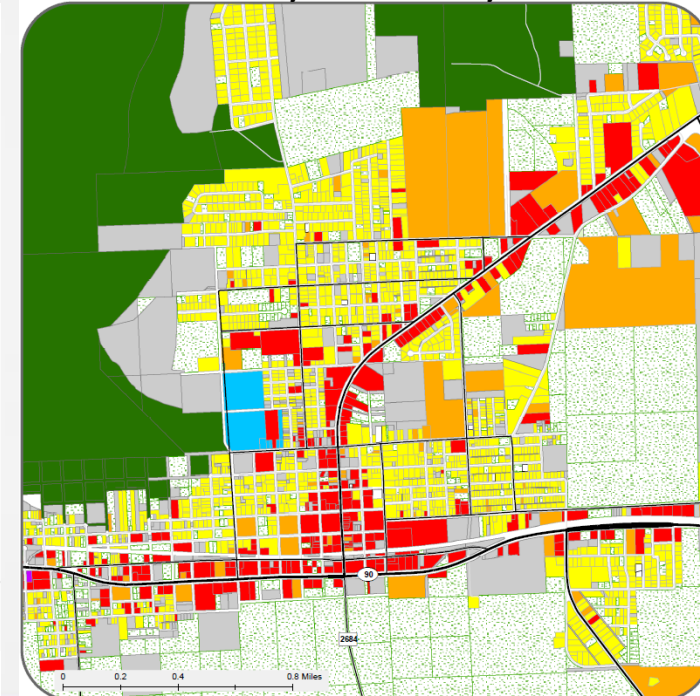
City of Cleveland



City of Dayton



City of Liberty





# Proposed Development

## Cleveland ISD School Sites

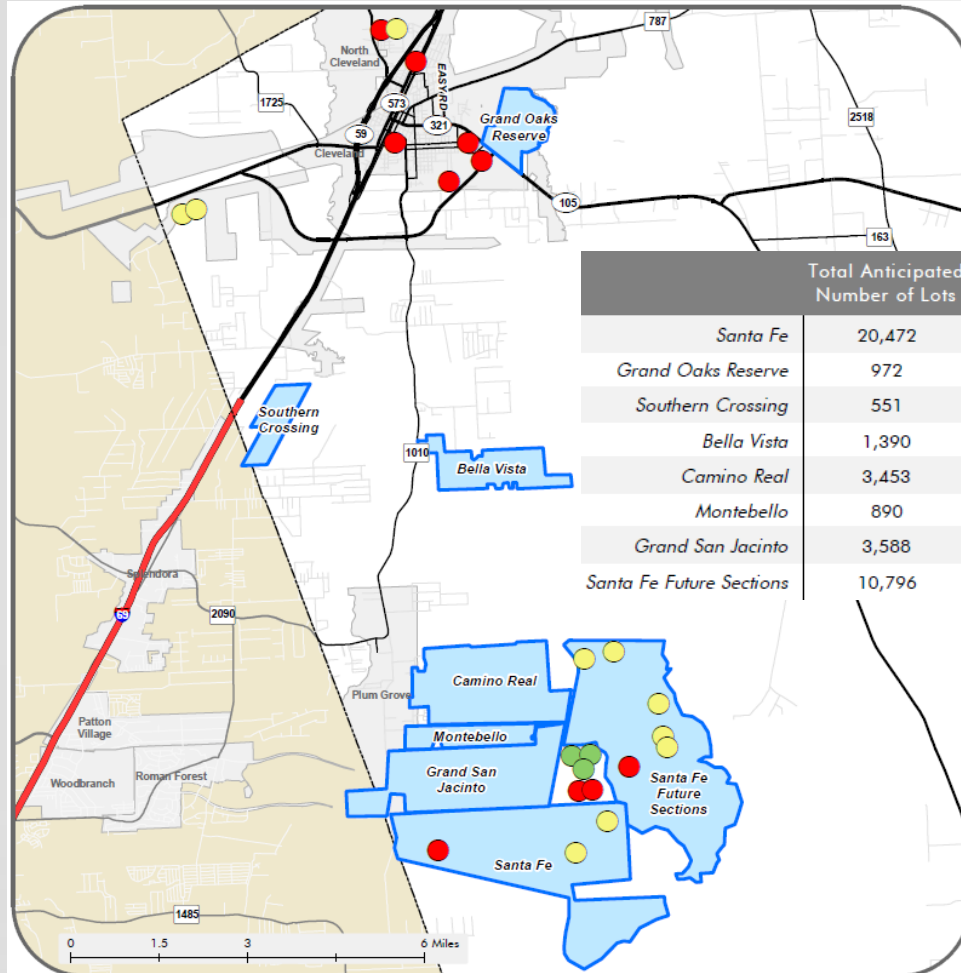
- Existing
- Proposed
- Potential

Development Activity

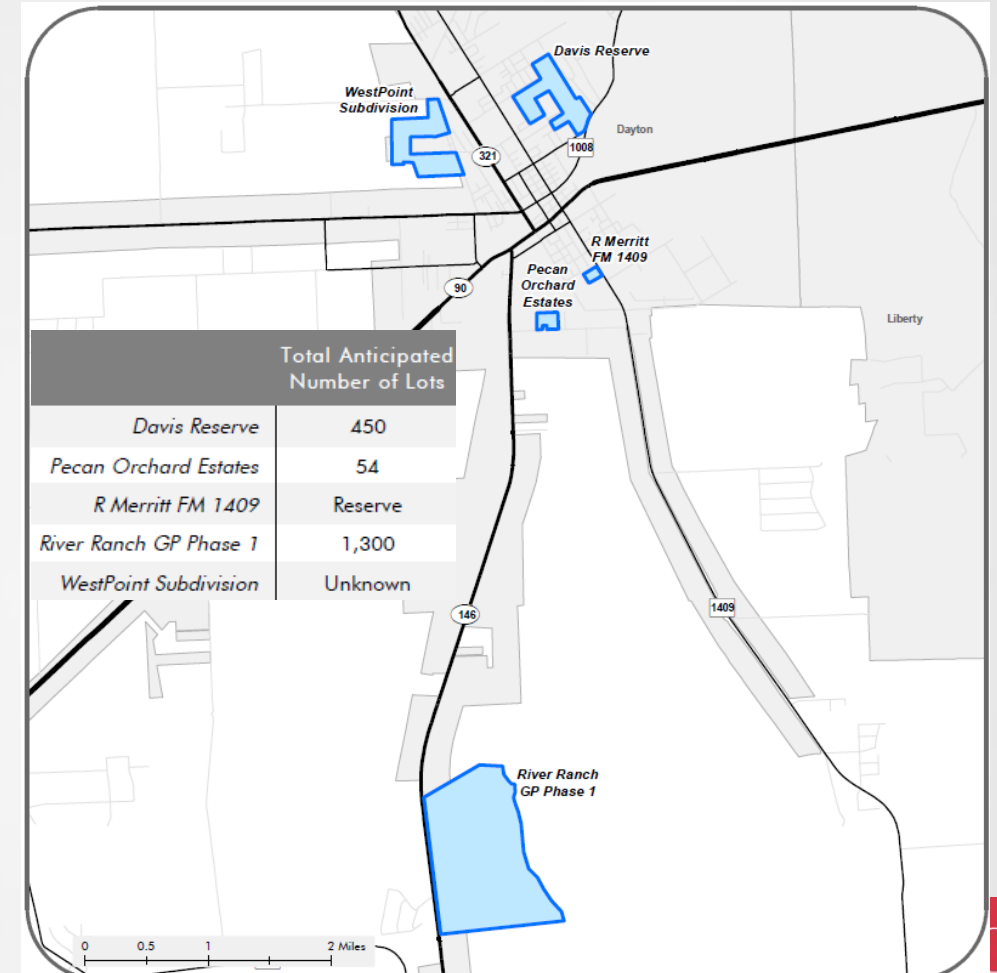
Source: Cleveland ISD, City of Dayton

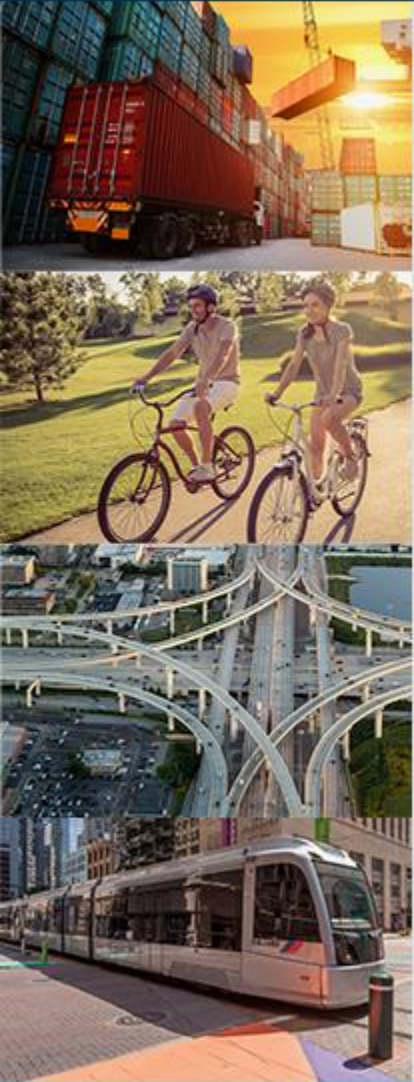


## City of Cleveland



## Dayton Area





# Your Role



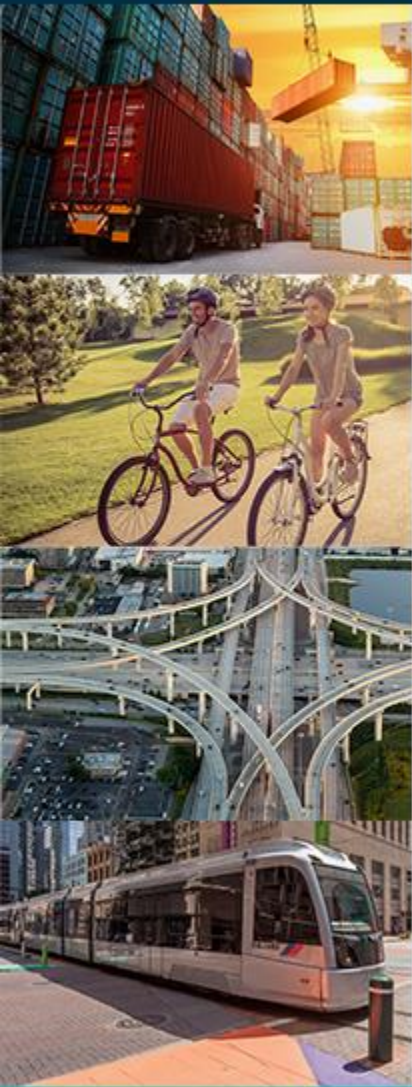
# Your Role

- Stay involved
  - Project website – [engage.H-GAC.com](https://engage.H-GAC.com)
- Tell us where to improve!
  - Public commenting tools
  - Upcoming public meetings

What happens with my feedback?



# Public Commenting Demonstration



← → ↻ 🏠 <https://engage.h-gac.com> ⌵ 🔒 ⚙️ ☆ ⬇️ 📄 🗂️ 🌐 ☰

Select Language

**H-GAC** | Houston-Galveston Area Council

Home  Sign in Register

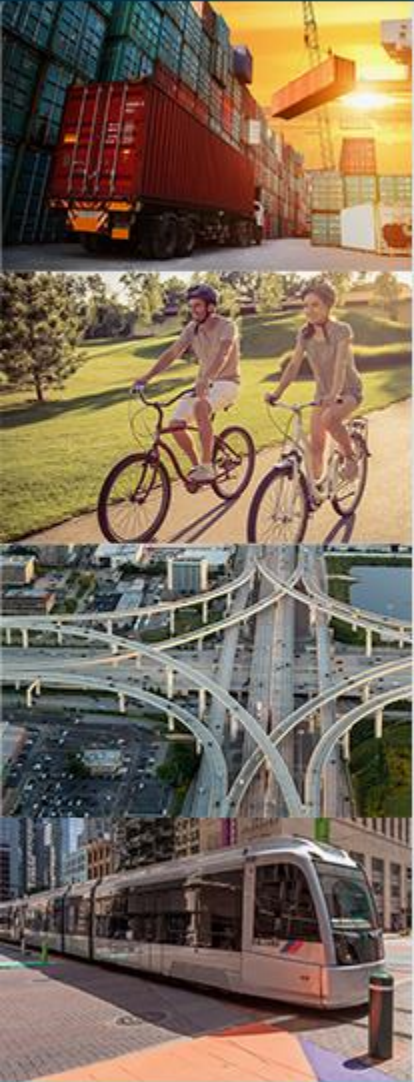
## Engage H-GAC

Welcome to Engage H-GAC, our new online engagement platform! The Houston-Galveston Area Council encourages and welcomes its residents to be involved in all aspects of local planning efforts. Getting involved begins with a click. Below are several projects you can participate with H-GAC. Just click on what interests you and get started today.

[Register Here](#)

A map of the Houston-Galveston Area Council region, showing counties: Waller, Montgomery, Liberty, Harris, Chambers, Fort Bend, Galveston, Brazoria, Wharton, and Matagorda. Major highways like I-10, I-270, I-45, and I-67 are marked.



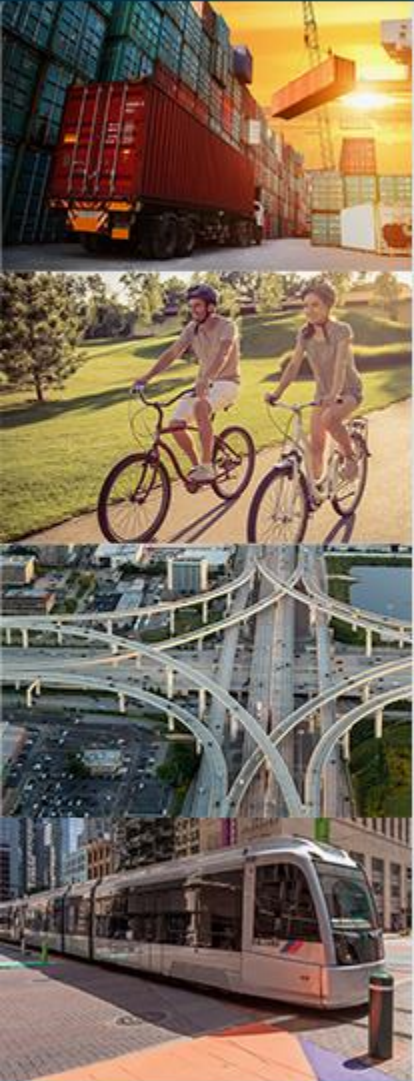


# Next Steps



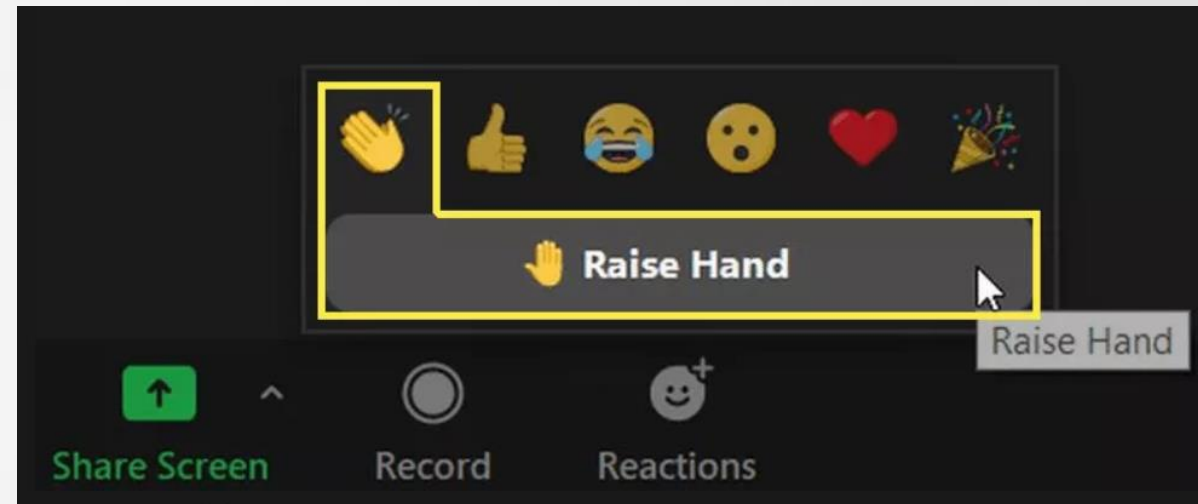
# Next Steps

- Review public input received
- Analyze issues and make recommendations
- Continued collaboration with Cleveland, Dayton, Liberty and County representatives
- Public Meeting #2 – Fall 2021
- Create implementation and funding plan
- Final report



# Today's Process: Asking Questions

- All attendees except presenters are on mute during the meeting
- Please limit comments to 3 minutes each
- During Question and Answer portions of the meeting, if you would like to speak:
  - **Raise Hand in Zoom Meeting**  
(During a meeting, navigate to the bottom options bar in your video screen and click **Reactions and Raise Hand**)  
  
If you call and attending through toll-free number, Press \*9 to raise hand
  - **Staff will unmute you to speak**
  - Click *Raise Hand* again to **Lower Hand** after you speak



# Questions and Answers

*What questions do you have for us?  
Please use the “chat” feature.*





# Thank You! Further Discussion

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