MEETING OF THE RTP SUBCOMMITTEE HOUSTON-GALVESTON AREA COUNCIL

MEMBERS PLEASE USE THE TEAMS INVITATION

TELECONFERENCE PARTICIPATION VIA MICROSOFT TEAMS

<u>+1 346-262-0140</u> United States, Houston (Toll) Conference ID: 641 945 004#

> March 9, 2022 1:30PM

AGENDA

- 1. Call to Order Roll Call Attendance
- 2. Acceptance of Minutes From meeting of January 19, 2021
- 3. Transit Asset Management (TAM) Plan Informational (Jamila Owens and Chris Whaley)
 - a. CY 2022 Asset Target Analysis
 - b. CY 2024-2026 Target Setting
 - c. Investments to Meet Targets
- 4. Discussion of the 2045 RTP Updating Strategy
 - a. Outreach Strategy Visioning Phase Update (Mike Burns)
 - b. Transportation Assets Regional ITS/Safety (David Fink)
 - c. Freight Regional Goods Movement Plan Update (Veronica Green)
- 5. Announcements
 - a. Next TAC Meeting March 16, 2022 at 9:30AM (Teleconference)
 - b. Next TPC Meeting March 25, 2022 at 9:30AM (Teleconference)
 - c. Next RTP Subcommittee Meeting April 13, 2022 at 1:30PM (Teleconference)
- 6. Adjourn

RTP Subcommittee Roster

Primary – Name	Organization	Alternate – Name
Morad Kabiri, P.E.	City of Friendswood	Robert Upton, P.E.
Perri D'Armond	Fort Bend County	Stacy Slawinski
Monique Johnson	City of Sugar Land	VACANT
Bill Zrioka	Houston Airport System	Marcel Allen
Andrea French	TAG-Houston Region	Nikki Knight
Elijah Williams	Energy Corridor	Elizabeth Whitton, AICP
Iris Gonzalez	Coalition for Env., Equity & Res.	Jonathan Brooks
Adam France, AICP	City of Conroe	Chris Bogert, P.E.

City of League City

City of Houston-P&D

Brazoria County

Liberty County

Harris County

Waller County

Port of Houston

TxDOT-HOU

TxDOT-BMT

Harris County

METRO

HCTRA

Port of Galveston

GCRD

City of Baytown

Christopher Sims

Hon. Jay Knight

Loyd Smith, P.E.

Katherine Parker

Charles Airiohuodion

Nick Woolery

Yancy Scott

Bruce Mann

Lisa Collins

Ken Fickes

John Tyler

Kenneth Brown

Rodger Rees

Matt Hanks

David Fields

Organization

City of Pearland Fort Bend County

Energy Corridor

LINK Houston

City of Conroe

City of League City

City of Houston-P&D

Brazoria County

Liberty County

Harris County

Waller County

TSU

City of Baytown

Port of Houston

TxDOT-HOU

TxDOT-BMT

METRO

HCTRA

Harris County

Port of Galveston

Hon. Chad Tressler

Karen McKinnon

Peter Eccles

Bryan Brown

Jared Chen

Rohit Saxena

Jeffrey English

Philip Brenner

Dale Hilliard

Vernon Chambers

Brett Milutin

Scott Ayres

David Douglas

Frank Simoneaux

Carol Lewis, PhD

City of Sugar Land

Houston Airport System

Southeast Management Dist.

MEETING OF THE RTP SUBCOMMITTEE HOUSTON-GALVESTON AREA COUNCIL TELECONFERENCE PARTICIPATION VIA MICROSOFT TEAMS

January 19, 2022 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	Yes	Krystal LaStrape	No
Bill Zrioka	Yes	Marcel Allen	Yes
Andrea French	Yes	Nikki Knight	No
Elijah Williams	No	Elizabeth Whitton	Yes
Iris Gonzalez	No	Jonathan Brooks	Yes
Adam France	No	Chris Bogert	No
Christopher Sims	Yes	Hon. Chad Tressler	No
Matt Hanks	Yes	Karen McKinnon	No
David Fields	Yes	Peter Eccles	No
Hon. Jay Knight	No	David Douglas	Yes
Loyd Smith	No	Bryan Brown	Yes
Nick Woolery	No	Frank Simoneaux	No
Yancy Scott	Yes	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	No	Philip Brenner	No
John Tyler	No	Dale Hilliard	Yes

Others Present: Amy Skicki, Caroline Bailey, John Bowen, Daniel Brassil, Andrew DeCandis, Jim Dickinson, Eliza Paul, Carrie Evans, David Fink, Ben Finley, Shixin Gao, James Garland, Brandy George, Donte Green, Veronica Green, Allie Isbell, James Koch, Sharon Ju, Catherine Kato, Stephen Keen, Megan Kennison, Kent McLemore, Justin Kuzila, Vishu Lingala, Graciela Lubertino, Carlos Lugo, Patrick Mandapaka, Carlene Mullins, Natalie G. Lopez, Jamila Owens, Craig Raborn, Alan Rodenstein, Sean Middleton, Tim (Guest), Veronica Waller, Gilbert Washington, Christopher Whaley

Staff Participating:

Mike Burns, Thomas Gray

1. Call to Order

Chair Morad K called the meeting to order at 3:00PM 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, Christopher S seconded.

The motion was approved unanimously with a correction to the spelling of Perri D'Armond under item 2.

- 3. Discussion of the 2045 RTP Updating Strategy
 - a. Outreach Strategy Visioning Outreach Update

Mike B briefly mentioned the public survey and outreach meetings for each county will now start in April rather than March 2022.

Elizabeth W asked if the outreach meetings for county-specific meeting will be in-person or virtual.

Mike B responded that meetings will likely be a combination of in-person and virtual.

b. Transportation Assets – High-Capacity Transit (Thomas Gray)

Thomas G provided an overview of the High-Capacity Transit (HCT) and both the fiscally unconstrained vision and fiscally constrained priority networks, including updated to the network for the RTP Update to reflect updated costs, modeled ridership, new services, and subregional study recommendations that are not included in the original network. Future studies that would start in 2022 were also summarized for Outer Westpark corridor, US 90A corridor, Dayton/US90 corridor, and a Regional Connector Bus Network to supplement the high-capacity network for outlying areas.

The RTP Subcommittee members were then polled with the following question with the results:

Please select the most important goal for the regional transit network:

Congestion reduction

39%

Improved access to jobs and services

36%

Improved air quality

6%

Improved safety

11%

Improved equity

20/

Improved community health

0%

Other

0%

36 responses

James K asked if outreach included employer groups to connector workers to outlying areas such as Katy-Brookshire area perhaps using a public-private partnership opportunity.

Thomas G responded that outreach would include employer groups and Chambers of Commerce and potential take advantage of any public-private partnerships.

Monique J asked if local jurisdictions will be included in the outreach and is interested in the US 90A study for Sugar Land.

Thomas G responded that local communities will absolutely be involved.

Katherine P mentioned at interest in the US 90A corridor and that there's a need to look at options for that area and wanted to be involved in the process.

Thomas G responded that Gulf Coast Rail will be consulted during the planning process.

Charles A mentioned TxDOT projects along I-10 west and SH 36 and SH 35 and would appreciate continued review of those corridors with TxDOT staff.

Thomas G responded that TxDOT will have representation on stakeholder and steering committee groups during the planning process.

- 4. Future Meeting Topics:
 - a. Regional Safety Plan
 - b. Airport/Ferries
 - c. Parking Management
 - d. Continued Freight and Congestion Management Process
 - e. Infrastructure Investment and Jobs Act
 - f. Population projections

Mike B discussed the list of topics for discussion at future meetings, such as regional safety for the next RTP Subcommittee meeting. The RTP Subcommittee members were polled with the following question and results:

Which future meeting topic(s) is of most interest to you (select multiple)?

Regional Safety Planning

13%

Airports / Ferries / Waterways

4%

Parking Management / Park and Rides

9%

Demographics and forecasting (population and employment)

13%

Infrastructure Investment and Jobs Act

18%

Public Transportation (continued discussion)

13%

Active Transportation (continued discussion)

9%

Congestion Management Process (continued discussion)

13%

Freight (continued discussion)

6%

Other

0%

27 responses

Bill Z mentioned that Houston Airport System has been working with H-GAC on a travel survey of airport users. The start of the survey and schedule of sharing results is to be determined. The RTP Subcommittee members were then asked about preference of meeting frequency with a subsequent poll with the following question and results:

How often would you recommend this Subcommittee meet?

Monthly

39%

Bi-monthly

43%

Ouarterly

7%

As needed (no set frequency)

11%

28 responses

Morad K mentioned the potential to meet bi-monthly and will work with H-GAC staff on meeting frequency.

5. Announcements

- a. Next TPC Meeting January 28, 2021 at 9:30AM (Teleconference)
- b. Next RTP Subcommittee Meeting February 9, 2021 at 1:30PM (Teleconference)
 c. Next TAC Meeting February 16, 2021 at 9:30AM (Teleconference)

Morad K mentioned upcoming meetings over the next month.

6. Adjourn

Morad K asked for any other comments. Hearing none, the Chair declared the meeting adjourned at 3:46PM.

Minutes submitted by: Mike Burns



Transit Asset Management (TAM)



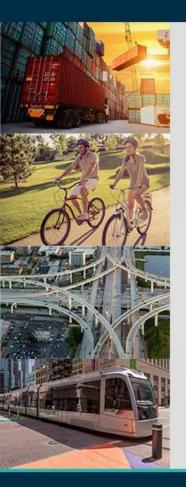
- Purpose: Ensure State of Good Repair
- Overview:
 - Each transit agency has a Transit Asset Management
 Plan
 - Each MPO sets regional targets
 - H-GAC sets the regional targets (biennially) for asset management using the information in each Agency's TAM Plan

Transit Asset Management (TAM)

Asset Category	Performance Measure
Rolling Stock	Age - % of Revenue Vehicles exceeding their Useful Life Benchmark (ULB)
Equipment	Age - % of Non-revenue Vehicles exceeding their Useful Life Benchmark (ULB)
Facilities	Condition - % of Facilities with a condition rating below 3 on the TERM scale (Marginal or Poor)
Infrastructure	Performance - % of Rail track segments, signals and systems with performance restrictions



Transit Asset Management (TAM)



- Current Process:
 - Use updated agency TAM Plans to calculate current performance
 - Use current performance to set next target



Regional	TAM Performance
	Performance Targets and Actuals by Year

Targets

11%

46%

55%

0%

Note: A lower percentage indicates better conditions of the transit assets.

2018

Baseline

11%

46%

55%

0%

Asset Category

Rolling Stock (revenue

vehicles)

Equipment (non-

revenue vehicles) **Facilities** (buildings and

structures)

Infrastructure (rail tracks,

> signals & systems)

Regional	TAM	Perfor	ma	nce
		_		

Regional	TAM Peri	ormance

Regional T	AM Performance
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Regi	onal	TAM	Perfo	orman	ice

Regional	TAM Pertormance

kegionai	IAM P	ertori	mance	
		_		

Regional	TAM Performance

Regional	TAM	Performanc	e

Regional	TAM Performance	
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Regional	TAM I	Performance
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2020

Actuals

10%

46%

55%

0%

Achieved

Targets

10%

46%

54%

0%

2022

Actuals

10%

46%

45%

0%

Achieved

Proposed Targets

2026

10%

46%

45%

0%

2024

10%

46%

45%

0%

Transit Investments to Watch



- Over \$40 million transit investments in the TIP (METRO, City of Conroe, The Woodlands Township)
- Fort Bend County 28 new buses / service to downtown

TAM Performance Targets – Proposed Timeline



- **2022**
 - January RTCS Information
 - February RTCS Endorsement
 - March RTP & TIP Subcommittee Information
 - March 2023-2026 TIP Public Comment & Review Period
 - April RTP & TIP Endorsement; TAC/TPC Information
 - May- TAC/TPC Action



Discussion/Questions?







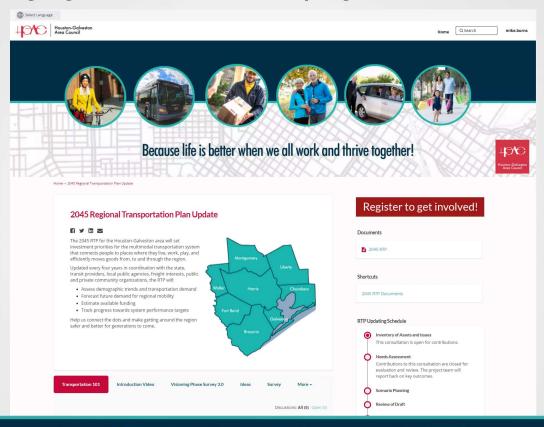
RTP Update Schedule

- Current Plan approved by TPC on May 24, 2019
 - Conformity Concurrence August 2, 2019
- Expires: RTP / Conformity: August 2, 2023



RTP Update - Imagery

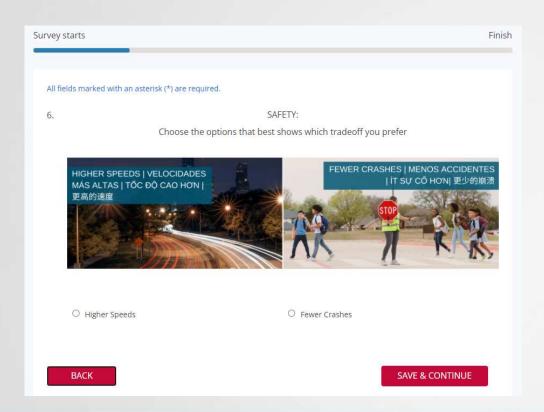
Imagery and Messaging for Website, Surveying, and Social Media promotion





RTP Update - Imagery

Imagery and Messaging for Website, Surveying, and Social Media promotion









RTP Goals - Safety, ITS, Incident Management

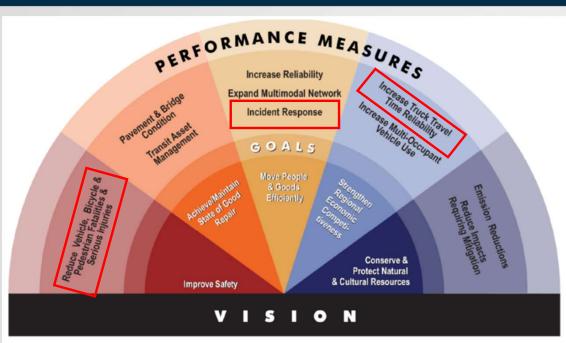


Figure 2-1: 2045 RTP Vision, Goals, and Performance Measures

Other Considerations:

- 1. Vision Zero:

 "The TPC commits to support transportation projects and programs to eliminate traffic fatalities in the region by the year 2050."
- 2. Design vs Behavior
 - Aggressive Driving
- 3. Enforcement Priorities
- 4. DWI-Related Crashes
 - Texas highest number of fatalities,
 5th highest rate in 2019 (NHTSA)
- 5. Intersection Crashes (40%)



Data Reporting - Safety

- Fatalities / Serious Injuries Trends
 - Total crashes vs fatalities
 - Speeding and Motorcycle crash increase

- Top Crash Types total, serious injuries, fatalities
 - Intersection-related (35% of all crashes)
 - Distracted Drivers (13% of all crashes)
 - Pedestrians (25% of fatalities)
 - Motorcycles (12% of fatalities)

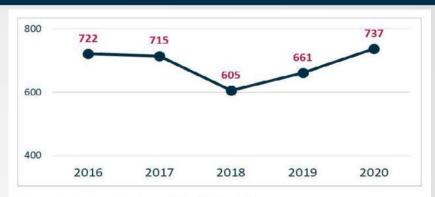


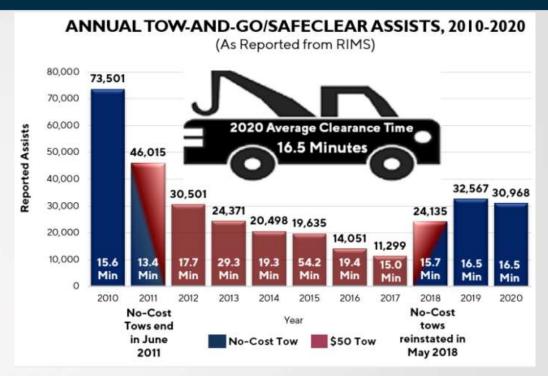
Figure 2: 8-County Annual Traffic Fatalities

CRASH TYPE	Percentage of Fatalities
Intersection-related	26%
Pedestrian	25%
Unrestrained	24%
Impaired Driving (DUI)	21%
Speeding	15%
Motorcycles	12%



Data Reporting – ITS / Incident Management

- Crash Clearance
 - 10% target reduction in clearance time
- Address Freight Crashes
 - Truck Parking
 - Clearing / Recovery



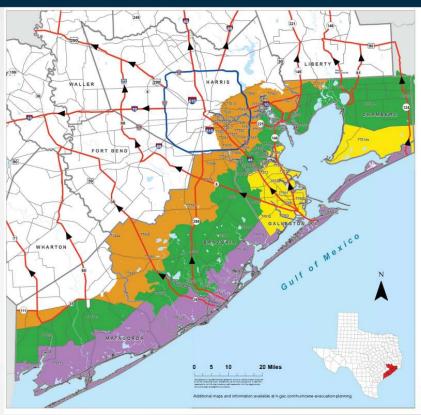
NOTE: 2018 corrected the data collection procedure. Clearance time started when tow truck dispatched to scene and ended after clear time (response + clearance).



Data Reporting - Emergency Management

Emergency Management Activation

- Flooding
 - Monitor locations along major roadways (TxDOT) and bayous (Flood Control Districts)
- Major Events
 - Increase of storm and flooding events
- Activations Trend
 - **Hurricanes and Tropical Storms**
 - Special Events / Major Sporting Events



Brazoria, Chambers, Galveston, Harris, and Matagorda **Hurricane Evacuation** Zip-Zones Coastal, A, B, C

	ZIP Z	ONE CO.	ASTAL	
77414s	77422s	77465s	77534s	77541
77550	77551	77554	77563	775778
77623				
	Z	P ZONE	A	45
77058s	77510	77514s	77518	77539
77563	77565	77568	77573	77586
77590	77591	- 2		6
	Z	P ZONE	8	
77058n	77059	77062	77414n	774221
77465n	77507	77511	77514n	77515
77517	77520	77523	77531	77534r
77546n	77546s	77560	77566	77571
77577n	77597	77598	77665	
	Z	P ZONE	C	
77011	77012	77013	77015	77017
77023	77029	77034	77049	77061
77075	77087	77089	77430	77444
77480	77486	77502	77503	77504
77505	77506	77521	77530	77535
77536	77547	77562	77578	77581
77583	77584	77587		72

Route Designation









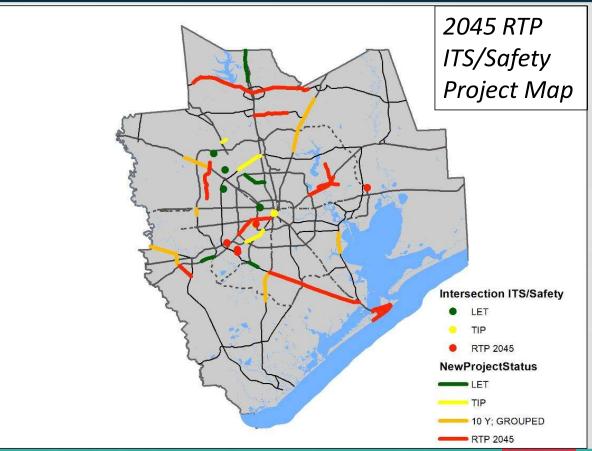


Evniration Date: December 31, 20:



Strategies - Improve Safety

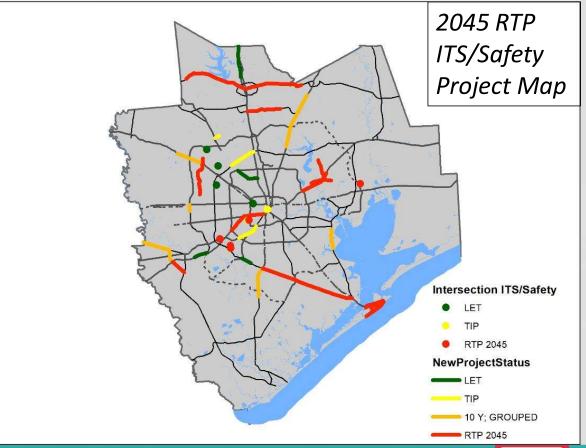
- Capital Improvements
 - Cost-benefit analysis
 - Regional Safety Plan's Safety Countermeasures
 - Subregional Studies
 - Intersection Safety Assessment
 - Bicycle-Pedestrian and roadway countermeasures





Strategies - Improve Safety

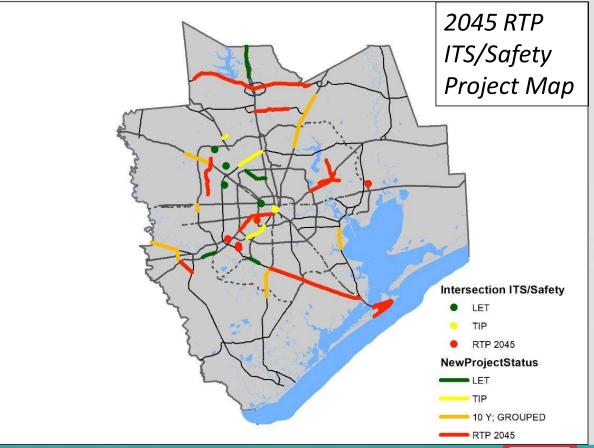
- Education and Enforcement
 - TxDOT's DWI / Speeding / Seat Belt Enforcement Task Forces
 - Teen and Mature (65+) drivers
 - Bicycle / Pedestrian safety
 - Reduce red light running





Strategies - Improve Safety

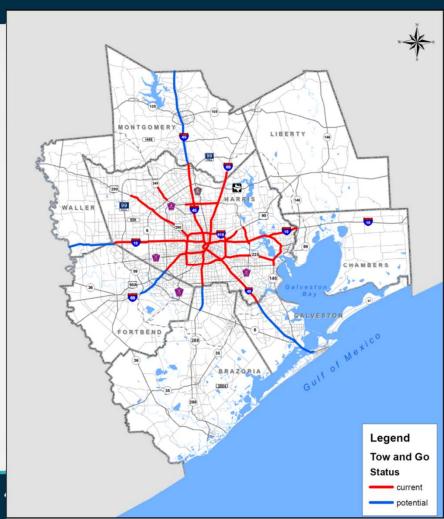
- Performance Monitoring
 - Congestion Management Process (Tow and Go, ITS)
 - Annual State of Safety Report
 - Performance Evaluation Report to TxDOT (online at H-GAC's Performance Measure website)





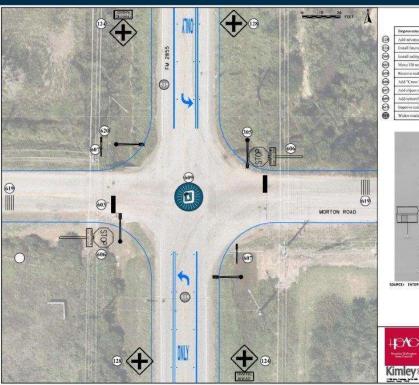
Strategies - Mobility and Economy

- Regional ITS Plan
 - Build network
 - Provide redundancy
 - Urban/rural ITS deployments
 - Traffic signal operations
- Tow and Go Network
 - Expand Network
 - 244 Miles Existing Centerline Miles of Freeway

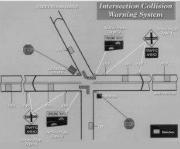


RTP Update - Next Steps

- On-going / Anticipated Studies
 - **Intersection Safety Assessment**
 - Subregional Studies Crash Analysis and Safety Countermeasures
- TIP Projects
 - Safety/ITS funding
- Future Studies and Projects
 - Roadway Safety Audits (FY 2023)
 - Safety Countermeasures
 - Education and enforcement programs
 - Form a Safety Task Force through TPC
 - Add additional Performance Measures



Improvement	Time
Add sovemed intersection warning signs on EM 2855	Store
Install Intersection Collision Warning System (ICWS)	
Install safety lighting at intersection	Stort
Move EB stop har closer to edge of travel way	
Recovered estate signs on NW corner	
Add "Cross Traffic Does Not Stop" plaque to stop signs on FB & WB approaches	
Add object markers to culverts on E and W logs of intersection	
Add retroreflective backplates to flashing beacon	
Improve existing results strips on EB and WB approaches	
Widen roadway to movide NB and SB dedicated left-turn lanes	Mid





WALLER COUNTY INTERSECTION SAFETY ASSESSMENT





Project Team





Veronica Green Project Manager



Allie Isbell

Program Manager



Keith Bucklew

Project Manager



Reddy Edulakanti Deputy

Project Manager







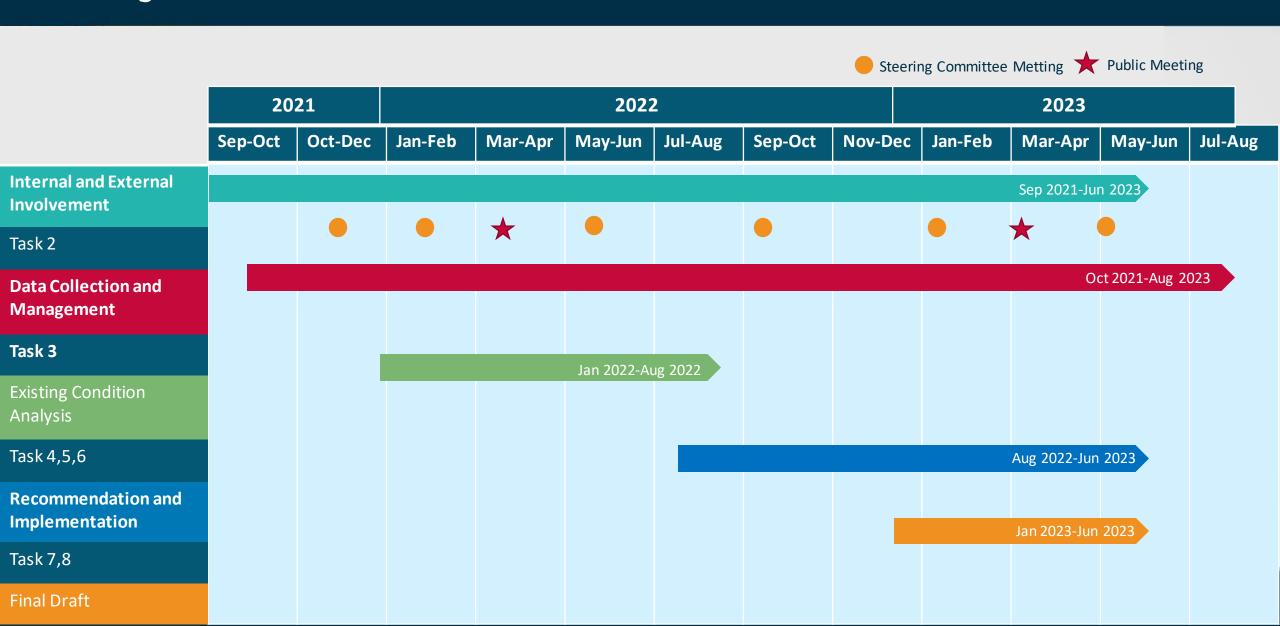
What is The Regional Goods Movement Plan?

The Regional Goods Movement Plan is a long-range plan for the goods movement system in the Houston-Galveston Region

- First iteration of the Regional Goods Movement Plan was published in 2013
- Prioritizes freight-related activities



Project Schedule



Vision & Goals

VISION

A multimodal freight transportation system that is efficient, reliable, and safe, that supports the economy, the environment, and equity.

GOALS

- Mobility
- Safety
- Infrastructure new projects & maintain existing assets
- Economic development
- Environment
- Equity



Study Area



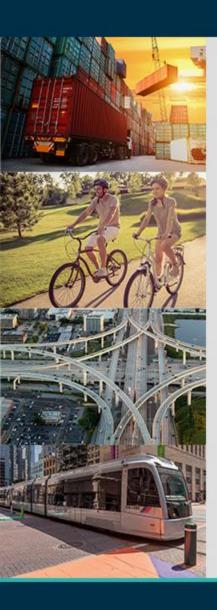


Roadmap to Regional Goods









Commodity Flow Analysis



Forecast of Tonnages





The FAF <u>unconstrained</u> forecast for the Houston BEA is a 64% increase in tonnage (1.5% annual growth) from 2017 to 2050

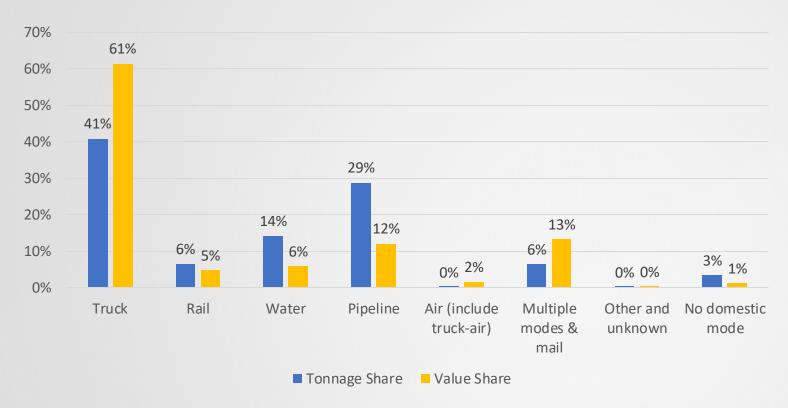
Forecast of Tonnages by Direction, 2017 - 2050



Source: Freight Analysis Framework Version 5.2 (FAF5.2) 2017 Data. Note: "Pass through" flows (not included in FAF5.2) were additionally estimated by the consultant team based on likely origin-destination path routings for US traffic flows.



Modal Share by Tonnage and Value





Trucks move the most freight by tonnage share (41%) and freight value (61%)



Pipelines account for the second largest share of freight tonnage (29%) and third largest share of freight value (12%) by moving primarily crude petroleum and coal not-elsewhere-classified

Source: Freight Analysis Framework Version 5.2 (FAF5.2) 2017 Data.

Note: "Pass through" flows (not included in FAF5.2) were additionally estimated by the consultant team based on likely origin-destination path routings for US

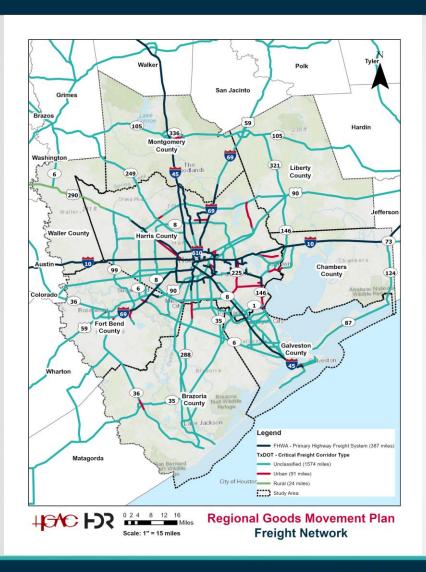




Existing Conditions



Freight Network



- FHWA Primary Highway Freight System:
 387 miles in the H-GAC eight-county region
- Texas Highway Freight Network: 1689 miles in the H-GAC eight-county region
- Critical Urban Freight Corridor (CUFC) -In 2017, 91 miles of corridors were identified as CUFC by H-GAC
- Critical Rural Freight Corridor (CRFC) –
 24 miles of corridors identified as CRFC primarily in Waller County

Source: National Highway Freight Network Shapefile and Data Description, FHWA, Date: 02/27/2020

Texas Highway Freight Network Shapefile and Data Description, TxDOT, Date: 09/10/2020



TxDOT CUFC Criteria

CUFCs are required to meet one or more of the following criteria:

- 1. A public roadway that Connects an Intermodal facility to:
 - The Primary Highway Freight System (PHFS)
 - The Interstate System
 - An intermodal freight facility
- 2. Located within a corridor of a route on the PHFS and provides an alternative highway option important to goods movement
- 3. Serves a major freight generator, logistic center, or manufacturing and warehouse industrial land
- 4. Important to the movement of freight within the region, as determined by the MPO or the state

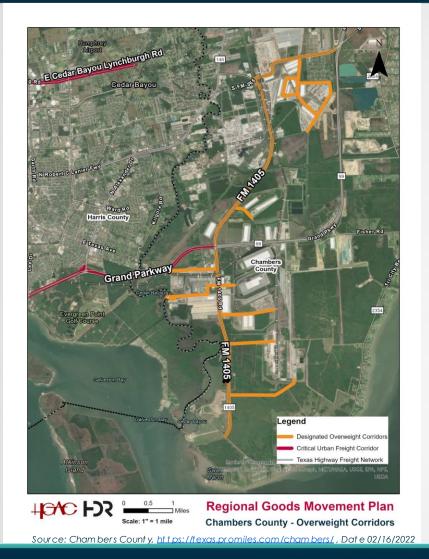
Source: Texas Freight Mobility Plan, TxDOT, Date: 03/07/2018

H-GAC Criteria

 In addition to the above, whether there are projects planned in the next five years



Overweight Corridors





Regional Goods Movement Plan

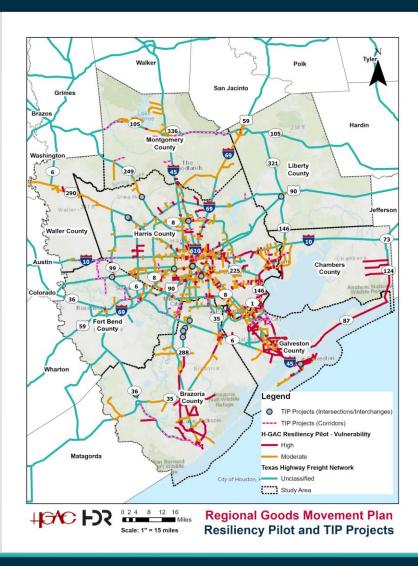
Scale: 1" = 4 miles

Port of Freeport - Overweight Corridors

Source: Port of Freeport, https://texas.promiles.com/PortFreeport/, Date 02/16/2022



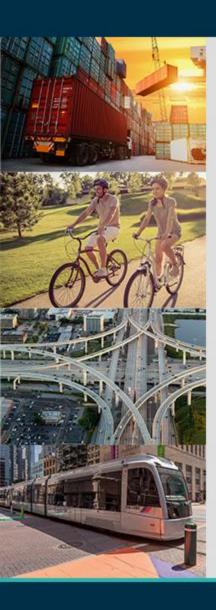
Resiliency and Future Projects



- H-GAC resiliency pilot classifies the corridors in the region based on the vulnerability and criticality risk
- Segments along the freight network(not currently CUFC) with an overall vulnerability risk of "High" or "Moderate" were identified
- H-GAC Transportation Improvement Program (TIP) projects along the freight network(not currently CUFC) were also identified

Source: HGAC

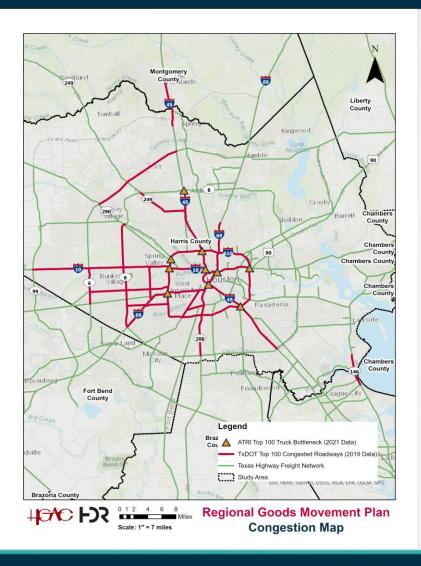




Safety



Congestion



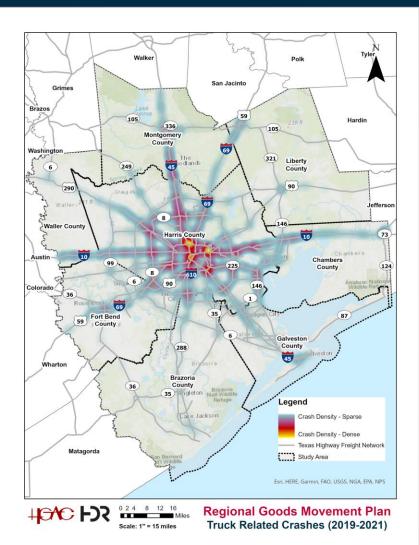
- American Transportation Research Institute (ATRI) Top 100 Truck Bottlenecks in 2021 – 10 bottlenecks in the study area, all in Harris County
- Top 100 most congested roadways in Texas for the Year 2019 (pre-pandemic) – Most of the congested roadways in study area located in Harris County
- 34% of the Texas Highway Freight Network in Harris County is congested

Source: American Transportation Research Institute, https://truckingresearch.org/2022/02/08/top-100-truck-bottlenecks-2022/, Date 02/16/2022

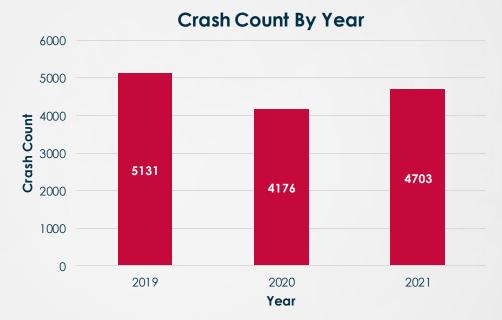
TxDOT Top 100 Most Congested Roadways, https://gis-txdot.opendata.arcgis.com/datasets/7f23449889f94a539a24ce4f0ac143a8_0/about, Date 02/07/2021

ORGANIZATION

Truck Related Crashes

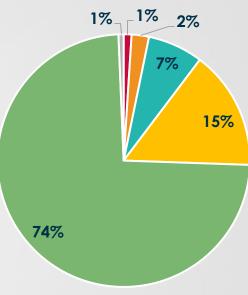


- 14,010 truck related crashes were observed in the 3-year period (2019 – 2021)
- The hotspots for these crashes are primarily located on the IH 610 interchanges



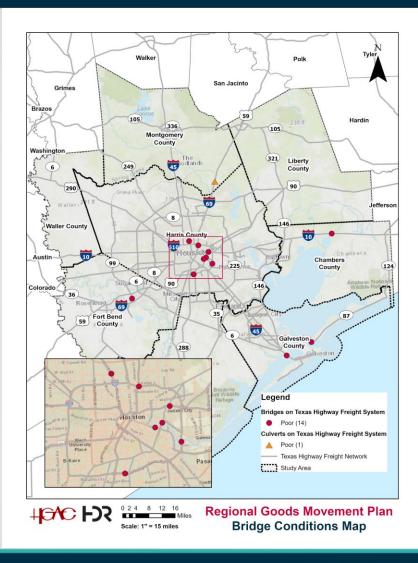
Source: TxDOT CRIS Data, 2019-2021





- K Fatal Injury (141)
- A Suspected Serious Injury (311)
- B Suspected Minory Injury (991)
- C Possible Injury (2136)
- O Property Damage Only (10339)
- Unknown (92)

Bridge Conditions



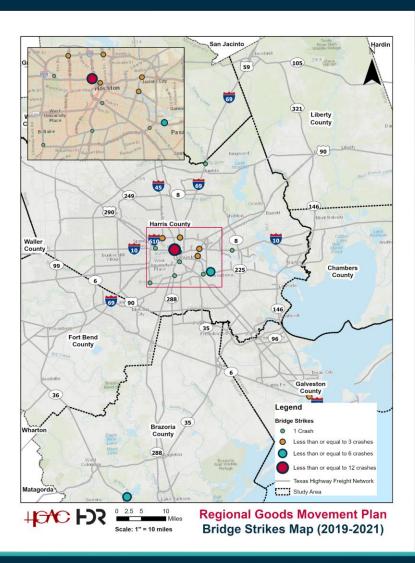
 14 bridges on Texas Highway Freight Network are in poor condition

BRIDGE LOCATION	COUNTY
IH 10 at Turtle Bayou	Chambers
Navigation Blvd. at Mack Rd.	Harris
IH 10 WB at McCarty St/US 90A	Harris
IH 45 SB at Crosstimbers St.	Harris
IH 45 NB at Crosstimbers St.	Harris
IH 610 WB at Holmes Rd.	Harris
IH 610 EB at Holmes Rd.	Harris
IH 610 at Houston Ship Channel	Harris
US 59 SB/IH 610 EB Interchange	Harris
US 90A SB at Buffalo Bayou	Harris
IH 45 SB at BNSF RR	Galveston
IH 45 NB at BNSF RR	Galveston
SH 87 Ferry N Slp 4 at Galveston Bay	Galveston
SH 99 at Brazos River	Fort Bend

Source: TxDOT Bridges, TxDOT, Date: 01/21/2022

Bridge/Culvert Condition is determined by the lowest rating of condition ratings for Deck, Superstructure, Substructure, or Culvert. If it is less than or equal to 4, the classification is Poor

Bridge Collisions (2019-2021)



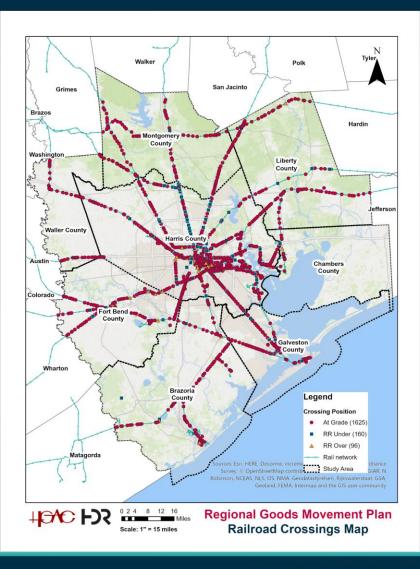
 Commercial Motor Vehicle crashes between 2019-2021 involving bridge strikes were identified. Any bridge with clearance less than 16 ft is summarized below

LOCATION	# OF CRASHES	MIN. CLEARANCE	COUNTY	RR BRIDGE
IH 10 at Houston Ave.	12	14 FT 3 IN	Harris	-
Lawndale St. at UP RR Bridge	6	13 FT 0 IN	Harris	Y
County Rd. 400 at UP RR Bridge	5	12 FT 0 IN	Brazoria	Y
IH 610 at Hardy St.	3	13 FT 5 IN	Harris	-
IH 10 at UP RR Bridge	3	14 FT 6 IN	Harris	Υ
Clinton Dr at UP RR Bridge	3	13 FT 9 IN	Harris	Υ
IH 45 at SH 146	2	14 FT 3 IN	Galveston	-
IH 610 at Durham Dr.	2	13 FT 4 IN	Harris	-
Judge Alfred Hernandez Tunnel Bridge	2	12 FT 9 IN	Harris	-
Hamblen Rd. U-Turn at IH 69/US 59	1	13 FT 0 IN	Harris	-
IH 610 at Broadway St.	1	14 FT 1 IN	Harris	-
SH 288 at US 90 A	1	15 FT 7 IN	Harris	-
IH 610 at N Braeswood Blvd.	1	15 FT 2 IN	Harris	-
IH 10 at Freeport St.	1	14 FT 2 IN	Harris	-
Hempstead Rd at UP RR Bridge	1	13 FT 10 IN	Harris	Υ
IH 45 at Jefferson St.	1	15 FT 5 IN	Harris	-

Source: TxDOT CRIS Data, 2019-2021



Railroad Crossings



- Railroad Crossings in the H-GAC eightcounty region was identified.
- The 3 Major Class I Railroads identified were UP, BNSF, and KCS (only in Fort Bend County)
- A total of 1881 crossings were observed in the H-GAC eight-county region
- 85% of the crossings are at-grade crossings

Source: Federal Railroad Administration, USDOT, https://railroads.dot.gov/



Next Steps

- Acquire and review Transearch dataset to identify Commodity Flows in and out of the region
- 2. Review and use H-GAC's Activity Based Model to establish truck origin-destination trends and validate against the land use information
- 3. Dive deep into existing conditions datasets and previous reports to identify issues and challenges
- 4. Identify Critical Urban Freight Corridors using the information summarized in previous three steps



Public Engagement and Data Tools



Regional Goods Movement Update

https://engage.h-gac.com/regional-goods

- Access links to the data tools
 - H-GAC Region FAF Data Tool
 - Regional Goods Movement Plan Update Storyboard
- Subscribe to meeting updates
- Access to previous meeting
- Review meeting materials



Contact For Questions



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PUBLIC MEETINGS --TRANSPORTATION IMPROVEMENT PROGRAM (TIP)



Our region is growing. Our residents' needs are evolving. Our transportation system must grow and evolve too!

The 2023-2026 TIP update includes more than \$7 billion regionally-significant transportation infrastructure projects and programs anticipated for implementation over four years. They include:

- Roadway upgrades and widening projects to help mitigate congestion and facilitate freight movement
- Bus-rapid transit and multimodal street developments for high-occupancy vehicles, bicyclists, and pedestrians
- Critical safety improvements
- Air quality improvement projects

VIRTUAL PUBLIC MEETINGS March 22, 2022 2 P.M. OR 5:30P.M.

H-GAC will also accept public comments March 4 - April 4, 2022. To submit a comment:

- Email comments to: PublicComments@h-gac.com
- Submit comments by phone: 1-855-363-2516

Register and learn more at: www.h-gac.com/transportation-improvement-program

PROJECTS INCLUDED IN 2023-2026 TIP UPDATE:

Harris County - Inner Katy BRT (multimodal dedicated bus-rapid transit (BRT) busway) | \$316 M

Brazoria/ Galveston County - FM 517 Reconstruction and Widening Project | \$122 M Galveston County - IH 45 South Reconstruction and Widening | \$125 M

Montgomery County - SH 105 Reconstruction and Widening | \$175 M

Liberty County - US 90 Grade Separation at UPRR | \$69 M







H-GAC will provide a Spanish interpreter and an American Sign Language interpreter for the hearing impaired. Additional language or accommodation requests can be made by calling 832-681-2583 or emailing Robyn.Egbert@h-gac.com within 48 hours of the event.