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#

> July 13, 2022 1:30PM

AGENDA

- 1. Call to Order Roll Call Attendance
- 2. Acceptance of Minutes *From meeting of May 11, 2022*
- 3. Reliability, Congestion, and Air Quality Performance Measures (Karen Owen)
- 4. 2045 RTP Update Visioning Phase Update (Mike Burns)
- 5. 2045 RTP Update Other Elements for Discussion
 - a. Parking
 - b. Resiliency
 - c. Bipartisan Infrastructure Law
- 6. Announcements
 - a. Next TAC Meeting July 20, 2022 at 9:30AM (Hybrid)
 - b. Next TPC Meeting July 29, 2022 at 9:30AM (Hybrid)
 - c. Next RTP Subcommittee Meeting August 10, 2022 at 1:30PM (Teleconference)
- 7. Adjourn

PTP Subcommittee Poster

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|-----------------------|--------------------|------------------------|-----------------|
| Nominated Position | Primary-Name | Organization | Alternate-Na |
| Local Government | Morad Kabiri | City of Friendswood | Jildardo Arias |
| Transit | Perri D'Armond | Fort Bend County | Stacy Slawinski |
| Active Transportation | Joe Cutrufo | Bike Houston | Nikki Knight |
| Airport | Bill Zrioka | Houston Airport System | Marcel Allen |
| Business Interest | Elizabeth Whitton | Energy Corridor | Elijah Williams |
| Citizen Interest | Andrea French | Scenic Houston | Jonathan Brooks |
| Environmental | Harrison Humphreys | Air Alliance Houston | Vacant |
| Local Government | Todd Stephens | The Woodlands Township | Ruthanne Haut |

Brazoria County

City of Pearland

Harris County

Waller County

Port of Houston

Port of Freeport

TxDOT-HOU

TxDOT-BMT

Harris County

METRO

GCRD

City of League City

City of Houston-P&D

City of Sugar Land

Karen McKinnon

Hon. John Bowen

Robert Upton, P.E.

Loyd Smith, P.E.

Monique Johnson

Katherine Parker

Charles Airiohuodion

David Fields

Yancy Scott

Bruce Mann

Mike Wilson

Lisa Collins

Ken Fickes

Taylor Marcantel

Vacant

Local Government

Planning

Port

Port

State

State

Toll Road

Transit

Transit

Organization

City of Friendswood

SE Management Dist.

Houston Airport System

The Woodlands Township

City of Houston - Planning

Fort Bend County

Energy Corridor

Brazoria County

City of Pearland

Harris County

Liberty County

Port of Houston

TxDOT-HOU

TxDOT-BMT

Harris County

METRO

Port of Galveston

TSU

City of League City

City of Sugar Land

LINK Houston

Alternate-Name

Matt Hanks

Peter Eccles

Brannan Hicks

Hon. Jay Knight

Carol Lewis, PhD

Rick Ramirez

Rohit Saxena

Rodger Rees

Scott Ayres

Jose Pulido

Vacant

Jeffrey English

Vernon Chambers

Christopher Sims

Rajendra Shrestha

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

May 11, 2022 1:30PM Minutes

Member Attendance:

| Primary-Name | Present | Alternate-Name | Present |
|----------------------|---------|-------------------|---------|
| Morad Kabiri | Yes | Jildardo Arias | Yes |
| Perri D'Armond | Yes | Stacy Slawinski | No |
| Joe Cutrufo | No | Nikki Knight | No |
| Bill Zrioka | Yes | Marcel Allen | No |
| Elizabeth Whitton | Yes | Elijah Williams | No |
| Andrea French | No | Jonathan Brooks | Yes |
| Harrison Humphreys | Yes | VACANT | - |
| Todd Stephens | Yes | Ruthanne Haut | No |
| Karen McKinnon | No | Matt Hanks | No |
| Hon. John Bowen | No | Christopher Sims | Yes |
| Robert Upton, P.E. | No | Rajendra Shrestha | No |
| David Fields | Yes | Peter Eccles | No |
| Loyd Smith, P.E. | Yes | Brannan Hicks | No |
| Monique Johnson | Yes | Rick Ramirez | No |
| Yancy Scott | No | Hon. Jay Knight | No |
| Katherine Parker | Yes | Carol Lewis, PhD | No |
| Bruce Mann | Yes | Rohit Saxena | No |
| Mike Wilson | Yes | Rodger Rees | No |
| Charles Airiohuodion | Yes | Jeffrey English | Yes |
| Lisa Collins | No | Scott Ayres | Yes |
| VACANT | - | VACANT | - |
| Ken Fickes | Yes | Vernon Chambers | Yes |
| Taylor Marcantel | Yes | Jose Pulido | Yes |

Others Present: Amy Skicki, Caroline Bailey, Daniel Brassil, Jose Cantu, Chelsea Young, Andrew DeCandis, Jim Dickinson, Carrie Evans, David Fink, Shixin Gao, James Garland, Brandy George, Thomas Gray, Donte Green, Allie Isbell, James Koch, Susan Jaworski, Ayo Jibowu, Sharon Ju, Megan Kennison, Patrick Mandapaka, Lucinda Martinez, Melissa Beeler, Carlene Mullins, Jamila Owens, Craig Raborn, Tim (guest), Chris Van Slyke, Veronica Waller

Staff Participating:

Mike Burns, Jamila Owens, Justin Kuzila, Karen Owen, Christopher Whaley

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. Election of Officers

Bruce Mann made a motion to appoint Morad Kabiri as Chair and Perri D'Armond as Vice Chair, seconded by David Fields.

The motion was approved unanimously.

3. Acceptance of Minutes

Perri D made a motion to approve, Bill Z seconded.

The motion was approved unanimously.

4. Action Items

a. Transit Asset Management (TAM) Plan – request to recommend CY 2024-2026 Performance Targets (Jamila Owens and Chris Whaley)

Chris W discussed purpose of the TAM Plan and described the rolling stock, equipment, facilities, and infrastructure asset categories. The performance targets and actuals were discussed for 2018, 2020, 2022, and the proposed 2024 and 2026 targets. Current transit investments that contribute to achieve the targets were summarized, which \$40 million in transit investments in the TIP. Action was requested to endorse the TAM Plan.

Elizabeth W made a motion to endorse the Regional Transit Asset Management Performance Targets proposed for 2024 and 2026. Seconded by Mike W. The motion was unanimous.

5. Review Timeline for System Reliability, Freight, and Congestion Management Air Quality (CMAQ) Performance Measures (PM3) (Karen Owen)

Karen O summarized the details of the timeline and activities for the reliability, congestion, and air quality performance measures and target setting. The timeline included coordination with other MPOs, TxDOT, Texas Transportation Institute, and various H-GAC Committees in June and July in an effort to meet a September 30, 2022 deadline for updated targets and reporting. There was no other discussion.

6. Transit-Oriented Development – Website (Justin Kuzila)

Justin K presented a definition of Transit-Oriented Development (TOD) and a summary of the information included on H-GAC's TOD website and H-GAC's approach to TOD in the region so that it aligns and contributes to region's transportation goals. The website also includes mapping tools with demographic and economic data, and various resources, such as City of Houston's TOD Standards and METRO's TOD Study. Next steps included a list of potential efforts, such as a regionwide TOD plan and evaluation process.

Taylor M mentioned that METRO is in the early stages in starting a joint development/transitoriented development program and encouraged additional coordination with area agencies. David F asked if a TOD working group would be set up and mentioned interest in participating. He also noted that parking is a key element in successful TODs.

Justin K responded that ultimately a working group would be set up after internal coordination. There was no other discussion.

7. Discussion of the 2045 RTP Updating Strategy

a. Outreach Strategy – Visioning Outreach Update (Mike Burns)

Mike B briefly summarized the updating schedule and visioning outreach efforts, which included surveying, in-person meetings, and a virtual meeting on June 2. He also encouraged help in spreading the word to participate in the visioning survey.

There was no other discussion.

b. Aviation (Mike Burns)

Mike B presented graphs depicting on monthly and annual passengers and air cargo totals at Intercontinental and Hobby airports, which are the regions two commercial airports. A listing of capital projects was presented for discussion, which included mostly transit and a new bicycle and pedestrian project to improve access to Hobby Airport.

Bill Z mentioned the Houston Airport Systems is beginning a coordination effort with METRO on transit access to Intercontinental Airport for staff and general public. He also noted that the improvements around Ellington Field for Space Port would improve access to the facility and mitigate traffic impacts to area neighborhoods.

Mike B summarized other aviation elements such as Urban Air Mobility and electric vertical takeoff and landing vehicles, airport travel surveys, and roadway access improvements to airport facilities for passengers and cargo.

David F mentioned he is representing the region on a statewide task force to better understand issues and develop recommendations for Urban Air Mobility.

There was no other discussion.

c. Ferry Operations (Mike Burns)

Mike B presented graphs of monthly and annual passenger and vehicle ridership for both the Galveston and Lynchburg Ferries. A listing of capital projects for both operations were also presented for discussion.

There was no other discussion.

d. High Speed Rail (Mike Burns)

Mike B presented the Texas Central project for discussion, and noted it is included in the current RTP.

There was no other discussion.

8. Announcements

- a. Next TAC Meeting May 18, 2022 at 9:30AM (Teleconference)
- b. Next TPC Meeting May 20, 2022 at 9:30AM (Teleconference)
- c. Next RTP Subcommittee Meeting June 15, 2022 at 1:30PM (Teleconference)

Morad K mentioned upcoming meetings over the next month.

9. Adjourn

Morad K asked for any other comments. Hearing none, the Chair declared the meeting adjourned at 2:24PM.

Minutes submitted by: Mike Burns



Reliability, Congestion & Air Quality

Reliability

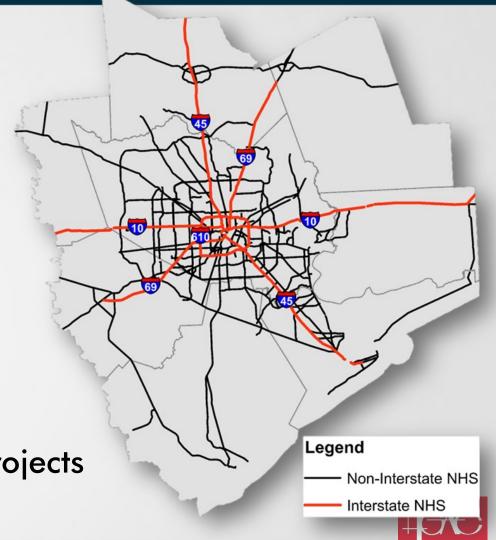
Personal & Truck Travel

Congestion

- Peak Hour Excessive Delay
- Non-Single Occupancy Vehicles

Air Quality

Tailpipe emissions reduced from CMAQ projects



Federal Performance Measures



- 2022 Actual Performance based on previous year
 - 2022 performance is based on 2021 traffic conditions
- 2024 and 2026 Target Setting
 - Can adjust 2026 targets in two years
- No penalties if targets aren't met

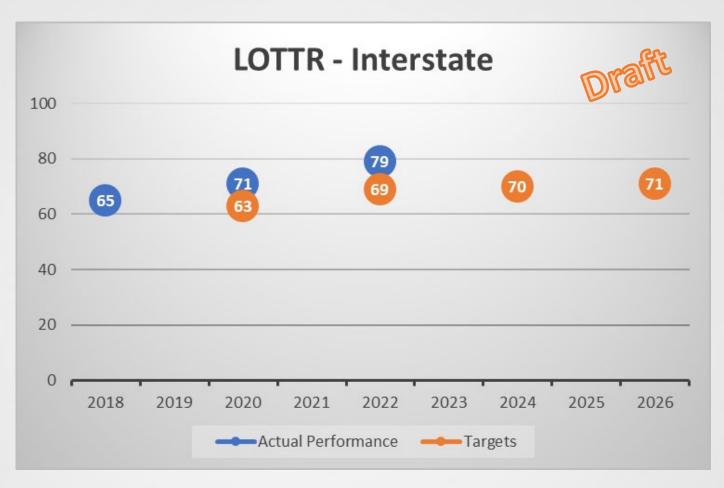


Percentage of Reliable Person-Miles (Annual)

Level of Travel
Time Reliability
(LOTTR) =
Ratio of the
80th percentile
(bad traffic) / 50th
percentile (normal traffic)

Example: For a 30-minute trip:

- Reliable = 30 to 45 mins.
- Unreliable = 45 mins. or longer



Targets met in 2020 and 2022

An increased value indicates improvement

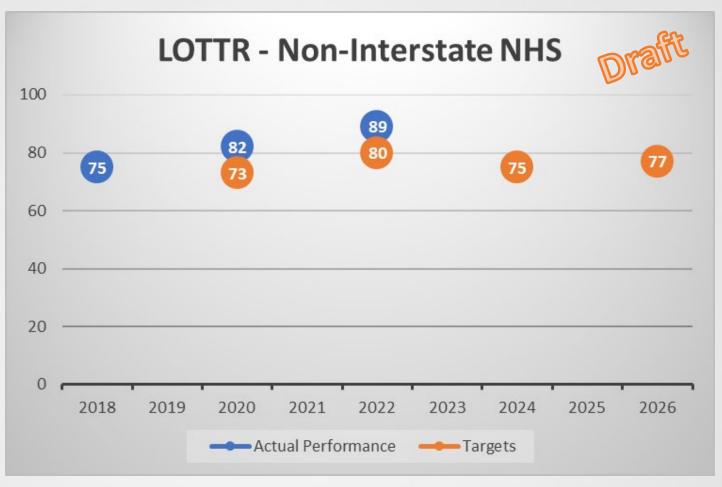


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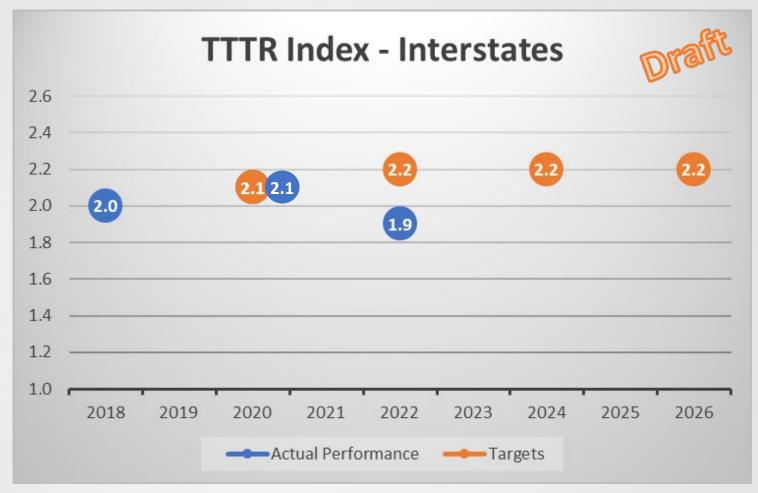


Truck Travel Time Reliability Index

Ratio of 95th (very bad traffic) percentile / 50th (normal) percentile

Truck Travel Time
Reliability (TTTR) Index time a truck driver adds
to a median trip length
to arrive on-time, 95%
of the time.

Example:
What is normally a trip
of 30 minutes X 2.1
(truck index) = 63 mins.

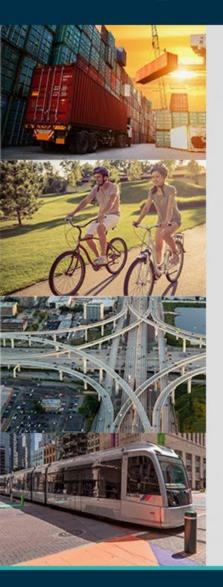


Targets met in 2020 and 2022

A decreased value indicates improvement



Project Types & Strategies



- Transportation Improvement Program (TIP)
- Regional Transportation Plan (RTP)
- Tow and Go Program
- TranStar
- Commute Solutions







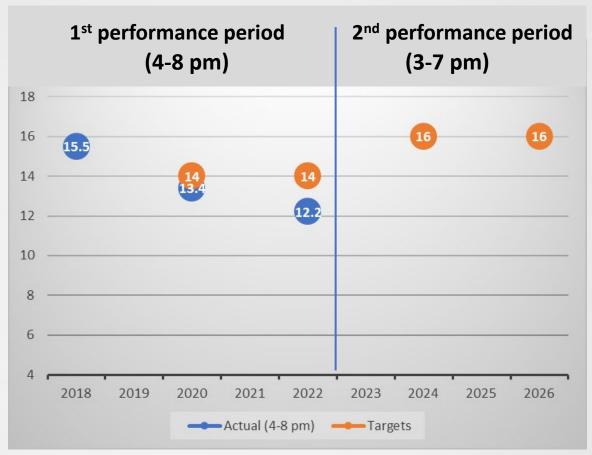
Peak Hour Excessive Delay

The annual average hours of extra travel time on the National Highway System in excessive conditions.

Peak Periods (Mon-Fri)
AM Peak (6-10 am)
PM Peak (4-8 pm) less delay or
(3-7 pm) more delay

For a speed limit of 60 mph (60% of 60 mph), the excessive delay occurs below 36 mph.

Houston Urban Area





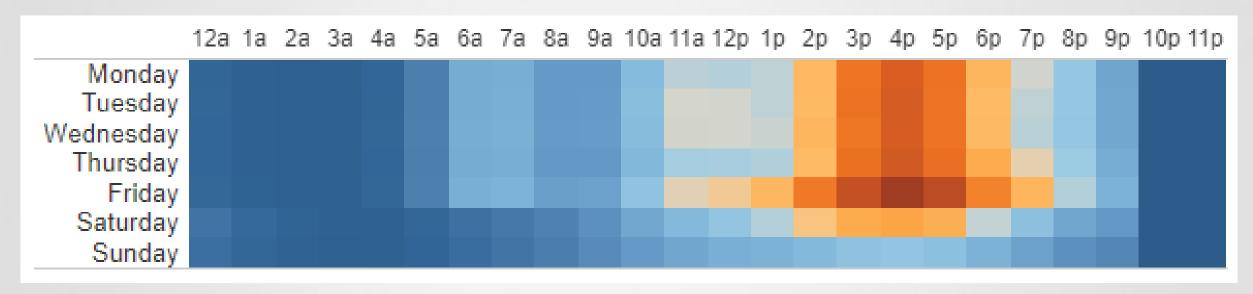


Targets met in 2020 and 2022



Excessive Delay - Evening Peak Period

(4-8pm) versus (3-7pm)



Congestion levels – Houston Urbanized Area



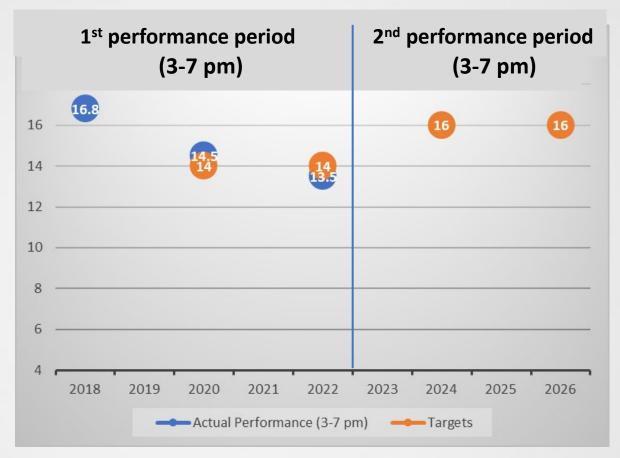
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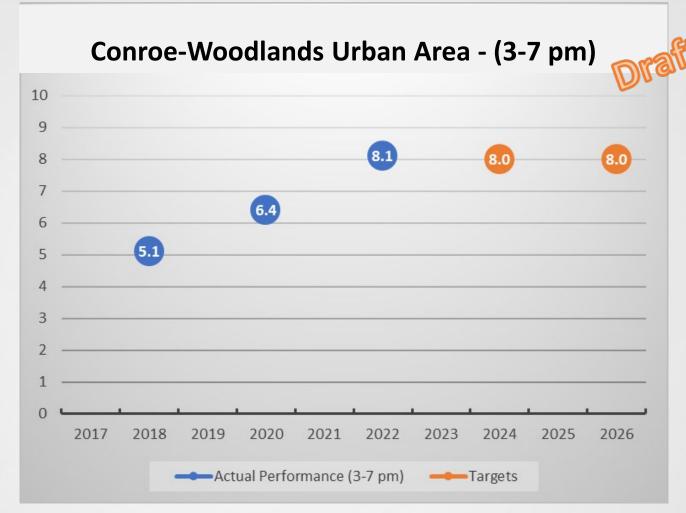


Peak Hour Excessive Delay

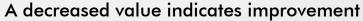
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New target setting requirement for 2024 & 2026



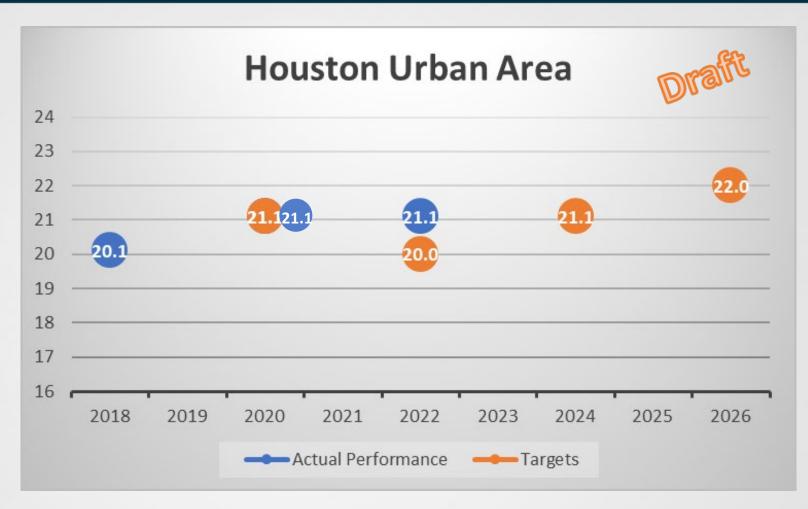


Percent of Non-Single Occupant Vehicles

Percent of Work Trips made in Non-Single Occupancy Vehicles

Carpooling
Riding public transportation
Walking
Bicycling
Working from home
Taxicab, motorcycle
or other means

Based on American Community Survey 5-year averages



Targets met in 2020 and 2022

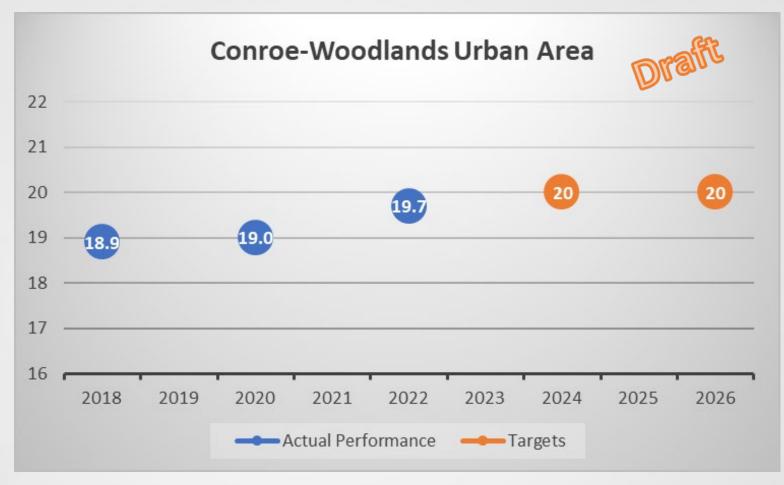
An increased value indicates improvement



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Walking
Bicycling
Working from home
Taxicab, motorcycle or
other means



New target setting requirement for 2024 & 2026

An increased value indicates improvement



Congestion Mitigation Air Quality (CMAQ)

On-Road Mobile Source Emission Reductions (kg/day)

NOx and VOC emission reductions from CMAQ projects that went to construction in FY 2018 to 2021.

Nitrogen Oxides (NOx) Volatile Organic Compounds (VOC)

| 1 st Performance Period (FY 2018 – 2021) | NOx | VOC |
|--|-----------|-----------|
| 4-Year Targets | 1,429.077 | 234.604 |
| 4-Year Totals | 1,383.040 | 98.863 |
| Difference | (46.037) | (135.741) |

4-Year Targets were not met



CMAQ Air Quality – Future Targets

On-Road Mobile Source Emission Reductions (kg/day)

| 2nd Performance Period (FY 2022 – 2025) | NOx | VOC |
|--|---------|---------|
| 2-Year Targets | 221.251 | 69.939 |
| 4-Year Targets | 601.465 | 172.864 |



Applied a project delivery success rate from the 1st performance period to future TIP projects.

Nitrogen Oxides (NOx)
Volatile Organic Compounds (VOC)



Project Types & Strategies



- Air Quality Projects
 - Clean Vehicles
 - Commute Solutions/Outreach
 - Regional Vanpool
 - Transit Pilot Projects
- Construction Projects
 - Bicycle/Pedestrian
 - Intelligent Transportation Systems (ITS)
- Seek opportunities for CMAQ-eligible Projects



Reliability, Congestion & Air Quality Performance Measures

July August **April - May** June September October Committees' Committees' Information Action Data gathering, Performance review TAC TAC review and analysis performance and Reporting follow Information • TPC • TPC H-GAC staff draft targets up Performance Session -6/29recommendations TTI **Update TIP** Reporting & MPO Appendix B in CMAQ Coordination Nov. STIP Rev. Performance **Public Comment Period** Plans DRAFI September 30 deadline

Next Steps



Performance Measures Webpage

https://www.h-gac.com/transportation-performance-measures

Performance Report

https://www.h-gac.com/getmedia/66c3af3f-83be-4738-b34f-5f4603afe305/Appendix-B-FAST-Act-Compliance-Performance-Measures-April-2022

Performance and future target recommendations in August

Karen Owen karen.owen@h-gac.com (832) 681-2614





RTP Update - Visioning

- Engagement Tools
 - Survey open until July 31st
 - Comment Map 287 pins dropped
 - Ideas 7 contributions
 - Story Map includes background, performance measures, and interactive mapping
- Next Steps
 - July to December 2022 Prioritization Phase
 - July to October Visioning Analysis to inform Prioritization
 - October to December Prioritization Outreach
 - January to April 2023 Draft Plan Review



RTP Update - Visioning Survey

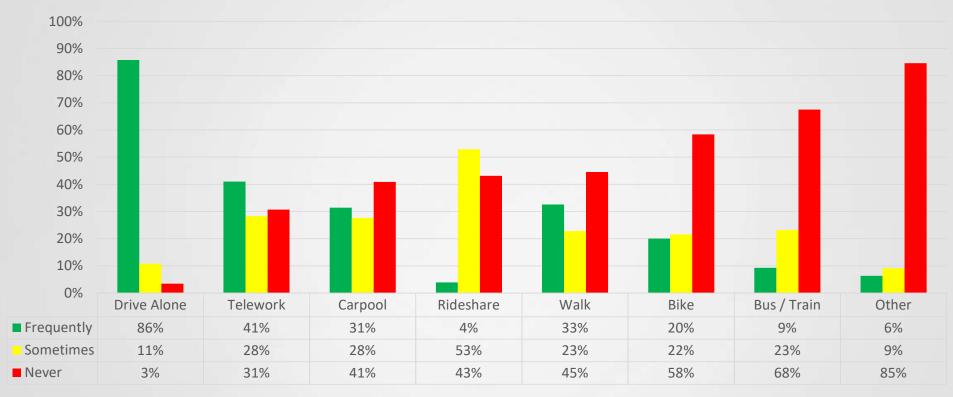
| County | Population Distribution | Response Distribution |
|------------|-------------------------|-----------------------|
| Harris | 66.8% | 69.5% |
| Fort Bend | 11.7% | 7.5% |
| Montgomery | 8.8% | 9.0% |
| Brazoria | 5.2% | 4.2% |
| Galveston | 4.9% | 7.5% |
| Liberty | 1.2% | 0.3% |
| Waller | 0.7% | 1.6% |
| Chambers | 0.7% | 0.5% |

Note: 1,660 survey responses to date



RTP Update - Visioning Survey

How frequently do you use each of the following modes of travel?





RTP Update - Visioning Survey



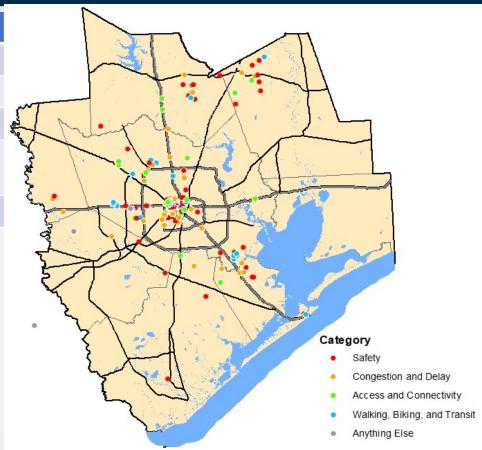
"Other" comments:

<u>Like</u> – Nothing, METROLift, reliable highways, tree canopies <u>Dislike</u> – aggressive drivers, mix of trucks and passenger vehicles, road construction



RTP Update - Visioning Comment Pins

| Category | Number | Percentage |
|------------------------|--------|------------|
| Safety | 97 | 33% |
| Congestion | 54 | 18% |
| Connectivity | 53 | 18% |
| Walk, Bike, Transit | 70 | 24% |
| Anything else | 13 | 4% |





RTP Update - Visioning Ideas

- 1. <u>Multimodal Corridors</u> major corridors should accommodate all modes
- 2. <u>Traffic Calming</u> use other methods (roundabouts, on-street parking, etc.)
- 3. Intersection Safety 30-day stop control (flashing red) after fatality
- 4. Road Diets more dedicated left turning lanes while reducing lanes from 4 to 2
- 5. <u>Sidewalks</u> use regional funding for sidewalk repairs; accessible during road work
- 6. Alternative Fuels use natural gas for public transit to downtown, Galleria, etc.
- 7. Commuter Rail grand plan for the Houston Area (similar to the Vision Network)





Parking

- Contribute to a Congestion Relief Program:
 - Parking Management Districts
 - Park and Ride Locations
- Commercial Motor Vehicle Parking Facilities Assessments
 - Ensure adequate parking and rest facilities for commercial motor vehicles
- Electric Vehicle Charging Infrastructure
 - Public buildings, schools, parks, or other publicly accessible parking facilities



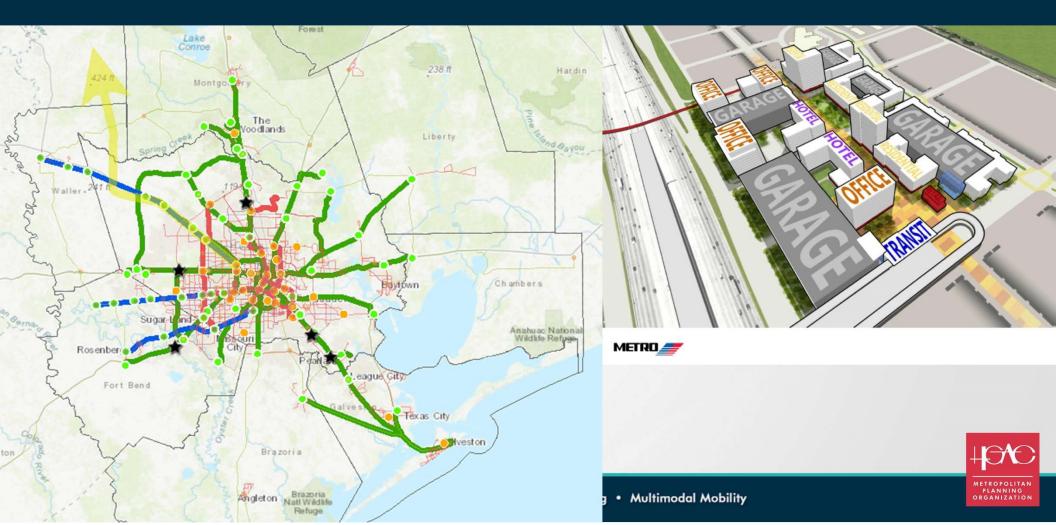
Parking Management

- Parking Benefit Districts
 - Use pricing to reduce highway congestion, economic, and environmental costs
 - Utilize revenue for transit, pedestrian, bicycle mode accommodations
- Curb Lane Management
 - Prioritize mix of users freight, transit, bike/pedestrian, valet, and parking

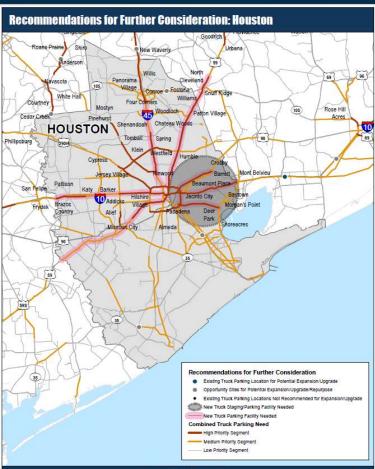




Park and Ride / TOD Potential



TxDOT Truck Parking Study



- TxDOT Truck Parking Study:
 - Houston-Galveston region has shortage of 500 or more spaces
 - SH 249 0.6 crashes per mile involving parked trucks (3rd highest in Texas)

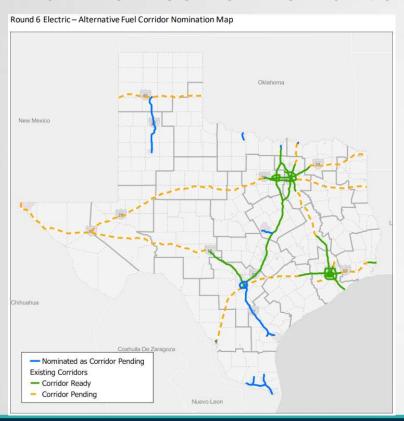


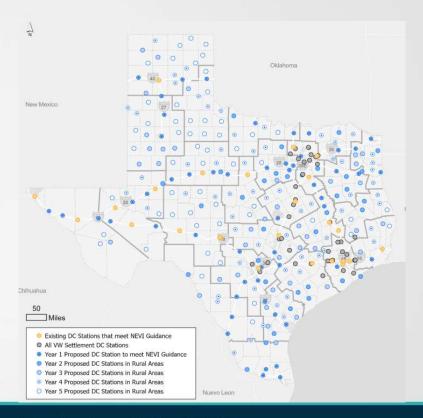




TxDOT Electric Vehicle Charging Plan

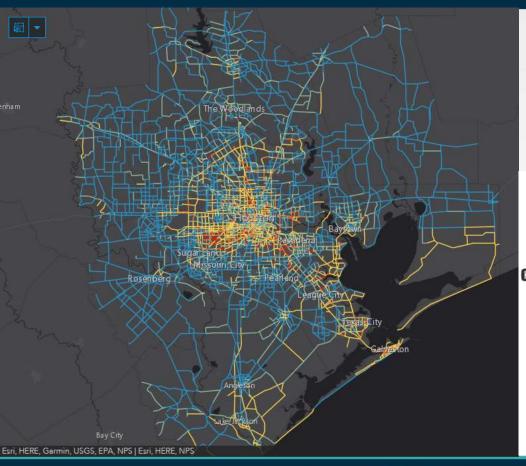
Prioritize Electric Alternative Fuel Corridors for NEVI Grant



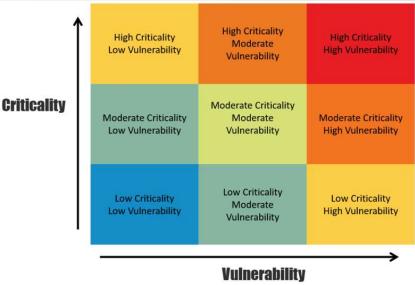




Resiliency



- Vulnerability Assessment Study (2018)
- Highly Critical/Highly Vulnerable:
 - 9.5 Miles of highway
 - 48 miles of major roadways





Resiliency

Federal Planning Process Requirements

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|------|---------|----------|--------|--------|-------|----------|---|
| Requ | irement | | | | | Response | |
| | | | | 1. 1.1 | _ | _ | c |

Improve the resiliency and reliability of the transportation system (FAST Act)

Reduce or mitigate stormwater impacts

Identify policies and design standards to

Coordinate resiliency planning with

Emergency Management agencies

Increase resiliency of the National

Highway System to extreme weather

of surface transportation

reduce stormwater impacts

Response
 Assessment of vulnerability of assets
 Act)
 Identified initiatives to improve resiliency

Identified initiatives to imp
 Included in Project Scoring

Identified susceptible roadways
Listing of mitigation projects

Regional Collaboration • Transportation Planning • Multimodal Mobility

(stateDOT)

Identified 25 adaptation strategies

Emergency Evacuation Zone Program (Zip Zones)

Address through Transportation Asset Management Plan

Resiliency

- Other Regional Response
 - Transportation Vulnerability Assessment Study
 - Foresight Panel on Environmental Effects
 - Pilot Eco-Corridors
 - Incorporate Adaptation Strategies into RTP
 - Need to develop a Resilience Improvement Plan
 - Credit for local match on projects included in MPO's Resiliency Plan (BIL)
- Project Scoring
 - Resiliency will be a significant factor in project scoring
 - Maintain Category Infrastructure Resiliency



Tribe

PA*

Territory

FLMA*

Local

| Bipartisan intrastructure Law – Highway |
|--|
| ote: This table does not include all BIL programs or eligible entities, and there are additional nuances not represented in this table |

| Bipa | rtisan | Intras | tructur | 'e Law | – Highway | |
|------|--------|--------|---------|--------|-----------|---|
| | | | | | | _ |

* "PA" means a special purpose district or public authority with a transportation function; FLMA means Federal Land Management Agency

State

MPO

√

Program Examples

Apportioned programs (formula)

PROTECT Grants (discretionary)

Congestion Relief Program

INFRA

National Electric Vehicle Formula Program

Charging and Fueling Infrastructure Program

Bridge Investment Program (discretionary)

Reconnecting Communities Pilot Program

National Infrastructure Project Assistance

Local and Regional Project Assistance

Rural Surface Transportation Grants

Safe Streets and Roads for All program

Bridge Program (formula)

Bipartisan Infrastructure Law - Highway

Changes to Metropolitan Planning Program

Tonic

| Topic | Changes |
|------------------------------|---|
| MPO Representation | Requirement to consider equitable and proportional representation of population of metropolitan planning area when MPO designates officials or representatives for the first time |
| Consistency of planning data | When more than one MPO is designated within an urbanized area, requires the |

| | for the first time |
|------------------------------|---|
| Consistency of planning data | When more than one MPO is designated within an urbanized area, requires the MPOs to ensure consistency of planning data to the maximum extent practicable |
| Public participation | Encouragement for MPOs to use social media and web-based tools to foster |

| | MPOs to ensure consistency of planning data to the maximum extent practicable |
|----------------------|---|
| Public participation | Encouragement for MPOs to use social media and web-based tools to foster public participation and to solicit public feedback during the transportation planning process |

| | planning process |
|--|---|
| Travel demand data and modeling | Requirements for <u>DOT to support State/MPO travel demand data and modeling</u> , including a study, data, and an evaluation tool (§11205) |
| Safe and accessible transportation options | Requirement that each MPO <u>use ≥2.5% of funds</u> apportioned for Metropolitan |

Planning (PL) on one or more activities to increase safe and accessible options for

multiple travel modes for people of all ages and abilities (§11206)

Bipartisan Infrastructure Law - Highway

Highway Resources

- BIL website: https://www.fhwa.dot.gov/bipartisan-infrastructure-law/
- BIL Highway Program Fact Sheets: https://www.fhwa.dot.gov/bipartisan-infrastructure-law/fact_sheets.cfm



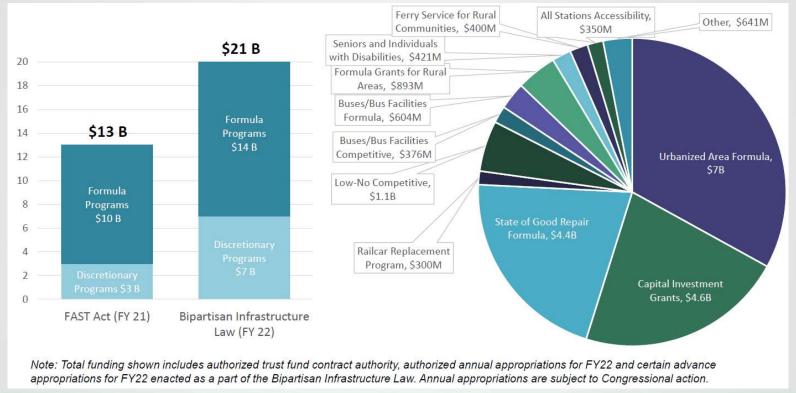
Bipartisan Infrastructure Law - Transit

- Significant Funding Increases
 - Up to \$108 billion for public transit over five years
 - \$69.9 B from Highway Trust Fund
 - \$21.25 B in Advance Appropriations
 - \$17 B in Authorized Appropriations
 - Continues existing structure for FTA programs focused on urban, rural, and targeted populations
- New Grant Programs
 - Rail Vehicle Replacement Program
 - All Station Accessibility Program
 - Electric / Low-Emitting Ferry Pilot Program
 - Ferry Service for Rural Communities
- Notices of Funding Opportunity for 10 competitive programs
 - Will be issued on a rolling basis; will combine to extent possible
 - NOFOs will contain program guidance for new programs
 - Buses & Bus Facilities and Low or No Emission Vehicle Program likely first to be issued
 - Schedule for some programs depends on timing of a full year appropriation



Bipartisan Infrastructure Law - Transit

Increased Funding for Public Transportation (FAST Act vs BIL)





Bipartisan Infrastructure Law - Transit

Transit Resources

- Bipartisan Infrastructure Law Website https://www.transit.dot.gov/BIL
- Program Fact Sheets https://www.transit.dot.gov/funding/grants/fta-program-fact-sheets-under-bipartisan-infrastructure-law

