

**MEETING OF THE RTP SUBCOMMITTEE
HOUSTON-GALVESTON AREA COUNCIL**

MEMBERS PLEASE USE THE TEAMS INVITATION

TELECONFERENCE PARTICIPATION VIA MICROSOFT TEAMS

[+1 346-262-0140](tel:+13462620140) United States, Houston (Toll)

Conference ID: 641 945 004#

November 10, 2021

1:30PM

AGENDA

1. Call to Order
Roll Call Attendance
2. Acceptance of Minutes
From meeting of October 13, 2021
3. Discussion of the 2045 RTP Updating Strategy
 - a. Outreach Strategy – Visioning Outreach Update
 - b. Call for Projects – Alignment of Schedules
 - c. Transportation Assets – Active Transportation (Susan Jaworski)
4. Announcements
 - a. Next TPC Meeting – November 19, 2021 at 9:30AM (Teleconference)
 - b. Next TAC Meeting – December 8, 2021 at 9:30AM (Teleconference)
 - c. Next RTP Subcommittee Meeting – December 8, 2021 at 1:30PM (Teleconference)
5. Adjourn

RTP Subcommittee Roster

Primary – Name	Organization	Alternate – Name	Organization
Morad Kabiri, P.E.	City of Friendswood	Robert Upton, P.E.	City of Pearland
Perri D'Armond	Fort Bend County	Stacy Slawinski	Fort Bend County
Monique Johnson	City of Sugar Land	Krystal LaStrape	City of Sugar Land
Bill Zrioka	Houston Airport System	Marcel Allen	Houston Airport System
Andrea French	TAG-Houston Region	Nikki Knight	Southeast Management Dist.
Elijah Williams	Energy Corridor	Elizabeth Whitton, AICP	Energy Corridor
Iris Gonzalez	Coalition for Env., Equity & Res.	Jonathan Brooks	LINK Houston
Adam France, AICP	City of Conroe	Chris Bogert, P.E.	City of Conroe
Christopher Sims	City of League City	Hon. Chad Tressler	City of League City
Matt Hanks	Brazoria County	Karen McKinnon	Brazoria County
David Fields	City of Houston-P&D	VACANT	City of Houston-PW
Hon. Jay Knight	Liberty County	David Douglas	Liberty County
Loyd Smith, P.E.	Harris County	Bryan Brown	Harris County
Nick Woolery	City of Baytown	Frank Simoneaux	City of Baytown
Yancy Scott	Waller County	Jared Chen	Waller County
Katherine Parker	GCRD	Carol Lewis, PhD	TSU
Bruce Mann	Port of Houston	Rohit Saxena	Port of Houston
Rodger Rees	Port of Galveston	Brett Milutin	Port of Galveston
Charles Airiohuodion	TxDOT-HOU	Jeffrey English	TxDOT-HOU
Lisa Collins	TxDOT-BMT	Scott Ayres	TxDOT-BMT
Ken Fickes	Harris County	Vernon Chambers	Harris County
Kenneth Brown	METRO	Philip Brenner	METRO
John Tyler	HCTRA	Dale Hilliard	HCTRA

**MEETING OF THE RTP SUBCOMMITTEE
HOUSTON-GALVESTON AREA COUNCIL
TELECONFERENCE PARTICIPATION VIA MICROSOFT TEAMS
October 13, 2021
1:30PM
Minutes**

Member Attendance:

Primary-Name	Present	Alternate-Name	Present
Morad Kabiri, Chair	Yes	Robert Upton	Yes
Perri D'Armond, Vice Chair	Yes	Stacy Slawinski	No
Monique Johnson	No	Krystal LaStrape	Yes
Bill Zrioka	Yes	Vacant	No
Andrea French	No	Nikki Knight	Yes
Elijah Williams	No	Elizabeth Whitton	No
Iris Gonzalez	No	Jonathan Brooks	Yes
Adam France	No	Chris Bogert	No
Christopher Sims	No	Hon. Chad Tressler	No
Matt Hanks	No	Karen McKinnon	Yes
David Fields	Yes	Vacant	No
Hon. Jay Knight	No	David Douglas	No
Loyd Smith	No	Bryan Brown	Yes
Nick Woolery	Yes	Frank Simoneaux	No
Yancy Scott	No	Jared Chen	No
Katherine Parker	Yes	Carol Lewis	Yes
Bruce Mann	Yes	Rohit Saxena	No
Rodger Rees	No	Brett Milutin	No
Charles Airiohuodion	Yes	Jeffrey English	Yes
Lisa Collins	Yes	Scott Ayres	Yes
Ken Fickes	Yes	Vernon Chambers	Yes
Kenneth Brown	Yes	Philip Brenner	Yes
John Tyler	No	Dale Hilliard	No

Others Present: Amy Skicki, Andrew Mao, Adam Beckom, Dale (Guest), Andrew DeCandis, Jim Dickinson, Eliza Paul, Carrie Evans, Ben Finley, Shixin Gao, Brandy George, Donte Green, Sandra Holliday, Allie Isbell, Jacqueline Munoz, Susan Jaworski, Sharon Ju, Ayo Jibowu, Catherine Kato, Megan Kennison, Justin Kuzila, Shirley Li, Vishu Lingala, Graciela Lubertino, Jim Mahood, Patrick Mandapaka, Karen Owen, Jamila Owens, Frank Pagliei, Craig Raborn, Cameron Stawicki, Chris Van Slyke, Veronica Waller

Staff Participating:

Mike Burns, Thomas Gray, Veronica Green, Carlene Mullins

1. Call to Order
Chair Morad K called the meeting to order at 1:30PM and conducted roll call to ensure a quorum. Morad K confirmed that a quorum was present.
2. Acceptance of Minutes
Bruce M made a motion to approve, Jonathan B seconded.
The motion was approved unanimously.

3. Discussion of the 2045 RTP Updating Strategy

a. Vision Statement – Review Initial Draft

Mike B described feedback received at the September TAC and TPC meetings on the initial draft vision statement. This included a need to focus on freight and climate change concerns.

Bruce M mentioned that the goals should align with the call for projects evaluation criteria.

b. Stakeholder Outreach Strategy – Update on Outreach

Mike B briefly mentioned that H-GAC is developing a work program for outreach that will include three phases – visioning, prioritization, and plan review.

c. Transportation Assets – Freight Mobility (Veronica Green)

Veronica G presented an overview of freight planning at H-GAC. This included discussion of various freight elements, regional goals related to freight, bottleneck locations, opportunities to expand the freight network, and improving modeling capabilities. Improvements to truck parking opportunities, at-grade rail crossings, and reliability of the freight network were also summarized. Bruce M suggested that the RTP should be flexible to accept freight related improvement projects that are not yet envisioned.

Brian B asked if maintenance, specifically for the freight network, was being considered, and if there was an analysis of cost of maintaining high volume versus low volume corridors.

Veronica G responded that maintenance is a consideration, and that a detailed cost analysis was not specifically part of the Regional Goods Movement Update.

Bruce M suggested that the Greater Houston Freight Committee serve as a resource for recommendations for policy.

4. Subregional Planning Updates

a. Montgomery County Precinct 2 Mobility Study (Carlene Mullins)

Carlene M provided an overview of the study's schedule and process, noting various physical barriers for new road connections and anticipated new developments. There was also a summary of identified issues and strategies to improve safety and congestion, and a summary of next steps. David F suggested incorporation of the High Capacity Transit Task Force recommendations.

b. Liberty County Subregional Study (Thomas Gray)

Thomas G summarized the purpose of the study and described the study area and steering committee members. He reviewed various location and described existing congestion conditions, projected conditions, and possible solutions to delay. Pedestrian, bicycle, and transit recommendations were also summarized, including policy recommendations for development plan review and development of local design standards.

c. Southeast Harris County Subregional Study (Mike Burns)

Mike B summarized the study area, steering committee members, and measurable goals being used for the study. He summarized public comments and existing safety and congestion conditions, including a review of potential solutions to identified issues for safety, accessibility, and improved transit service.

5. Announcements

a. Next TPC Meeting – October 22, 2021 at 9:30AM (Teleconference)

b. Next TAC Meeting – November 10, 2021 at 9:30AM (Teleconference)

c. Next RTP Subcommittee Meeting – November 10, 2021 at 1:30PM (Teleconference)

Morad K mentioned upcoming meetings over the next month.

Charles A mentioned the TxDOT I-10 Corridor Study that recently initiated, which will review bottlenecks and railroad crossings all along the corridor through the state.

6. Adjourn

Morad K asked for any other comments. Hearing none, the Chair declared the meeting adjourned at 2:44PM.

Minutes submitted by: Mike Burns



Regional Transportation Plan Update



Mike Burns, AICP
RTP Subcommittee – 11/10/2021

Public Outreach



- Visioning Survey
 - To be conducted online via engage.h-gac.com with paper survey available upon request
 - Questions include juxtaposed trade offs aligned with current goals
 - To be heavily promoted on various H-GAC social media platforms with “teaser questions”
- Visioning Meetings
 - MPO County-specific meetings anticipated in early 2nd Quarter 2022
 - Review of 2020 Demographics, current goals, recommended projects, and promotion of survey
- Prioritization Phase may also include a public survey component

RTP Vision – Needs TAC/TPC Review

Vision Statement	
2040	In the year 2040, our region will have a multimodal transportation system through coordinated investments that supports a desirable quality of life, enhanced economic vitality and increased safety, access and mobility.
Existing	In the year 2045, our region will have an integrated multimodal transportation system, achieved through coordinated public and private investments that support a desirable quality of life, enhanced economic vitality and increased safety, access, and mobility.
<i>DRAFT - RTP Subcommittee</i>	<i>Provide a safe, resilient, equitable, and efficient multimodal transportation system.</i>

RTP Vision, Goals, Performance Measures

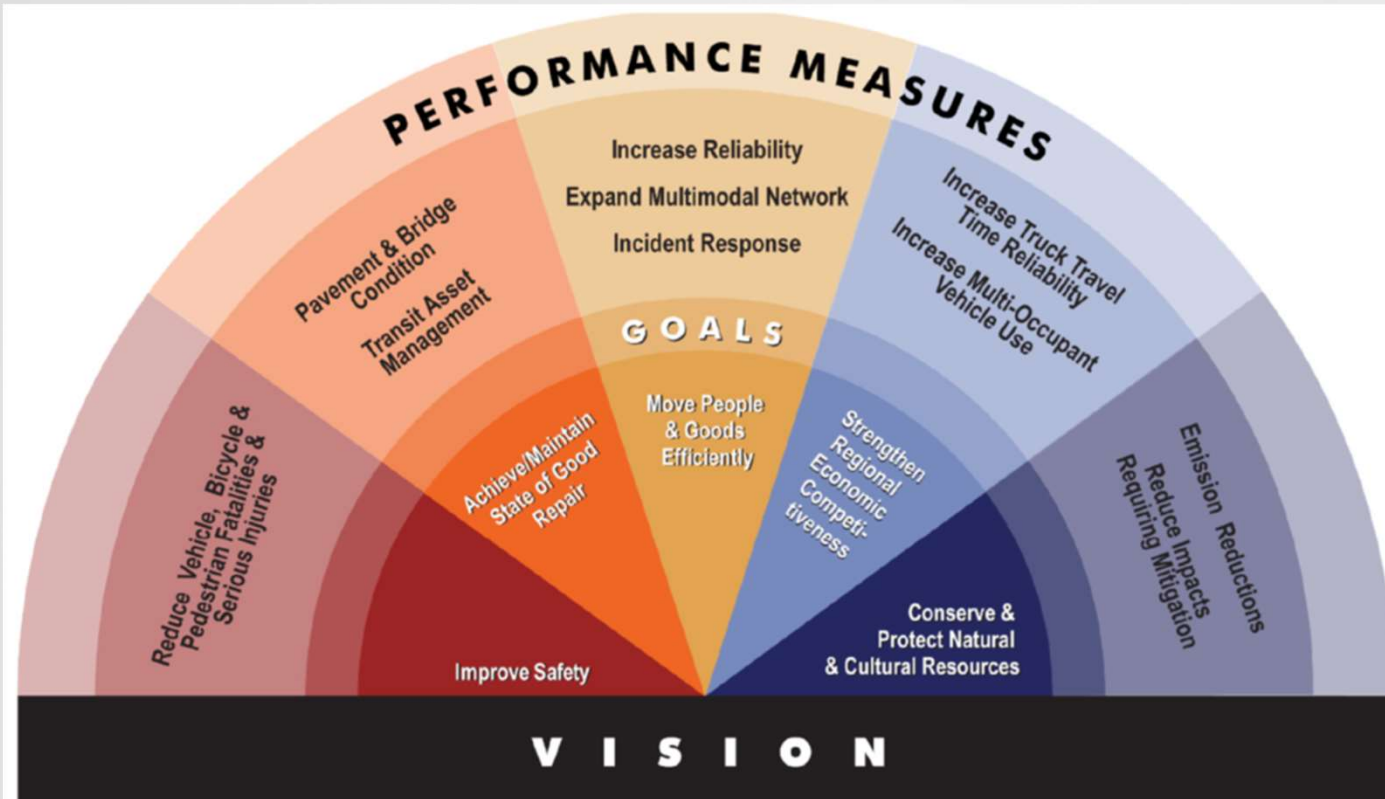
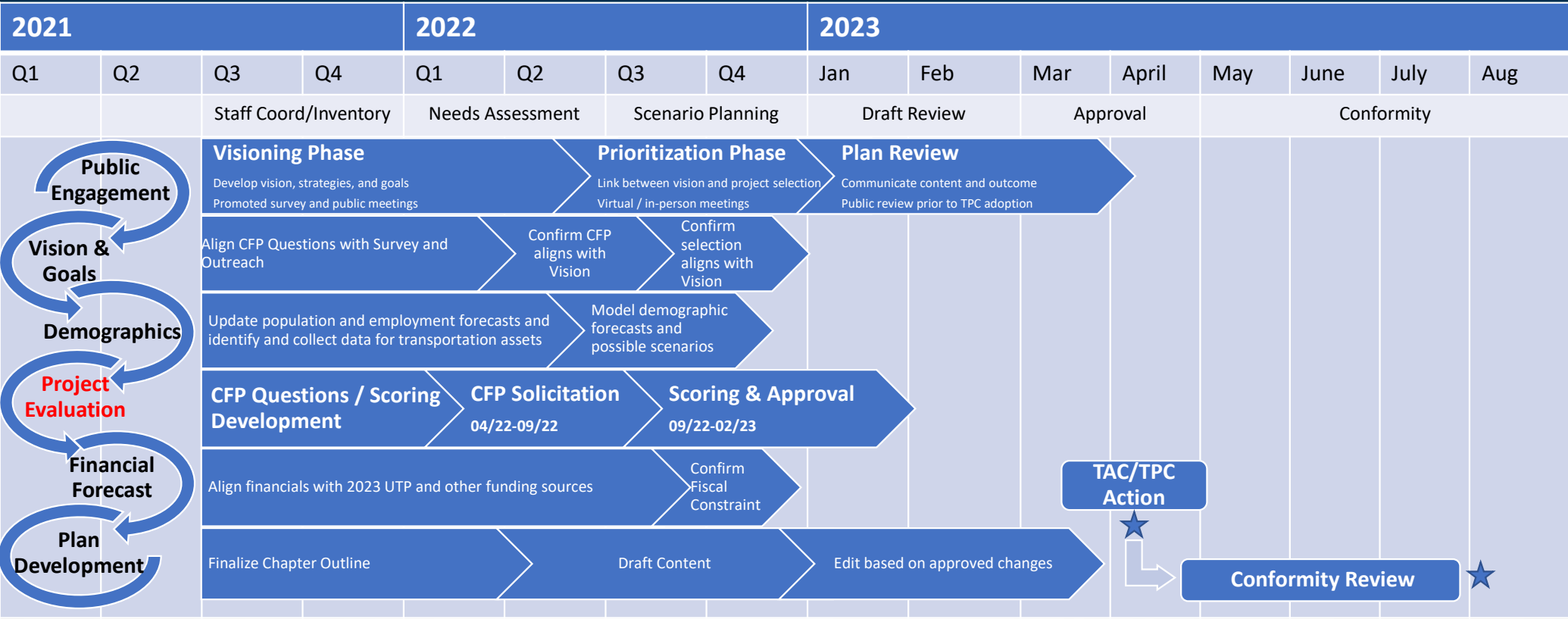


Figure 2-1: 2045 RTP Vision, Goals, and Performance Measures

Call for Projects & RTP Schedule Alignment





Regional Transportation Plan Update – Active Transportation



*Susan Jaworski – Active Transportation Planner
RTP Subcommittee – 11/10/2021*



Regional Transportation Plan Update – Active Transportation

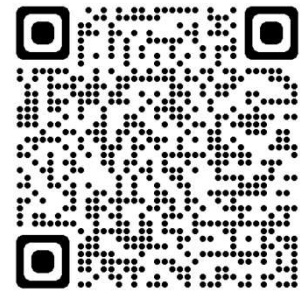


*Susan Jaworski – Active Transportation Planner
RTP Subcommittee – 11/10/2021*

Overview



- RTP Goals and Existing 2045 Active Transportation Plan
- Updating 2045 Active Transportation Plan
 - Policy Recommendations
 - Linking interdisciplinary plans (e.g. Pedestrian/Bicycle Safety Plan, Congestion Management Plan, statutes/ordinances, Vision Zero, etc.)
 - Universe of Projects
 - Approved/Fully Funded Projects
- Next Steps

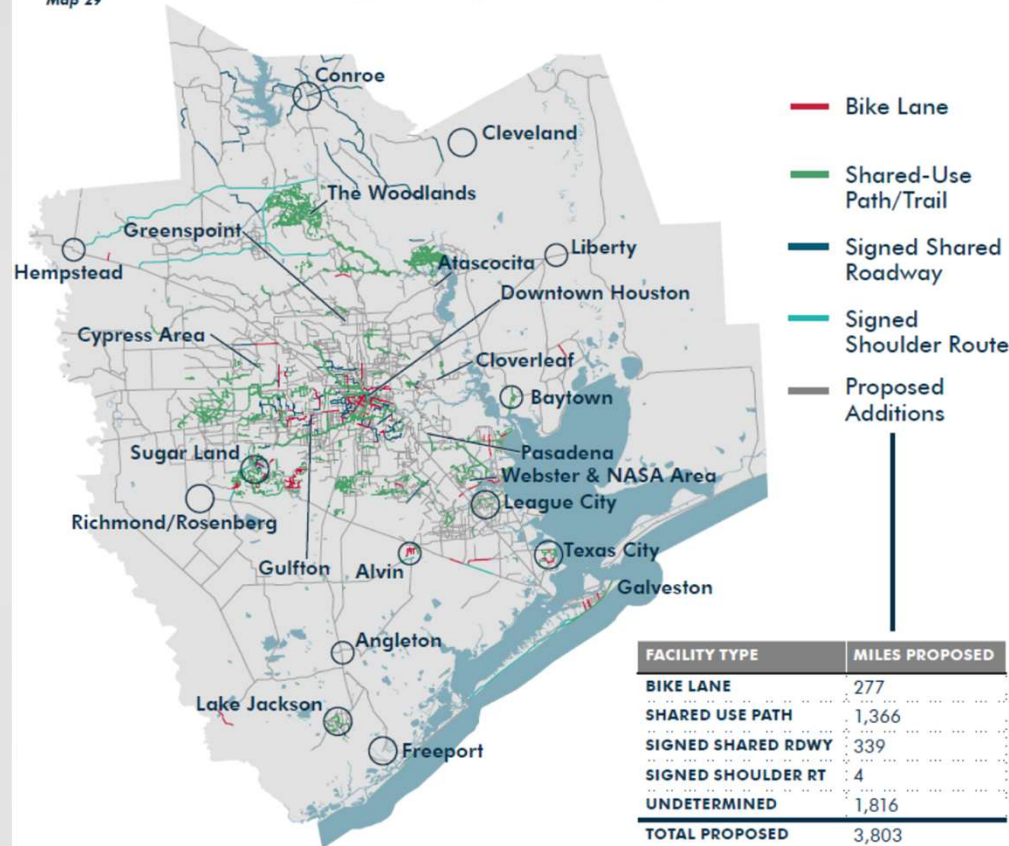


Active Transportation Network



Regional Vision: Existing and Proposed Bikeways

Map 29



RTP Goals – Needs TAC/TPC Review

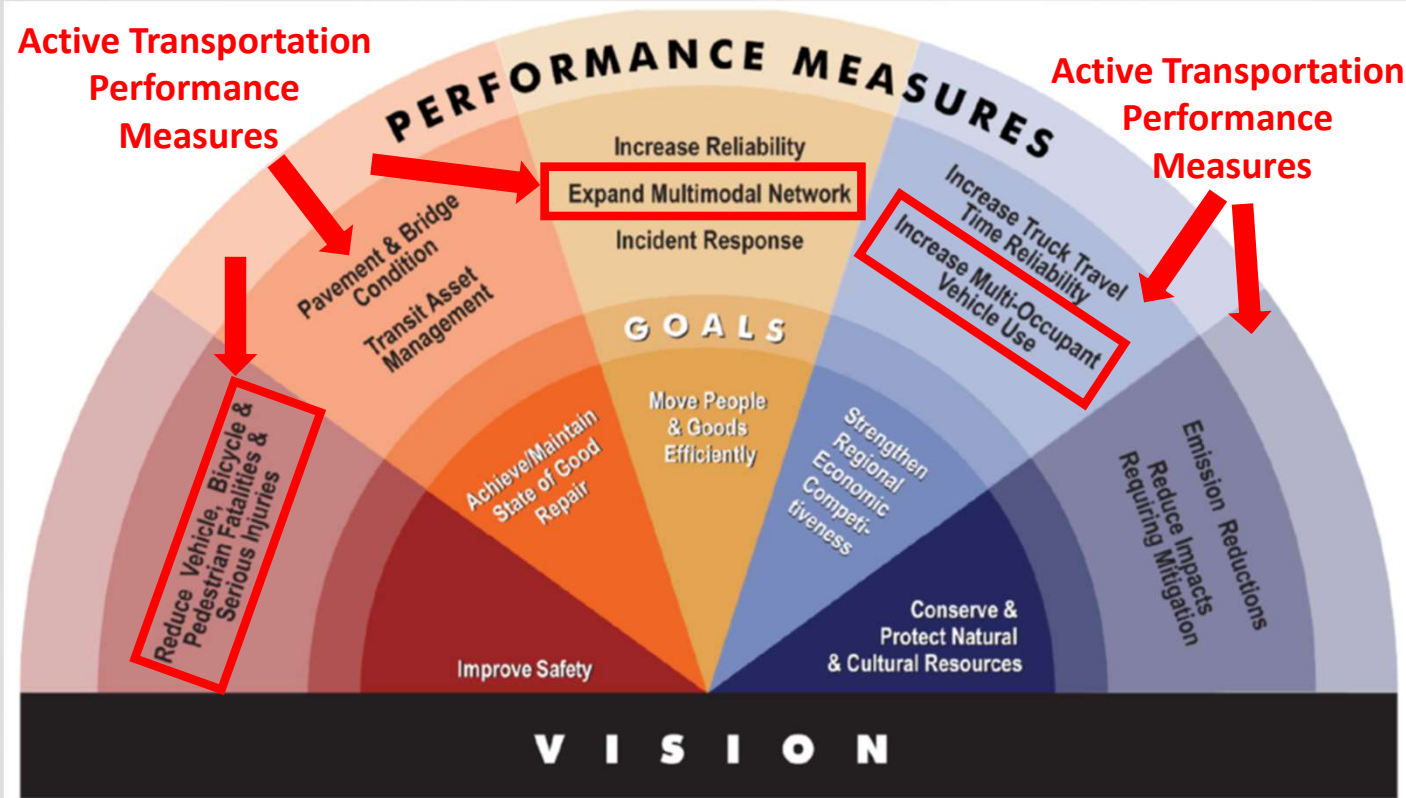


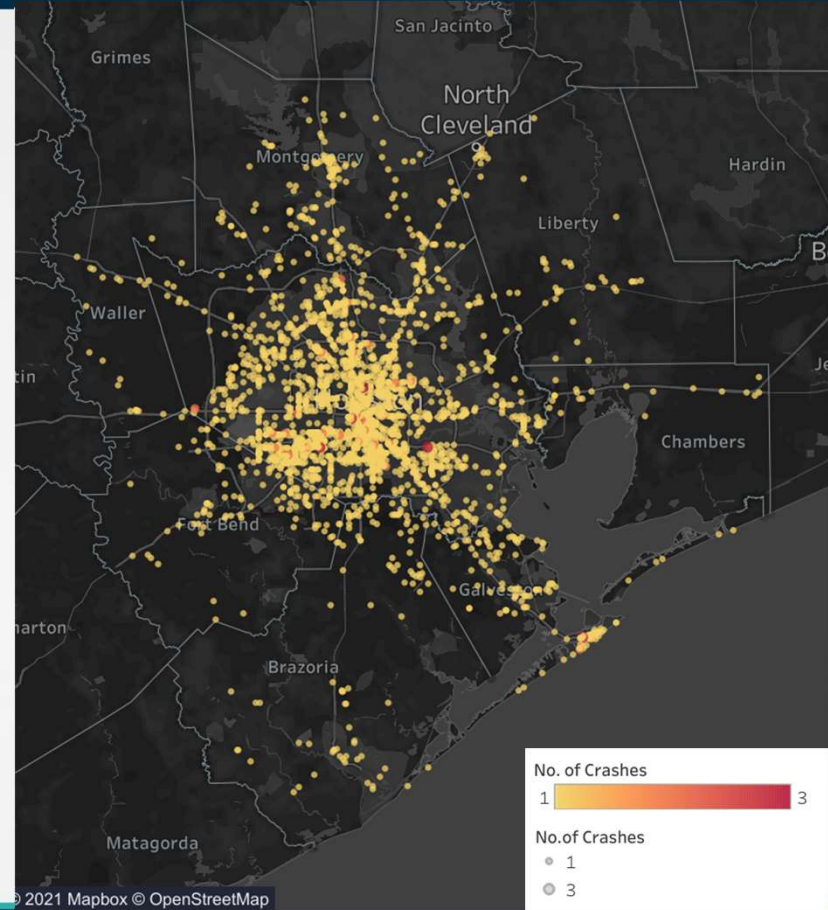
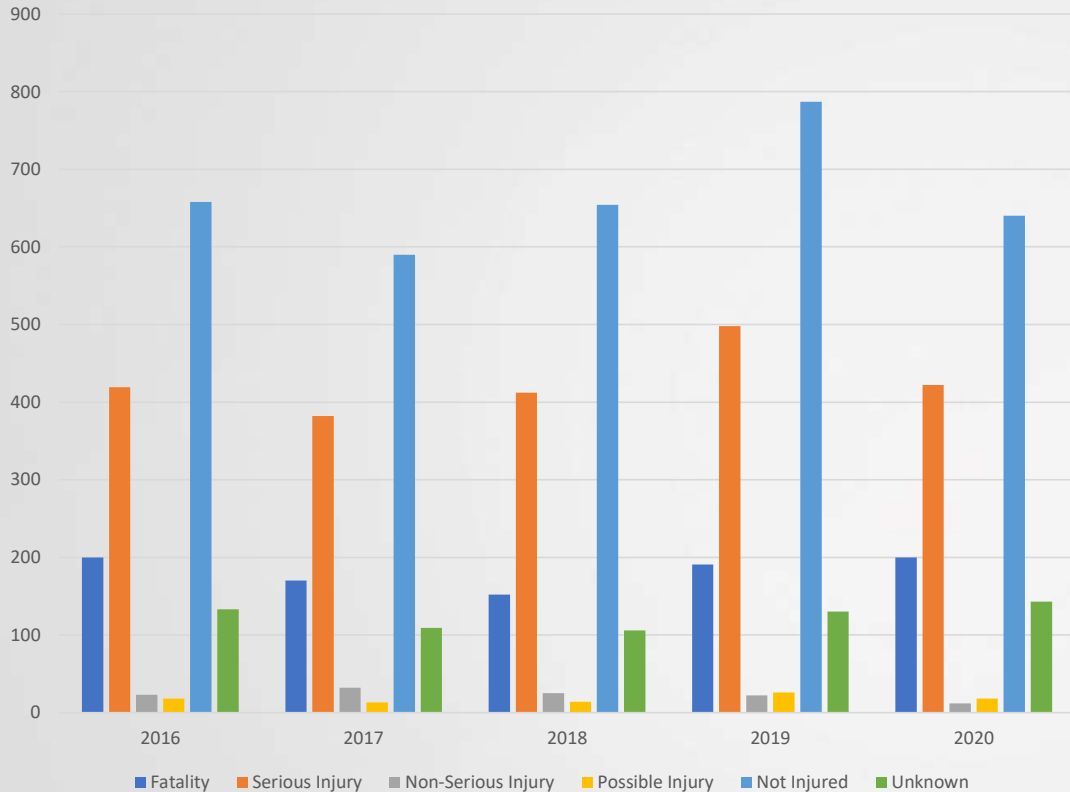
Figure 2-1: 2045 RTP Vision, Goals, and Performance Measures

Existing 2045 Active Transportation Plan

1. RTP Goal: Improve Safety
2. RTP Goal: Move People and Goods Efficiently, Strengthen Regional Economic Competitiveness
3. RTP Goal: Achieve and Maintain a State of Good Repair
4. RTP Goal: Conserve and Protect Natural and Cultural Resources

Goal: Improve Safety

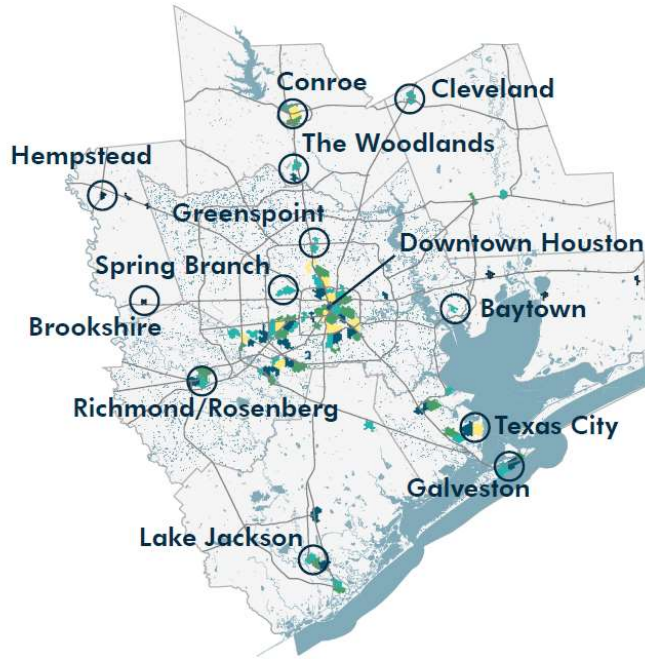
Pedestrian & Bicycle Crashes



Goal: Conserve and Protect Natural and Cultural Resources

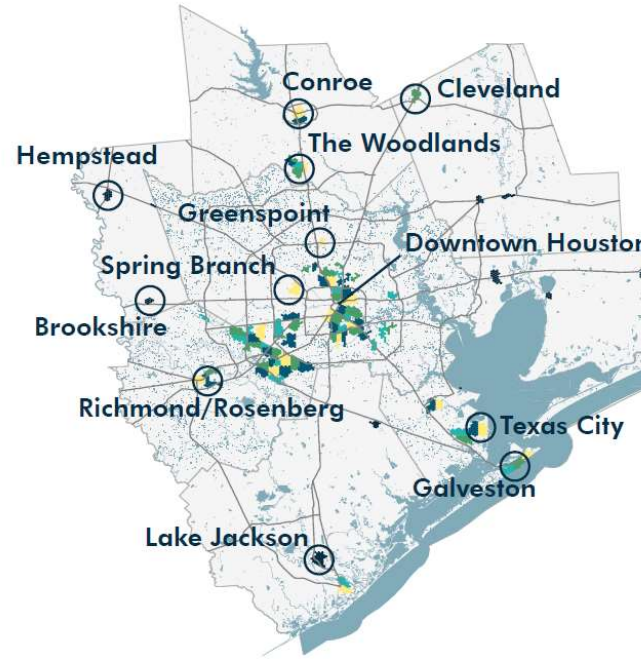
Pedestrian Focus Area Analysis

Map 20



Bicycle Focus Area Analysis

Map 21



Focus Areas

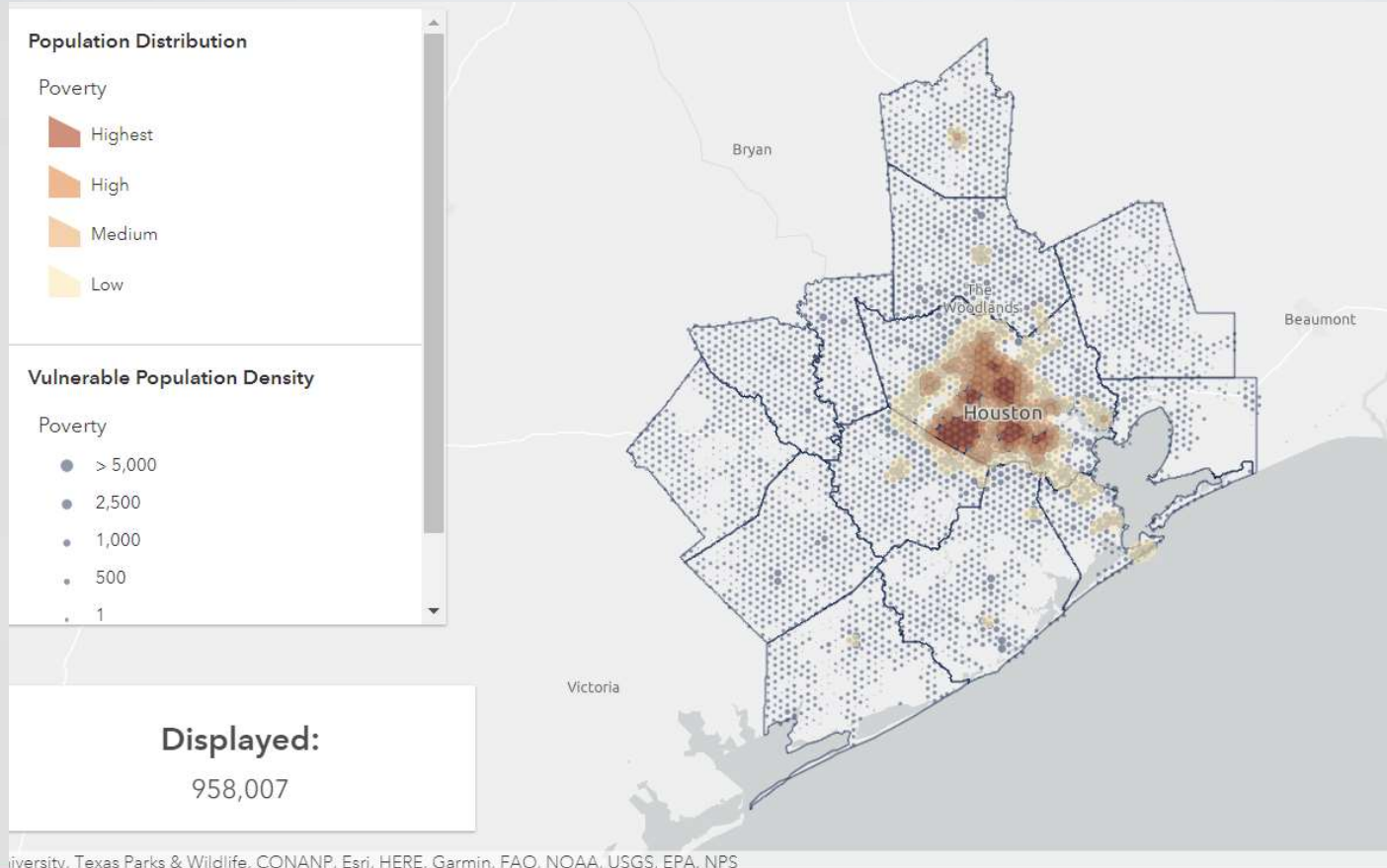


Additional Areas



Highways

Goal: Conserve and Protect Natural and Cultural Resources

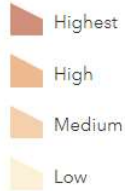


iversity, Texas Parks & Wildlife, CONANP, Esri, HERE, Garmin, FAO, NOAA, USGS, EPA, NPS

Goal: Conserve and Protect Natural and Cultural Resources

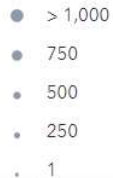
Population Distribution

People with No Cars



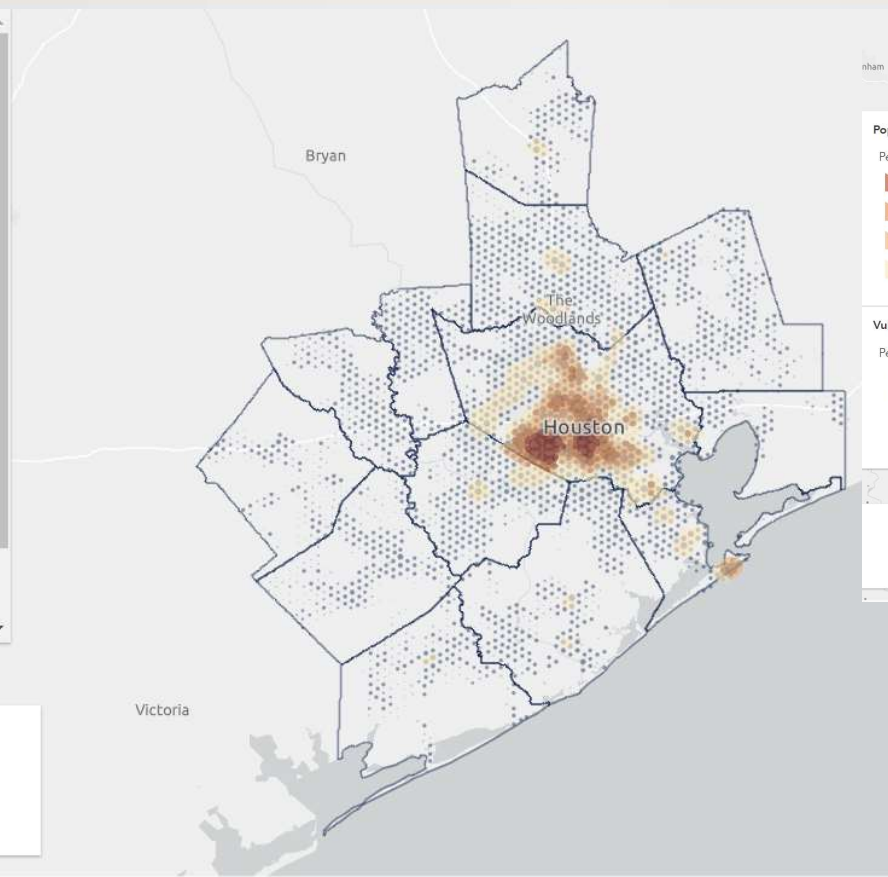
Vulnerable Population Density

People with No Cars



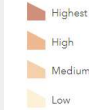
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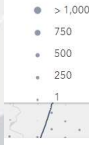
Population Distribution

People with No Cars



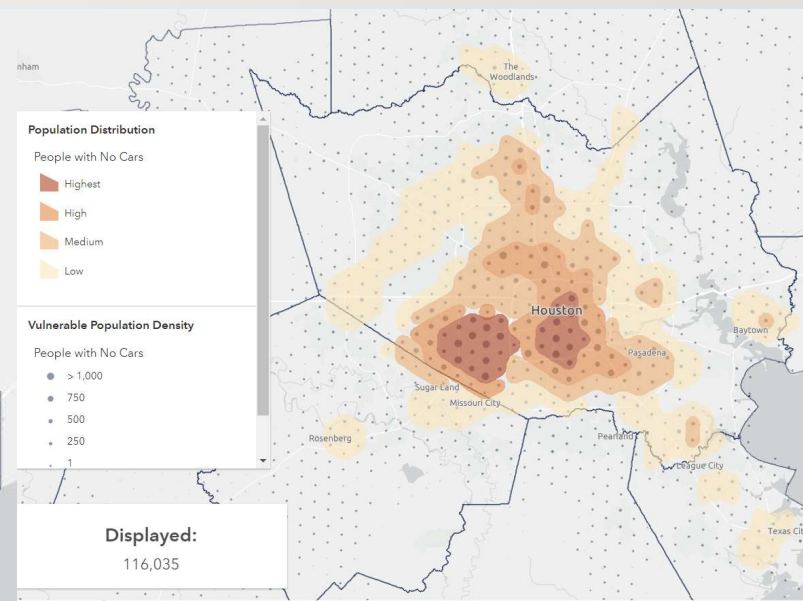
Vulnerable Population Density

People with No Cars

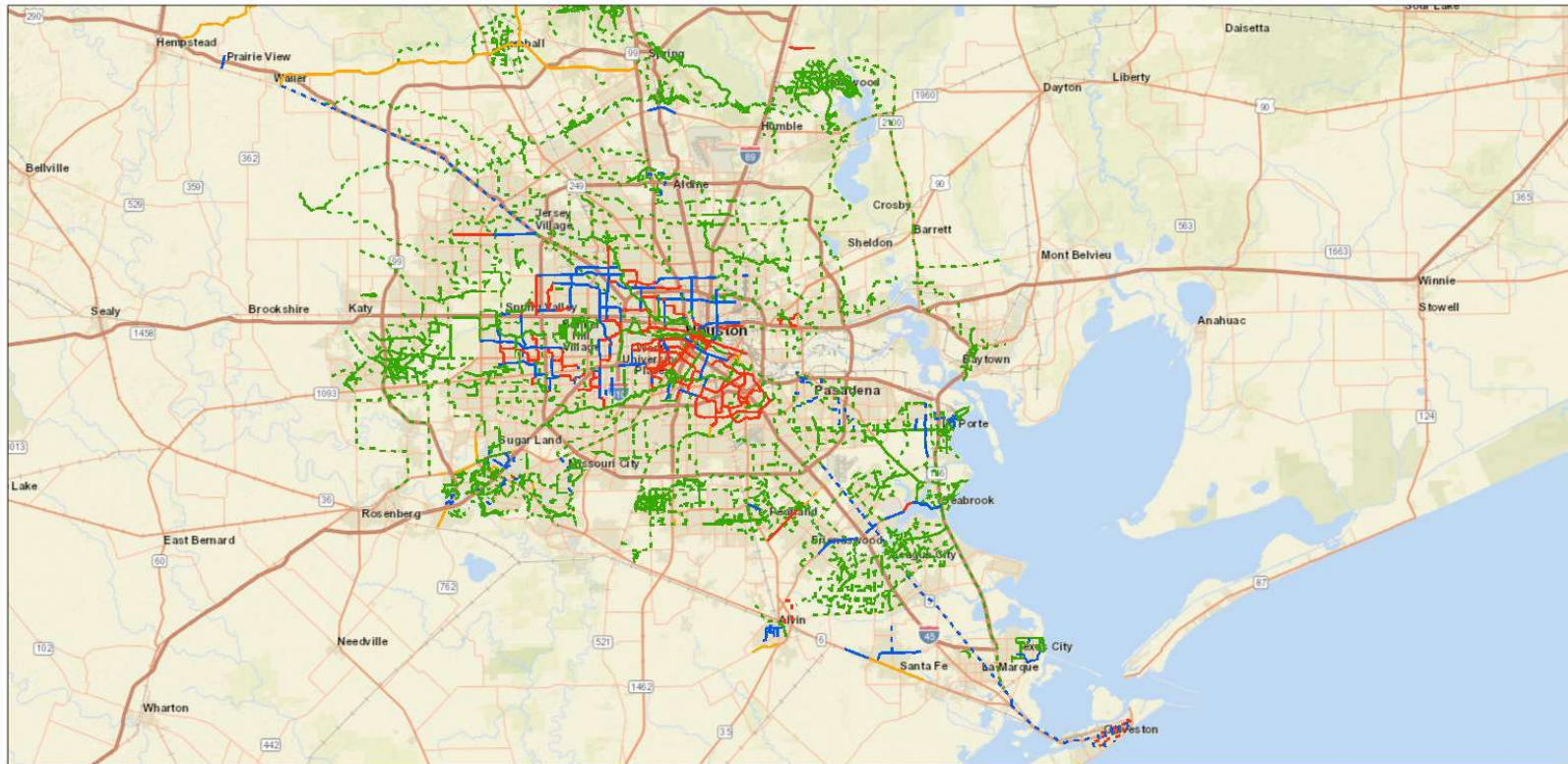


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Goal: Moving People and Goods Efficiently



11/10/2021, 10:38:28 AM

Proposed Bikeways

Proposed Bike Lane

Proposed Share the Road Signs

Proposed Shared Use Path/Trail

Proposed Signed Shared Roadway

Proposed Signed Shoulder Bike Route

Existing Bikeways

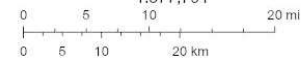
Existing Bike Lane

Existing Shared Use Path/Trail

Existing Signed Shared Roadway

Existing Signed Shoulder Bike Route

1:577,791



Esri, HERE, Garmin, NGA, USGS, NPS

Houston-Galveston Area Council

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Goal: Moving People and Goods Efficiently

Expand Multimodal Network

Regional Sidewalk Network

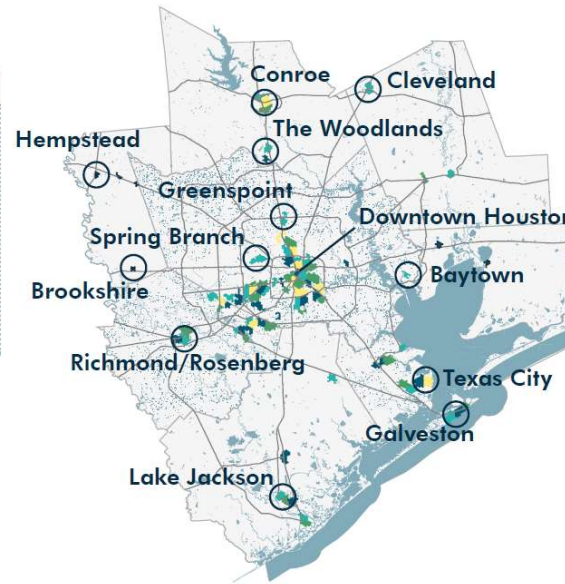
COUNTY	MILES NEEDED	ESTIMATED COST	COST + 20% CONTINGENCY
BRAZORIA	4,600	\$845 million	\$1.0 billion
CHAMBERS	1,400	\$264 million	\$317 million
FORT BEND	3,900	\$714 million	\$857 million
GALVESTON	3,300	\$604 million	\$725 million
HARRIS	17,200	\$3.15 billion	\$3.8 billion
LIBERTY	3,400	\$622 million	\$747 million
MONTGOMERY	8,000	\$1.5 billion	\$1.8 billion
WALLER	2,000	\$376 million	\$451 million
TOTAL	43,900	\$8.04 billion	\$9.65 billion

Regional Bicycle Network

COUNTY	MILES PROPOSED	ESTIMATED COST	COST + 20% CONTINGENCY
BRAZORIA	353	\$145 million	\$174 million
CHAMBERS	105	\$40 million	\$48 million
FORT BEND	378	\$159 million	\$191 million
GALVESTON	399	\$167 million	\$200 million
HARRIS	2,035	\$766 million	\$919 million
LIBERTY	108	\$42 million	\$50 million
MONTGOMERY	284	\$87 million	\$104 million
WALLER	141	\$54 million	\$65 million
TOTAL	3,803	\$8.04 billion	\$9.65 billion

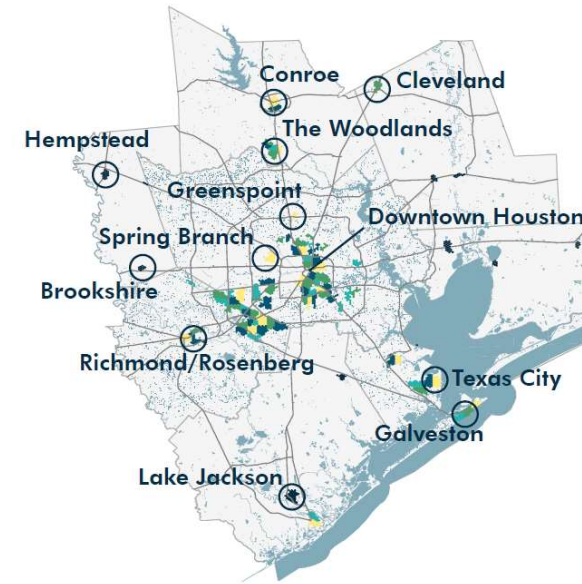
Pedestrian Focus Area Analysis

Map 20



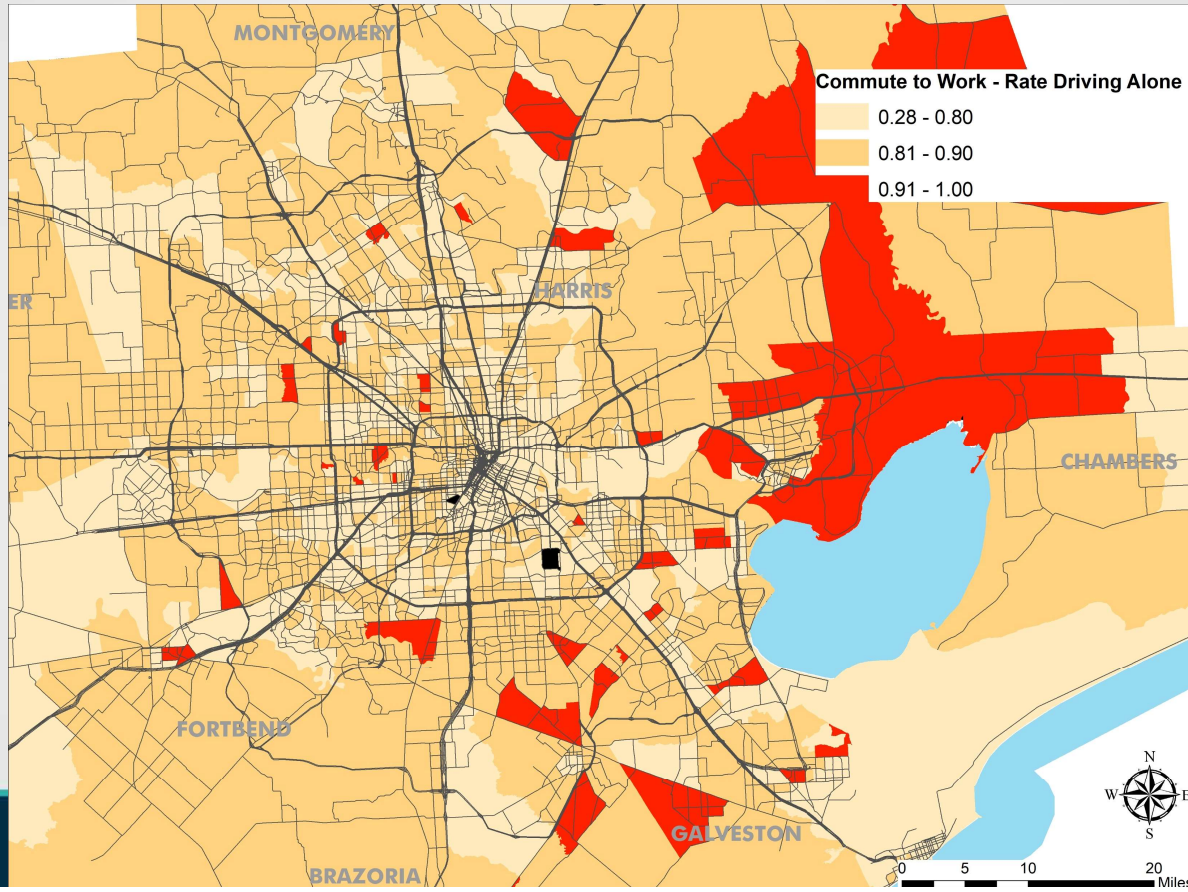
Bicycle Focus Area Analysis

Map 21



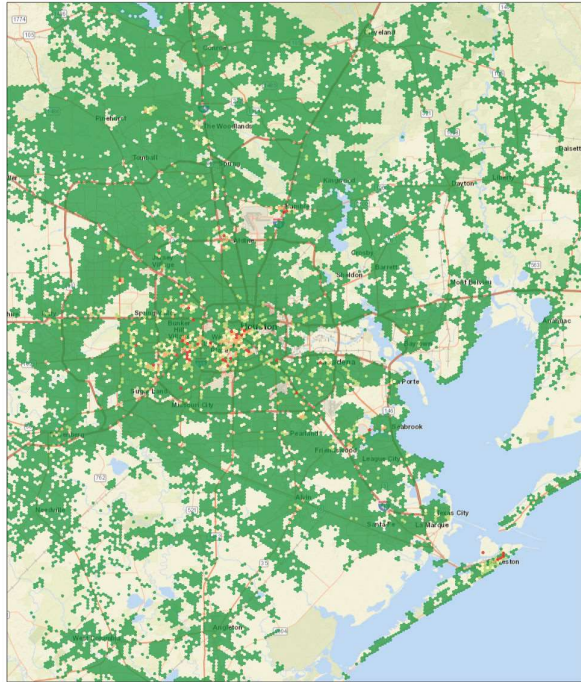
Goal: Strengthen Regional Economic Competitiveness

Connect Multimodal Network & Reduce Single Occupant Vehicle Commutes



Goal: Strengthen Regional Economic Competitiveness

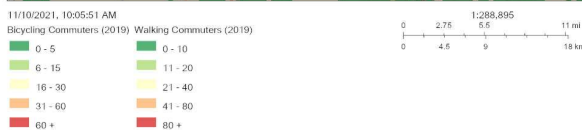
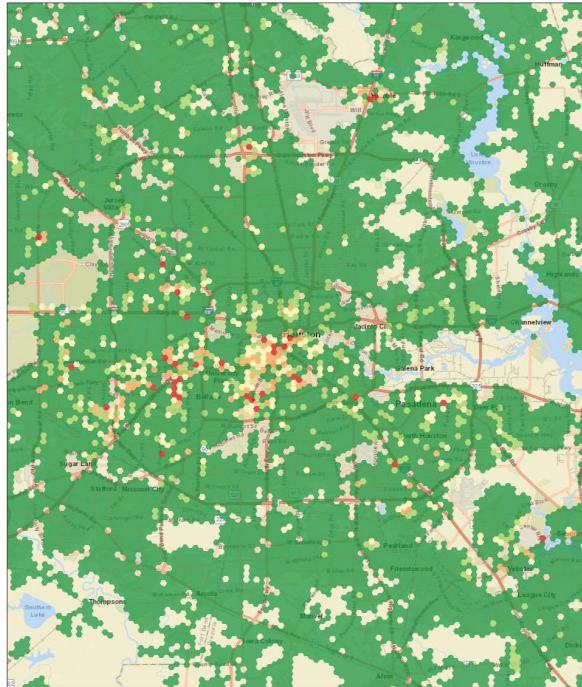
Ped/Bike Commuter Analysis



Esri, HERE, Garmin, NGA, USGS, NPS

Houston-Galveston Area Council

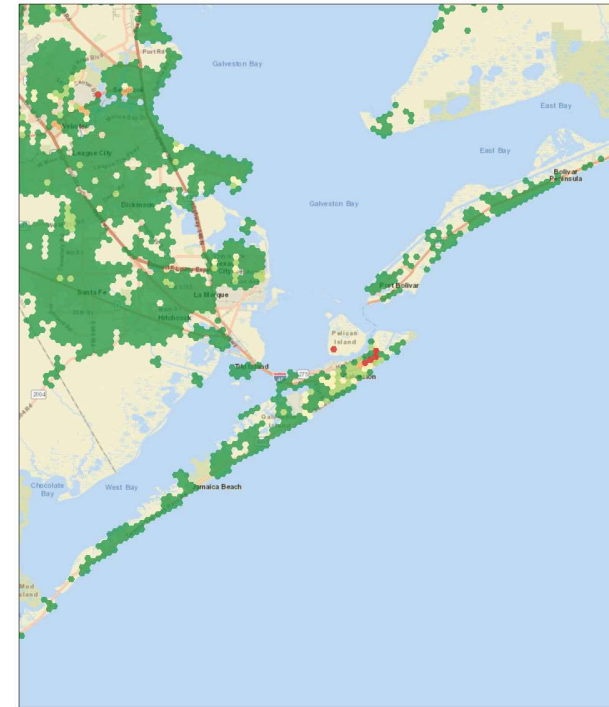
Ped/Bike Commuter Analysis



City of Houston, HRB, Esri, HERE, Garmin, NGA, USGS, NPS

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Ped/Bike Commuter Analysis

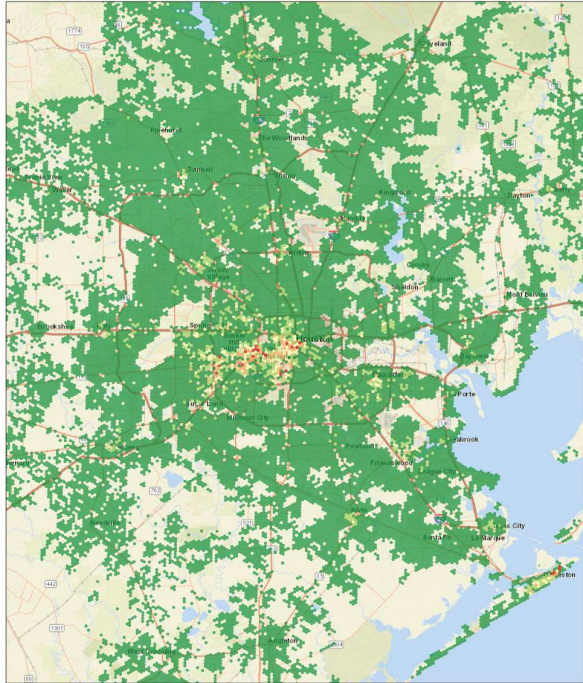


Esri, HERE, Garmin, NGA, USGS, NPS

Houston-Galveston Area Council

Goal: Strengthen Regional Economic Competitiveness

Ped/Bike Commuter Analysis



11/10/2021, 9:57:16 AM
Potential Walking Commuters within Short-Distance

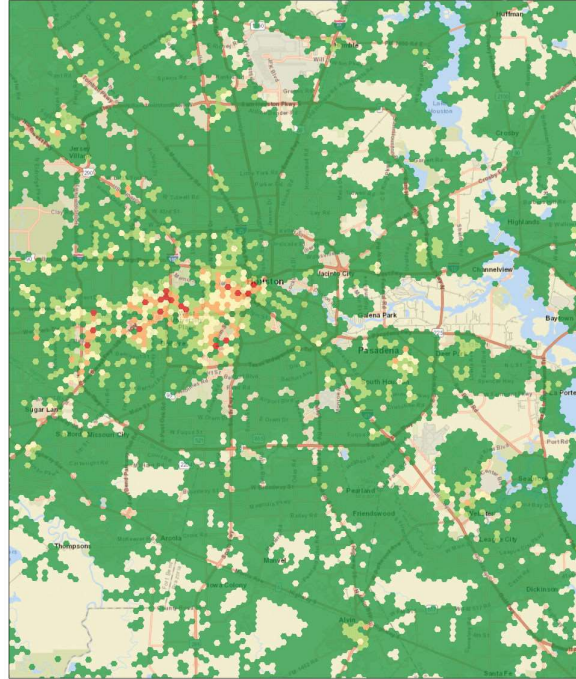
- 0 - 15
- 16 - 30
- 31 - 60
- 61 - 120
- 120 +



Esri, HERE, Garmin, NGA, USGS, IPS

Houston-Galveston Area Council

Ped/Bike Commuter Analysis



11/10/2021, 10:01:18 AM
Potential Walking Commuters within Short-Distance

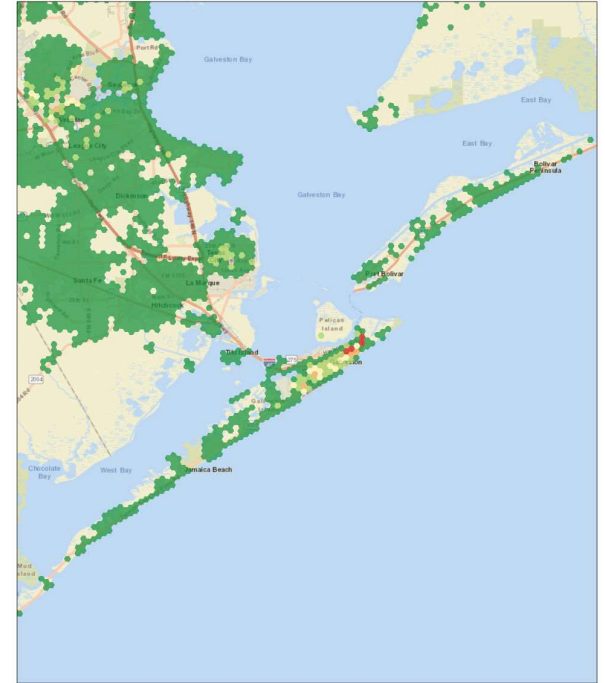
- 0 - 15
- 16 - 30
- 31 - 60
- 61 - 120
- 120 +



City of Houston, FPL, Esri, HERE, Garmin, NGA, USGS, IPS

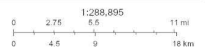
Houston-Galveston Area Council

Ped/Bike Commuter Analysis



11/10/2021, 10:02:30 AM
Potential Walking Commuters within Short-Distance

- 0 - 15
- 16 - 30
- 31 - 60
- 61 - 120
- 120 +

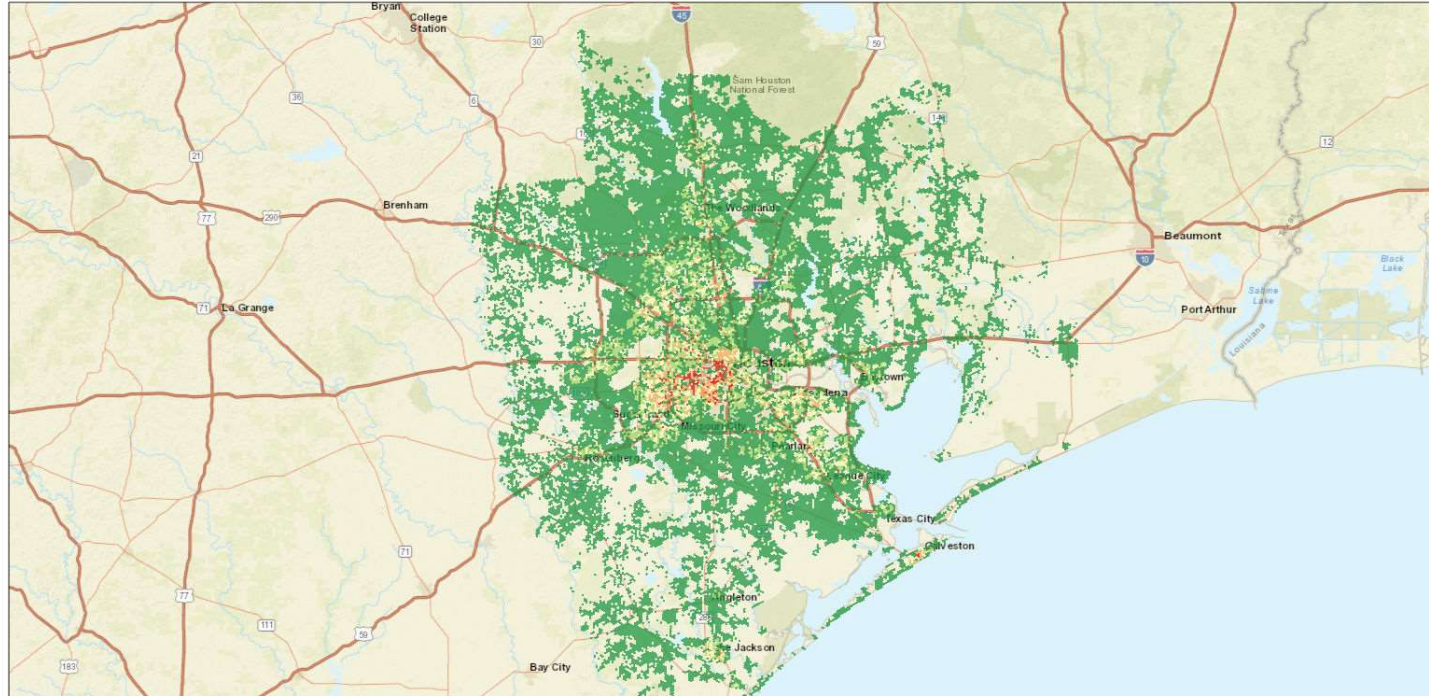


Esri, HERE, Garmin, NGA, USGS, IPS

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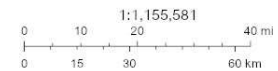
Goal: Strengthen Regional Economic Competitiveness

Ped/Bike Commuter Analysis



11/10/2021, 10:07:54 AM

Total VMT Reduction by New Walking/Bicycling Commuters



Esri, HERE, Garmin, NGA, USGS, NPS

Goal: Strengthen Regional Economic Competitiveness

Complete Streets

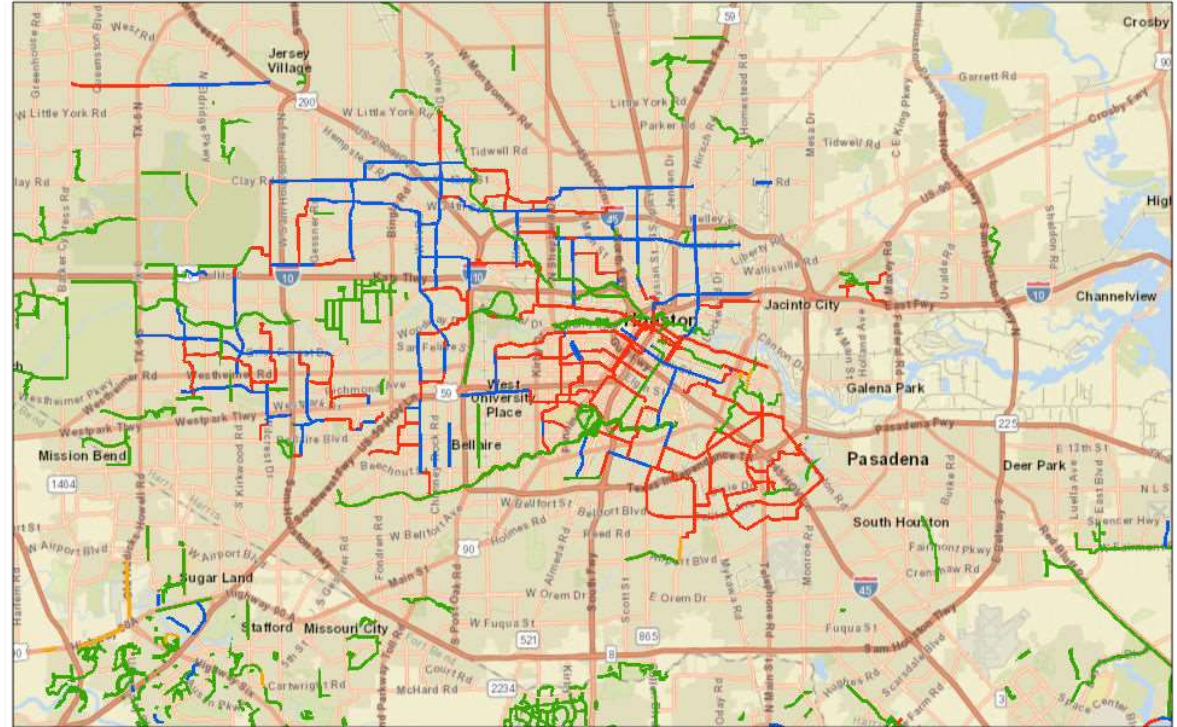


Goal: Achieve and Maintain a State of Good Repair

Maintain and Monitor



Existing Bike Facilities



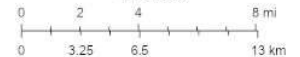
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Existing Bikeways

- Existing Bike Lane
- Existing Shared Use Path/Trail

- Existing Signed Shared Roadway
- Existing Signed Shoulder Bike Route

1:288,895

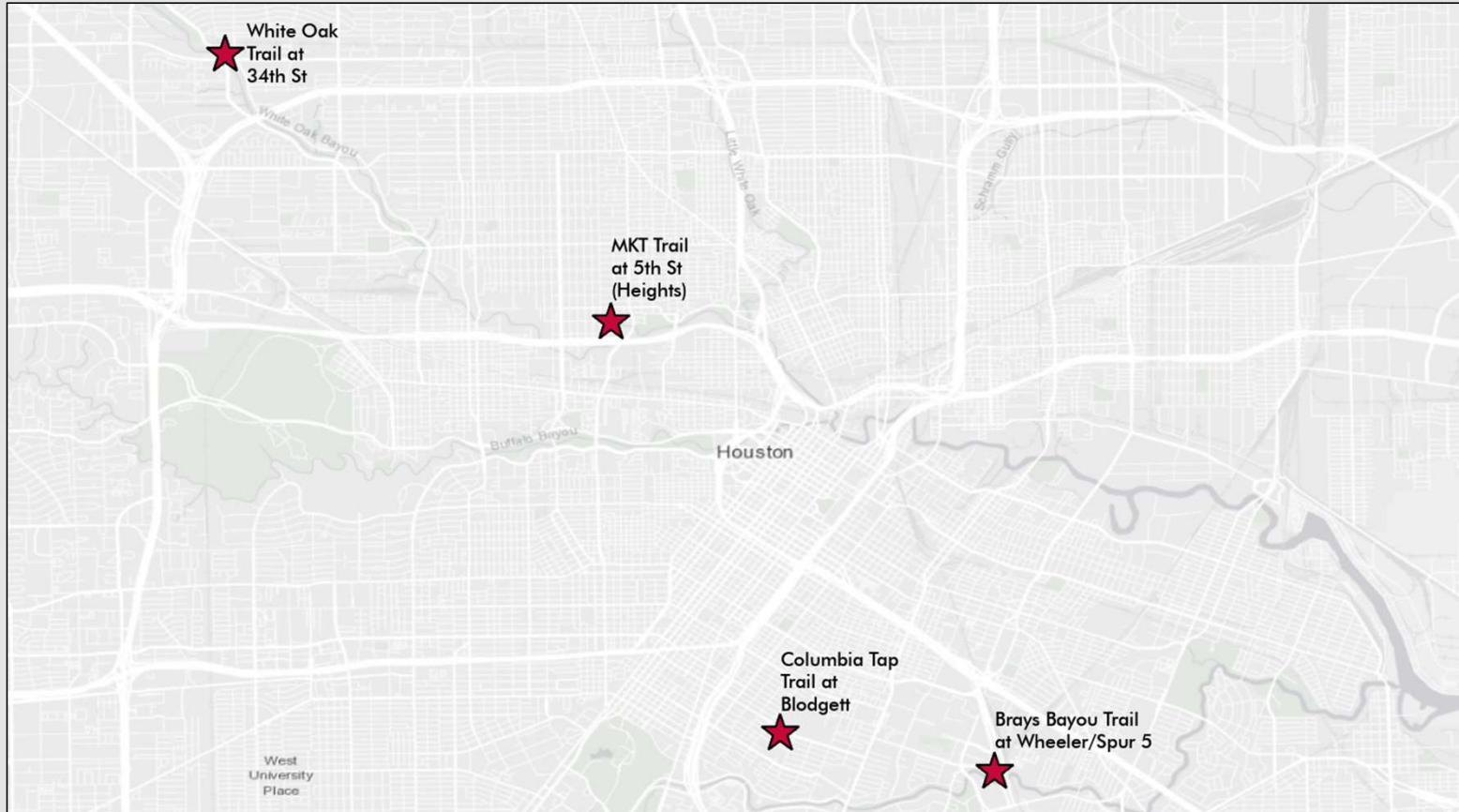


City of Houston, HPB, Esri, HERE, Garmin, NGA, USGS, NPS

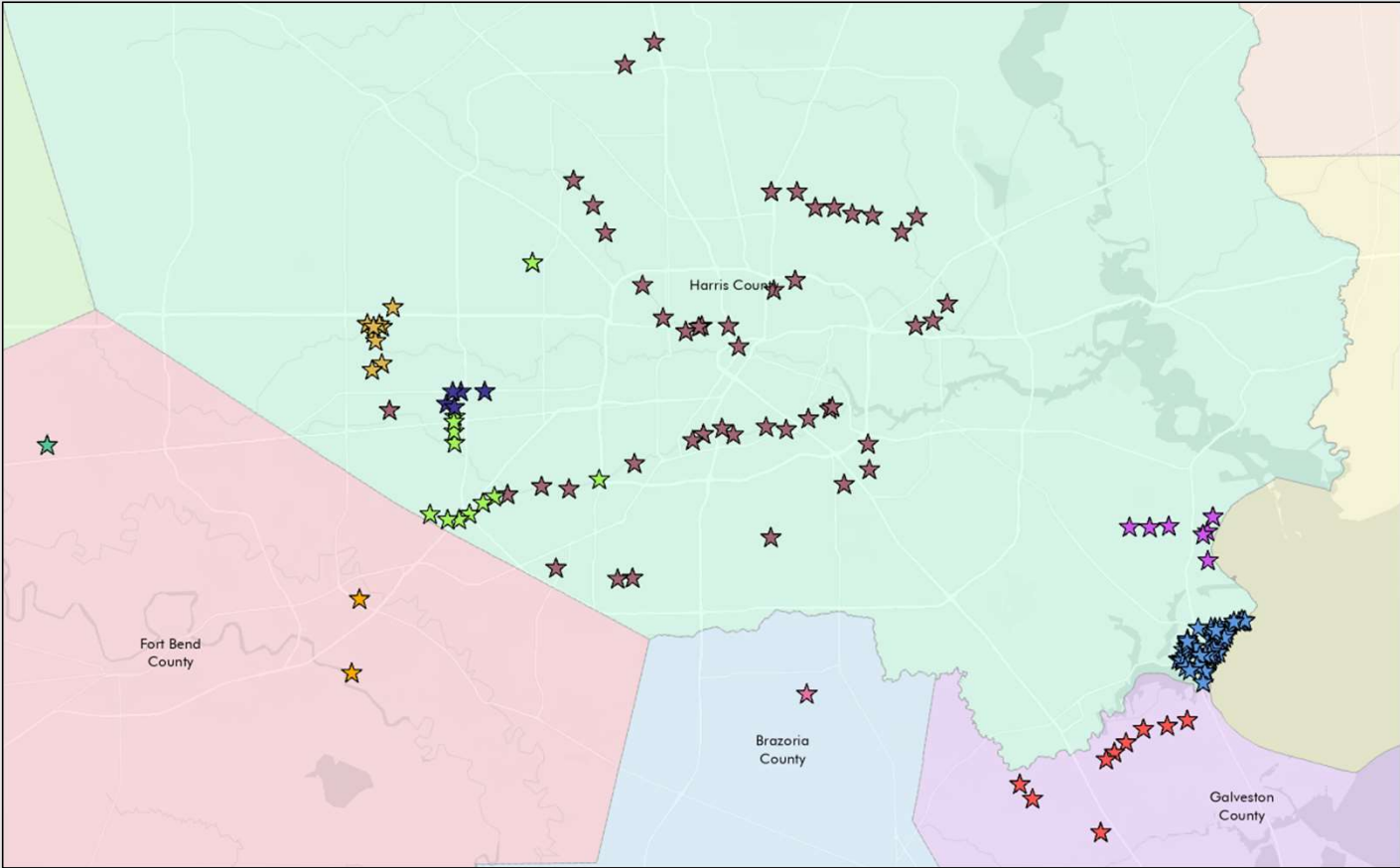
Houston-Galveston Area Council

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Existing Permanent Counter Locations

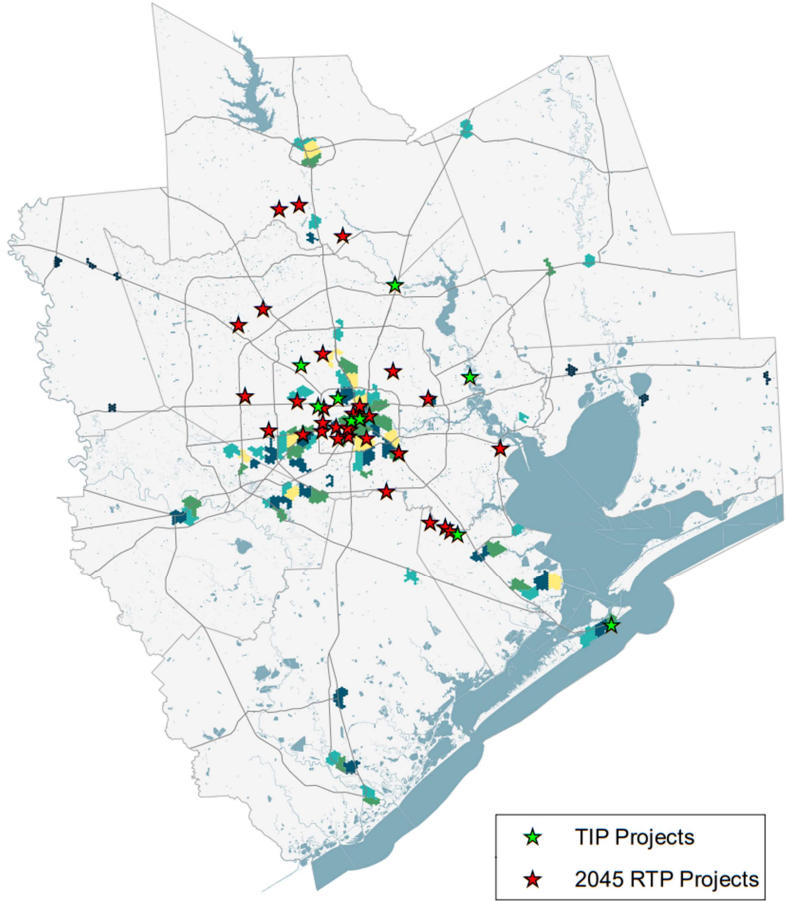


Survey Results - Permanent Counter Locations

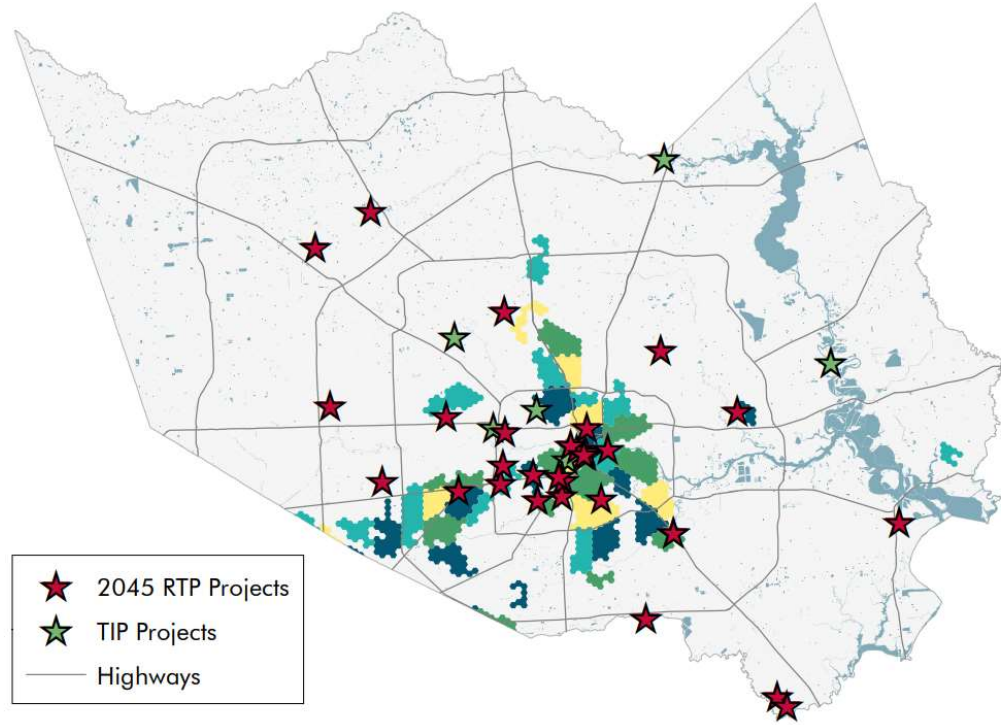


Recommended Areas of Focus

RTP & TIP Projects With Pedestrian Focus Areas



RTP & TIP Projects with Pedestrian Focus Areas in Harris County



Preliminary Schedule



Active Transportation

Challenges

- Expanding and upgrading sidewalks and bicycle facilities
- Encouraging less SOV trips
- Zero fatalities and serious injuries
- Syncing future revisions with other plan updates



Questions



Susan Jaworski

susan.jaworski@h-gac.com

Active Transportation Planner