MEETING OF THE RTP SUBCOMMITTEE
HOUSTON-GALVESTON AREA COUNCIL

MEMBERS PLEASE USE THE TEAMS INVITATION

TELECONFERENCE PARTICIPATION VIA MICROSOFT TEAMS
+1 346-262-0140 United States, Houston (Toll)
Conference ID: 641 945 004#

August 17, 2022
1:30PM

AGENDA

1. Call to Order
    Roll Call Attendance

2. Acceptance of Minutes
    From meeting of July 13, 2022

3. Reliability, Congestion, and Air Quality Performance Measures (Karen Owen)

4. 2045 RTP Update (Mike Burns)
    a. Review Visioning Survey responses
    b. Phase 2 Outreach

5. Announcements
    a. Next TPC Meeting – August 26, 2022 at 9:30AM (Hybrid)
    b. Next TAC Meeting – September 14, 2022 at 9:30AM (Hybrid)
    c. Next RTP Subcommittee Meeting – September 21, 2022 at 1:30PM (Teleconference)

6. Adjourn

RTP Subcommittee Roster

Nominated Position	Primary-Name	Organization	Alternate-Name	Organization
Local Government	Morad Kabiri	City of Friendswood	Jildardo Arias	City of Friendswood
Transit	Perri D'Armond	Fort Bend County	Stacy Slawinski	Fort Bend County
Active Transportation	Joe Cutrufo	Bike Houston	Nikki Knight	SE Management Dist.
Airport	Bill Zrioka	Houston Airport System	Marcel Allen	Houston Airport System
Business Interest	Elizabeth Whitton	Energy Corridor	Elijah Williams	Energy Corridor
Citizen Interest	Andrea French	Scenic Houston	Jonathan Brooks	LINK Houston
Environmental	Harrison Humphreys	Air Alliance Houston	Vacant	
Local Government	Todd Stephens	The Woodlands Township	Ruthanne Haut	The Woodlands Township
Local Government	Karen McKinnon	Brazoria County	Matt Hanks	Brazoria County
Local Government	Hon. John Bowen	City of League City	Christopher Sims	City of League City
Local Government	Robert Upton, P.E.	City of Pearland	Rajendra Shrestha	City of Pearland
Local Government	David Fields	City of Houston-P&D	Peter Eccles	City of Houston - Planning
Local Government	Loyd Smith, P.E.	Harris County	Brannan Hicks	Harris County
Local Government	Monique Johnson	City of Sugar Land	Rick Ramirez	City of Sugar Land
Local Government	Yancy Scott	Waller County	Hon. Jay Knight	Liberty County
Planning	Katherine Parker	GCRD	Carol Lewis, PhD	TSU
Port	Bruce Mann	Port of Houston	Rohit Saxena	Port of Houston
Port	Mike Wilson	Port of Freeport	Rodger Rees	Port of Galveston
State	Charles Airiohuodion	TxDOT-HOU	Jeffrey English	TxDOT-HOU
State	Lisa Collins	TxDOT-BMT	Scott Ayres	TxDOT-BMT
Toll Road	Vacant		Vacant	
Transit	Ken Fickes	Harris County	Vernon Chambers	Harris County
Transit	Taylor Marcantel	METRO	Jose Pulido	METRO

MEETING OF THE RTP SUBCOMMITTEE
HOUSTON-GALVESTON AREA COUNCIL
TELECONFERENCE PARTICIPATION VIA MICROSOFT TEAMS
July 13, 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	No	Marcel Allen	No
Elizabeth Whitton	No	Elijah Williams	No
Andrea French	No	Jonathan Brooks	Yes
Harrison Humphreys	Yes	VACANT	No
Todd Stephens	No	Ruthanne Haut	No
Karen McKinnon	No	Matt Hanks	No
Hon. John Bowen	No	Christopher Sims	Yes
Robert Upton, P.E.	Yes	Rajendra Shrestha	No
David Fields	Yes	Peter Eccles	No
Loyd Smith, P.E.	Yes	Brannan Hicks	No
Monique Johnson	Yes	Rick Ramirez	Yes
Yancy Scott	Yes	Hon. Jay Knight	No
Katherine Parker	No	Carol Lewis, PhD	No
Bruce Mann	Yes	Rohit Saxena	No
Mike Wilson	Yes	Rodger Rees	No
Charles Airiohuodion	Yes	Jeffrey English	Yes
Lisa Collins	Yes	Scott Ayres	No
VACANT	No	VACANT	No
Ken Fickes	Yes	Vernon Chambers	Yes
Taylor Marcantel	Yes	Jose Pulido	Yes

Others Present: Amy Skicki, Caroline Bailey, Adam Beckom, Daniel Brassil, Catherine McCreight, Vernon Chambers, Andrew DeCandis, Eliza Paul, Carrie Evans, David Fink, Shixin Gao, James Garland, Veronica Green, Harrison Humphreys (Guest), Fizza Hassan, Anita Hollmann, Allie Isbell, Jeffrey English, Ayo Jibowu, Catherine Kato, Stephen Keen, Megan Kennison, Justin Kuzila, Vishu Lingala, Lisa Collins, Mike Wilson, Monique Johnson, Carlene Mullins, Frank Pagliei, Craig Raborn, Alan Rodenstein, Loyd Smith, Tim (Guest), Tim (Guest), Veronica Waller, Christopher Whaley

Staff Participating:
Mike Burns, Karen Owen

1. Call to Order
   o Chair Morad Kabiri called the meeting to order at 1:33PM and conducted roll call to ensure a quorum.
   o Morad Kabiri confirmed that a quorum was present.

2. Acceptance of Minutes
   o Ken Fickes made a motion to approve, Jonathan Brooks seconded.
   o The motion was approved unanimously.

3. Reliability, Congestion, and Air Quality Performance Measures (Karen Owen)
    o Karen Owen gave a presentation on reliability, congestion and air quality federal performance measures. She mentioned the differences between reliable and unreliable trips (Level of Travel Time Reliability), differences in reliability between interstate and non-interstate NHS, what affects reliability levels (COVID, population increases, etc), and recommendations for LOTTR and TTR (Truck Travel Reliability).
    o Karen mentions staff recommends new performance measures in peak hour excessive delay, as well as percentage of non-single occupant vehicles for 2024 and 2026.
    o Karen says we did not meet performance targets for CMAQ (Congestion Mitigation Air Quality) and going forward we are modifying future targets.
    o Karen provided a timeline of pertinent dates for federal performance measures before ending the presentation
    o Comments/Questions
        ▪ Bruce Mann asks for clarification on CMAQ slides, which Karen provides.
        ▪ Harrison Humphreys asks how to isolate emission productions by project
            • Karen says TIP projects that are obligated have emission totals and are reported, which leads to the totals.
        ▪ Loyd Smith asks for clarification on federal performance measures and if this data is useful for project selection, etc.
            • Karen mentions federal measures are solely about the NHS
        ▪ Craig Raborn states tools are in the works on measuring the effects that projects have on achieving federal performance measures.
        ▪ David Fields asks if H-GAC receives any guidance, Karen says no.
            • He also says that if occupancy goes up, delay goes down per person and believes that is compelling and should be in the RTP
                o Mike Burns mentions that this may be better served in the CMP, but open to this.
        ▪ Charles Airohuodion asks about non-interstate NHS LOTTR federal performance measures and constructions affect
            • Karen says that construction makes the system less reliable.
        ▪ Ken Fickes had a comment on LOTTR
    o There was no further discussion

4. 2045 RTP Updating – Visioning Phase Update (Mike Burns)
    o Mike Burns 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. Mike also shared current statistics on the engagement tools and gave next steps in the RTP process.
        ▪ Loyd Smith mentions that teleworking isn't a representative sample.
        ▪ Loyd asks about 30 day stop control after fatality, Mike mentions this idea is to bring up intersection safety issue (not from H-GAC staff).
        ▪ Yancy Scott talks about right turn lanes and is a fan of roundabouts
        ▪ Jose Pulido says CIG is used for METRO buses.
        ▪ Perri D'Armond interested in freight shuttle to decrease emissions
            • Would move freight quickly and efficiently and truck drivers would not lose their jobs.
            • Would also relieve workforce shortages of drivers with CDL licensing.

- o There was no further discussion.

5. 2045 RTP Update – Other Elements for Discussion (Mike Burns)
   a. Parking
      - o Mike Burns presented topics related to regional parking assets, including solutions to contribute to a congestion relief program, commercial motor vehicle parking facilities assessment, and electric vehicle charging infrastructure. Parking benefits districts, curb lane management, park and ride potential locations via METRONext were also mentioned.
      - o David Fields expanded on parking
      - o Taylor Marcantel from METRO – recommended park and ride improvements
      - o Perri D'Armond spoke about Park and Ride in FBC and a Park and Ride at UH-Sugar Land
        - ▪ Looking at all options to bring people in and take them out of Fort Bend County.
      - o Justin Kuzila spoke about TOD working group
        - ▪ Ken Fickes added to the discussion.
      - o Mike Burns mentions the TxDOT Truck Parking Study and TxDOT Electric Vehicle Charging Plan
        - ▪ Charles expounds further on these two TxDOT initiatives

   b. Resiliency
      - o Mike Burns presented an overview of required regional activities related to resilience, including federal planning process requirements and the need to develop a Resilience Improvement Plan.

   c. Bipartisan Infrastructure Law
      - o Mike Burns presented some elements of the BIL related to MPO activities for discussing, such as what is MPO specific programs for funding and MPO changes.
      - o There was no further discussion

6. Announcements
   a. Next TAC Meeting – July 20, 2022 at 9:30AM (Teleconference)
   b. Next TPC Meeting – July 29, 2022 at 9:30AM (Teleconference)
   c. Next RTP Subcommittee Meeting – August 10, 2022 at 1:30PM (Teleconference)

   - o Morad Kabiri mentioned upcoming meetings over the next month.

7. Adjourn
   - o Morad Kabiri asked for any other comments. Hearing none, the Chair declared the meeting adjourned at 2:56PM.

Minutes submitted by: Stephen Keen

Reliability, Congestion and Air Quality Performance Measures

Karen Owen
RTP Subcommittee
August 17, 2022

Regional Collaboration • Transportation Planning • Multimodal Mobility

Performance Measures

Reliability

- Personal & Truck Travel

Congestion

- Peak Hour Excessive Delay

- Non-Single Occupancy Vehicles

Air Quality

- Tailpipe emissions reduced from CMAQ projects

Legend
— Non-Interstate NHS
— Interstate NHS

HGAC
METROPOLITAN
PLANNING
ORGANIZATION
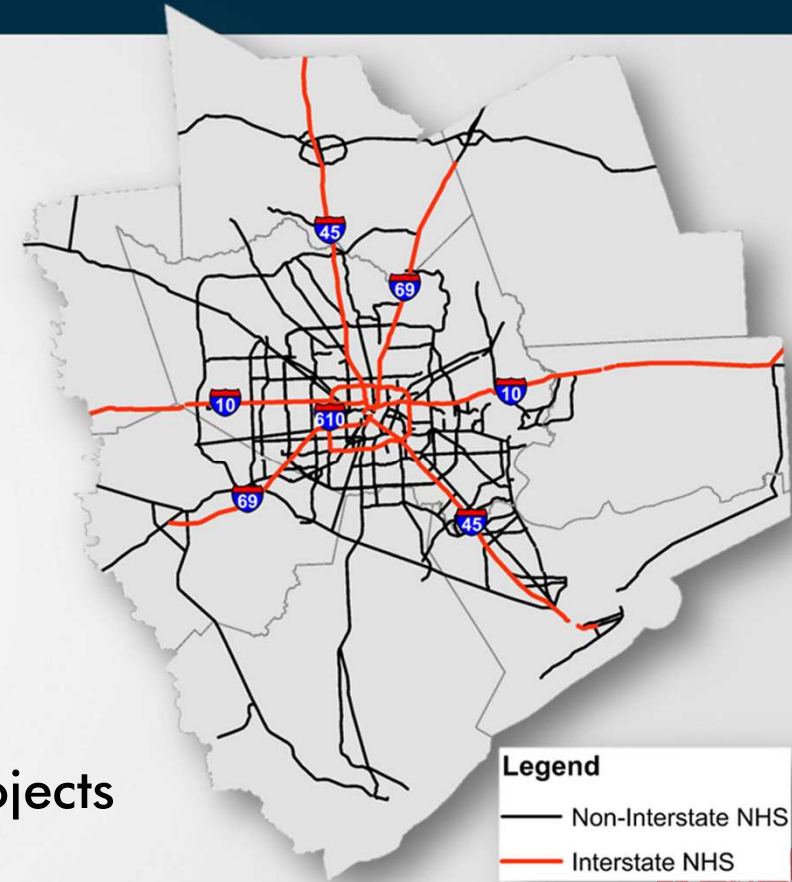
Reliability, Congestion & Air Quality

- 2022 Performance Reporting is based on 2021 data & traffic conditions

- 2024 and 2026 Target Setting
  - Can adjust 2026 targets in two years

- No penalties if targets aren't met

METROPOLITAN PLANNING ORGANIZATION

Target Setting Considerations

- Pandemic impacted travel patterns

- Working from Home increased

- Population growth

- 2022 Actual Performance based on 2021 data considered an outlier.

HGAC
METROPOLITAN
PLANNING
ORGANIZATION

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

LOTTR - Interstate

Draft

- 2018: 65 (Actual Performance)
- 2020: 71 (Actual Performance), 63 (Targets)
- 2022: 79 (Actual Performance), 69 (Targets)
- 2024: 70 (Targets)
- 2026: 71 (Targets)

Legend: Actual Performance, Targets

Targets met in 2020 and 2022

Desired Trend

HCAC METROPOLITAN PLANNING ORGANIZATION
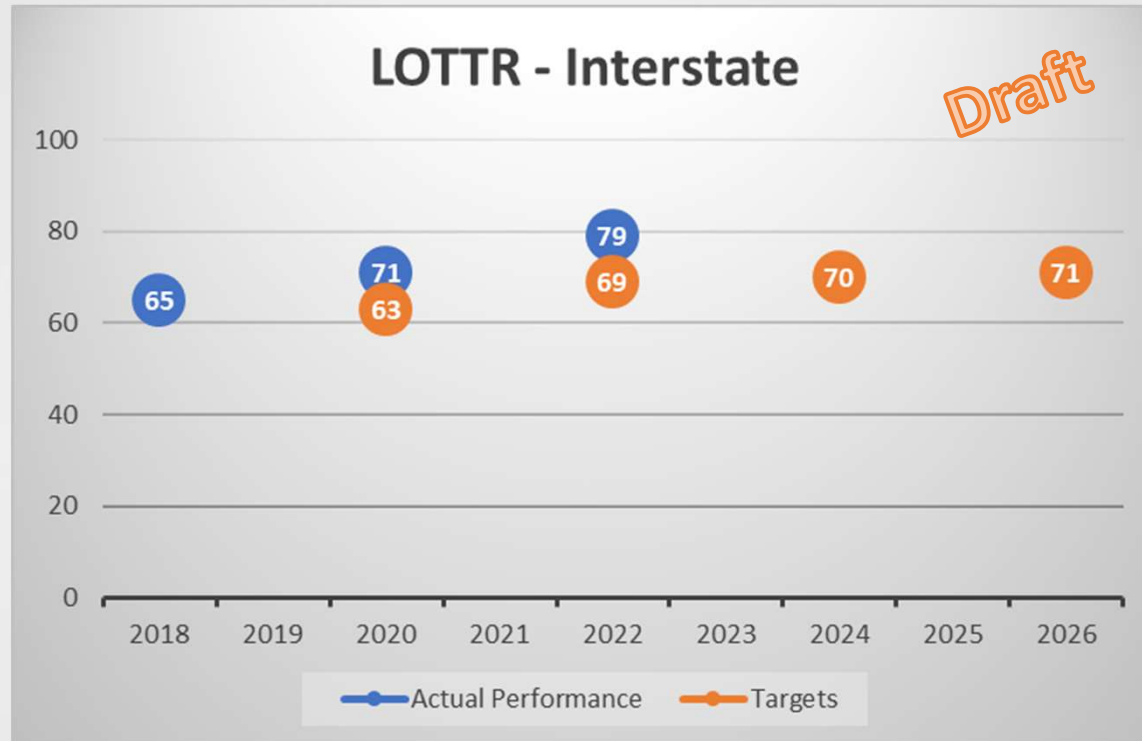
Percentage of Reliable Personal Miles (Annual)

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**

LOTTR - Non-Interstate NHS

Draft

2018	75
2020	82 / 73
2022	89 / 80
2024	75
2026	77

Actual Performance ● Targets

Targets met in 2020 and 2022

Desired Trend

Regional Collaboration • Transportation Planning • Multimodal Mobility

HCAC METROPOLITAN PLANNING ORGANIZATION
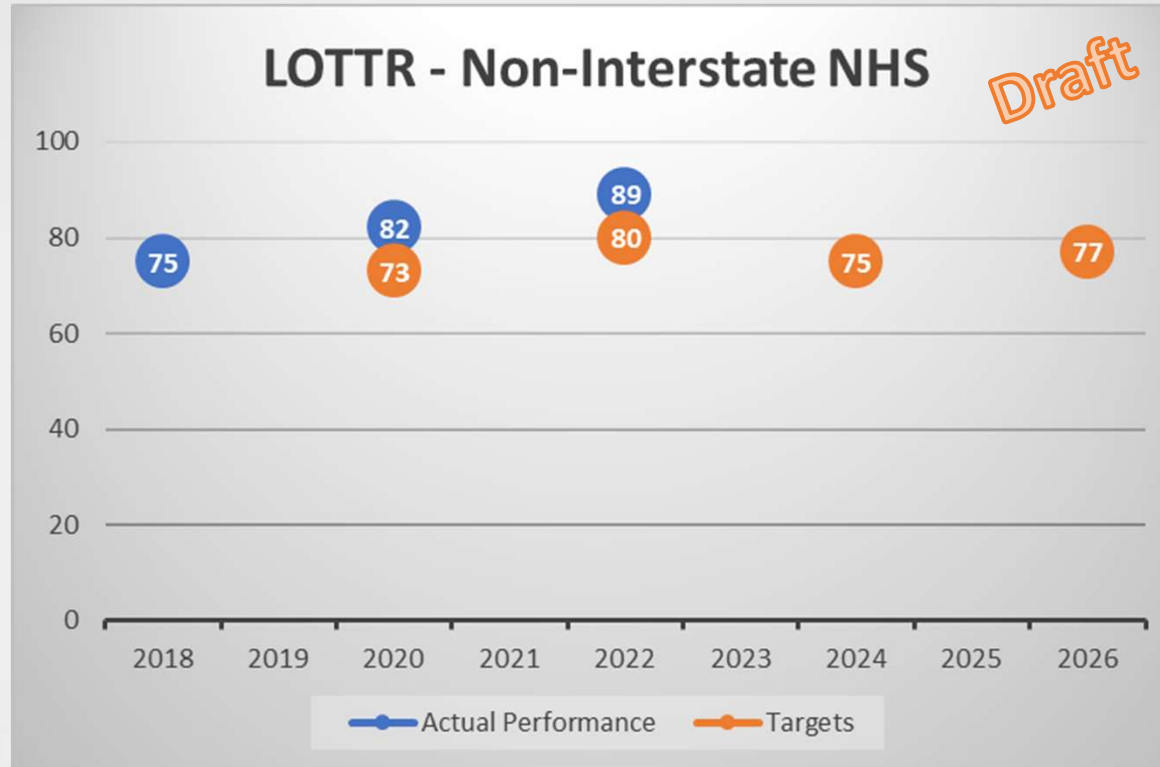
Truck Travel Time Reliability Index

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.

TTTR Index - Interstates

Draft

2.6			
2.4			
2.2	2.1 2.1	2.2	2.2 2.2
2.0	2.0		
1.8		1.9	
1.6			
1.4			
1.2			
1.0			

2018 2019 2020 2021 2022 2023 2024 2025 2026

Actual Performance   Targets

Targets met in 2020 and 2022

Desired Trend

Regional Collaboration • Transportation Planning • Multimodal Mobility

HCAC
METROPOLITAN
PLANNING
ORGANIZATION
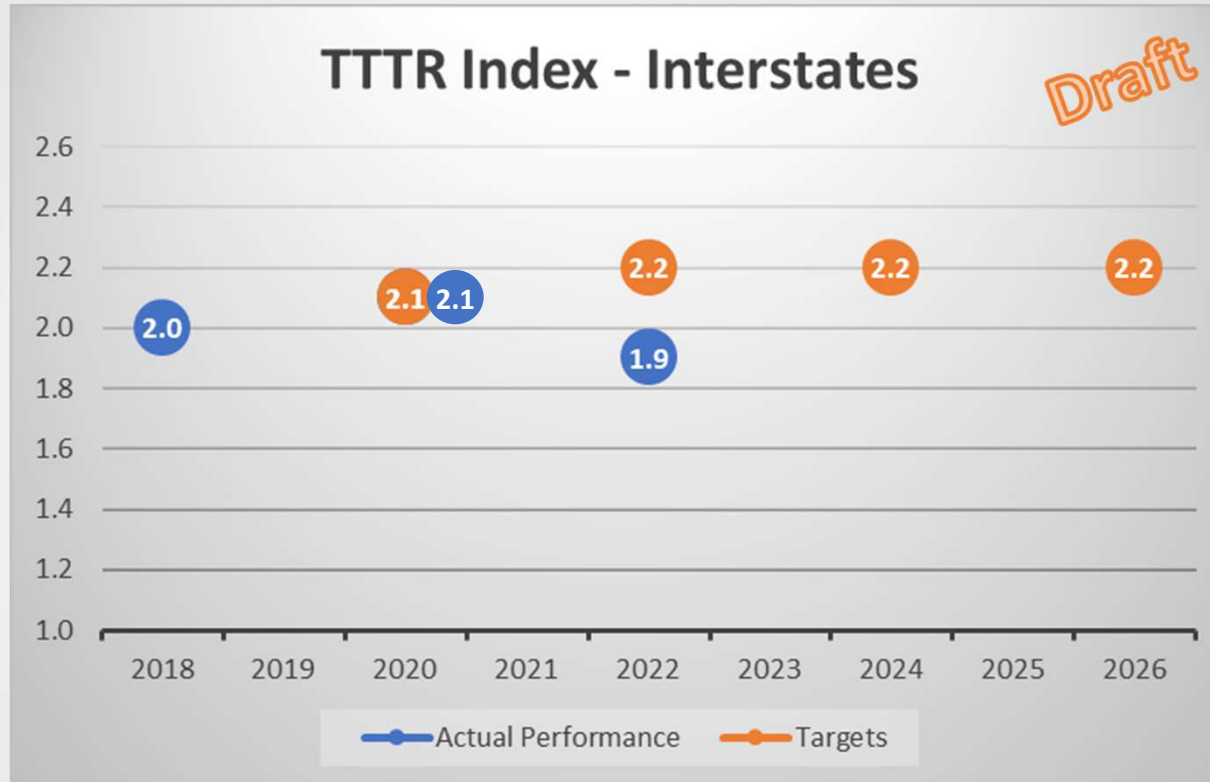
Project Types & Strategies

- Transportation Improvement Program (TIP)
- Regional Transportation Plan (RTP)
- Tow and Go Program
- TranStar
- Commute Solutions
- TxDOT's Connect Smart app

HGAC
METROPOLITAN
PLANNING
ORGANIZATION

Peak Hour Excessive Delay

Houston Urban Area

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.

Draft

1st performance period (4-8 pm) | **2nd performance period (3-7 pm)**

- 2018: 15.5 (Actual)
- 2020: 14 (Target), 13.4 (Actual)
- 2022: 14 (Target), 12.2 (Actual)
- 2024: 16 (Target)
- 2026: 16 (Target)

— Actual (4-8 pm) — Targets

Targets met in 2020 and 2022
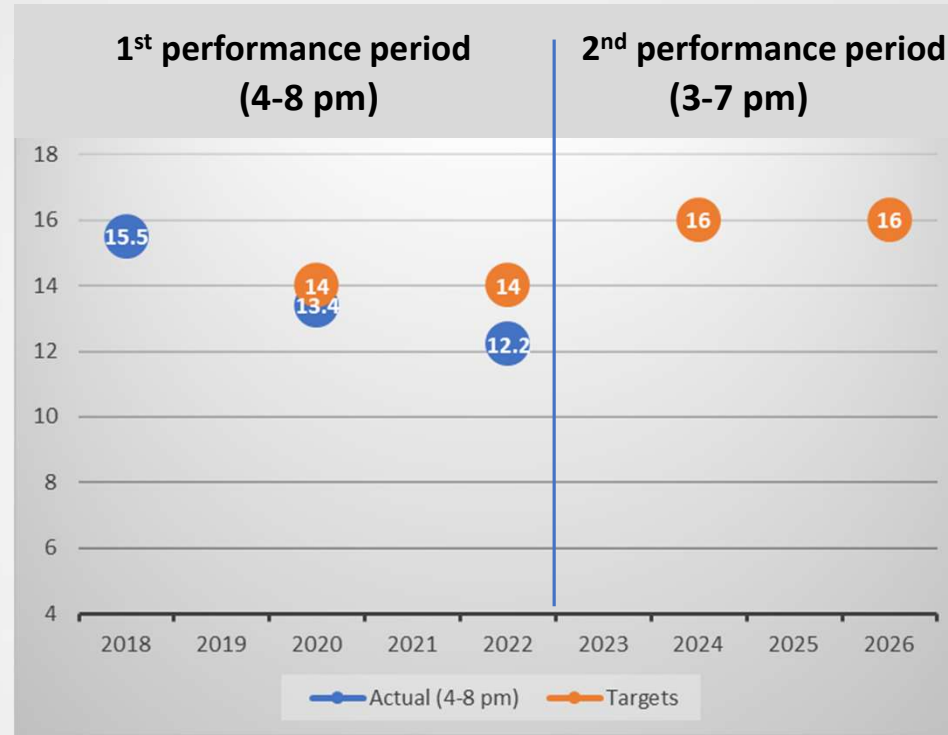
Desired Trend

HGAC METROPOLITAN PLANNING ORGANIZATION

Peak Hour Excessive Delay

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

Mon. – Fri. Peak Periods
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.

Conroe-Woodlands Urban Area (3-7 pm)

Draft

Actual Performance (3-7 pm) data points:
- 2018: 5.1
- 2020: 6.4
- 2022: 8.1

Targets:
- 2024: 8.0
- 2026: 8.0

New target setting requirement for 2024 & 2026

Desired Trend

HGAC
METROPOLITAN
PLANNING
ORGANIZATION

Percent of Non-Single Occupant Vehicle Trips

Percent of Work Trips made in Non-Single Occupant Vehicles:

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

American Community Survey 5-year averages

Houston Urban Area

Draft

Year	Actual Performance	Targets
2018	20.1	
2020	21.1	21.1
2022	21.1	20.0
2024		21.1
2026		22.0

— Actual Performance   — Targets

Targets met in 2020 and 2022

Desired Trend
↑

HGAC METROPOLITAN PLANNING ORGANIZATION

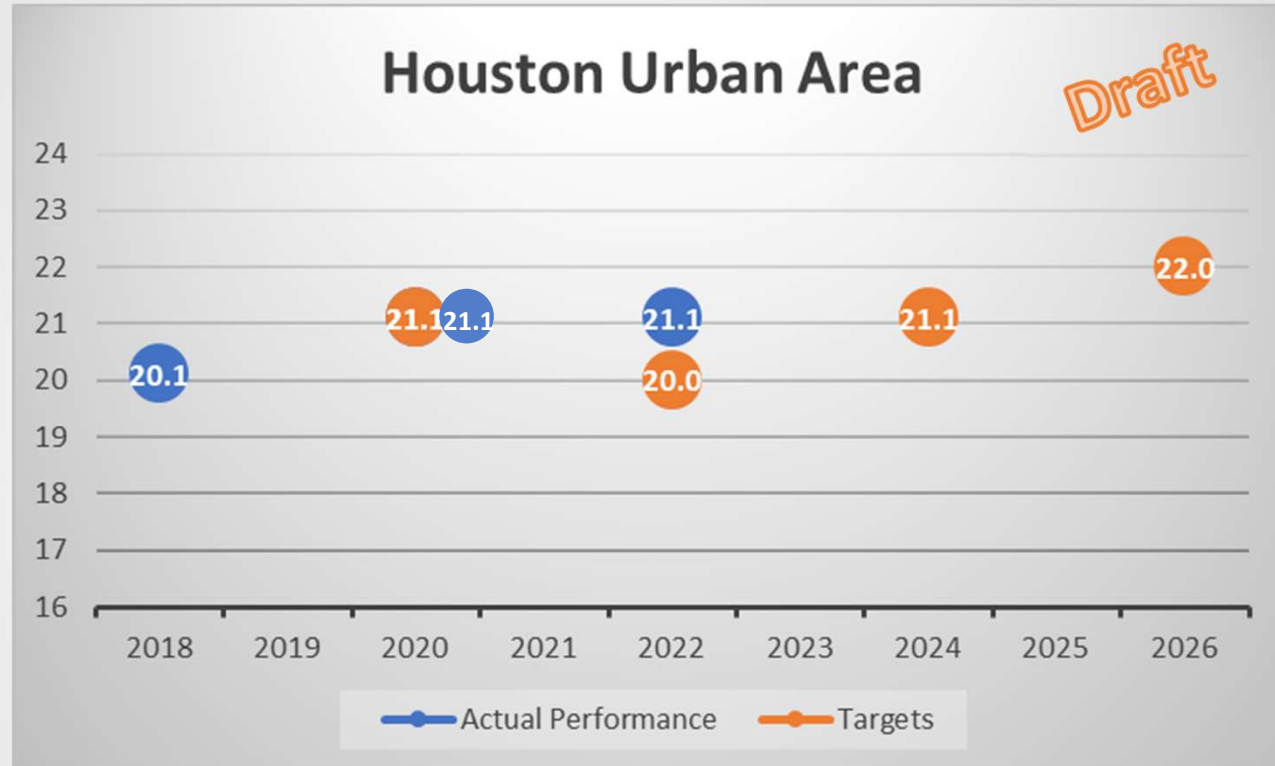Regional Collaboration • Transportation Planning • Multimodal Mobility

Percent of Non-Single Occupant Vehicle Trips

Percent of Work Trips made in Non-Single Occupant Vehicles:

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

American Community Survey 5-year averages

Conroe-Woodlands Urban Area

Draft

| | 18.9 | 19.0 | 19.7 | 20 | 20 |

(chart values by year)
- 2018: 18.9 (Actual Performance)
- 2020: 19.0 (Actual Performance)
- 2022: 19.7 (Actual Performance)
- 2024: 20 (Targets)
- 2026: 20 (Targets)

Legend: ● Actual Performance ● Targets

New target setting requirement for 2024 & 2026

Desired Trend
↑

HGAC
METROPOLITAN
PLANNING
ORGANIZATION

Regional Collaboration • Transportation Planning • Multimodal Mobility

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)

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

4-Year Targets were not met

Desired Trend

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

Draft

Applied a project delivery success rate from TIP projects the 1st performance period to future TIP projects in the 2nd performance period.

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**

HGAC
METROPOLITAN
PLANNING
ORGANIZATION

Reliability, Congestion & Air Quality Performance Measures

April - May	June	July	August	September	October

April - May

Data gathering, review and analysis
- H-GAC staff
- TTI
- MPO Coordination

June

Committees' review Information Session – 6/29

July

Committees' performance and draft targets recommendations

Public Comment Period

August

Information
- TAC
- TPC

September

Action
- TAC
- TPC
- Performance Reporting & CMAQ Performance Plans

September 30 deadline

October
- Performance Reporting follow up
- Update TIP Appendix B in Nov. STIP Rev.

DRAFT

TIP, RTP, Transportation Air Quality, and Transportation Systems Management & Operations Subcommittees

Performance Measures

Public Comment Period July 15 to August 14

Performance Measures Comments
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

Recommendation for the reporting and targets to be forwarded to the Transportation Advisory Committee (TAC) and the Transportation Policy Council (TPC)

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

H-GAC
METROPOLITAN
PLANNING
ORGANIZATION

2045 RTP Update – Visioning Survey Responses

August 17, 2022
RTP Subcommittee

Regional Collaboration • Transportation Planning • Multimodal Mobility

RTP Update – Visioning

- **Engagement Tools**
  - <u>Survey closed July 31st – 2,088 responses</u>
  - Comment Map – 293 pins dropped
  - Ideas – 8 contributions
  - Story Map – includes background, performance measures, and interactive mapping

- **Next Steps**
  - August to December 2022 – Prioritization Phase
    - October to December – Conduct Outreach
  - January to April 2023 – Draft Plan Review
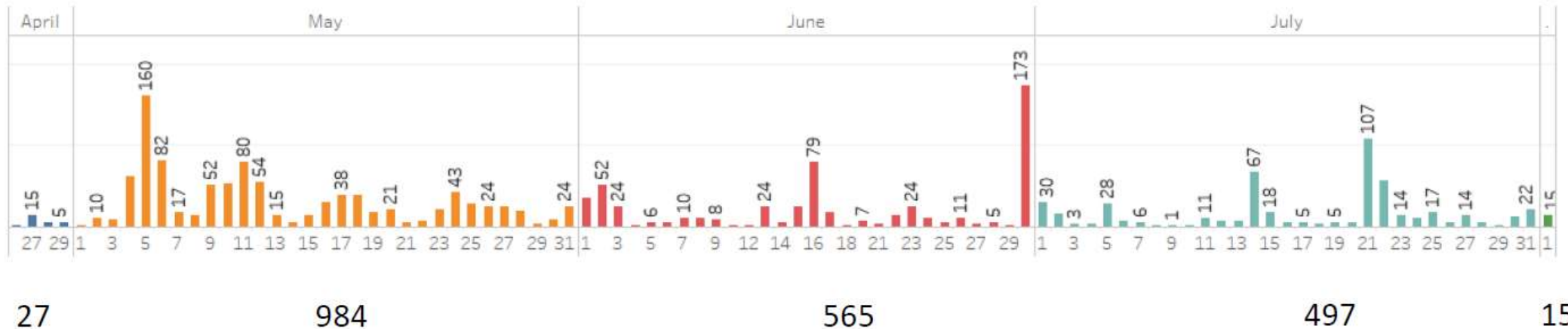
HCAC
METROPOLITAN
PLANNING
ORGANIZATION

Visioning Survey Response Dashboard

- Final dashboard will display mapping and cross tabulation
- A link will be provided prior to the September meeting.

- Total 2,088 Reponses
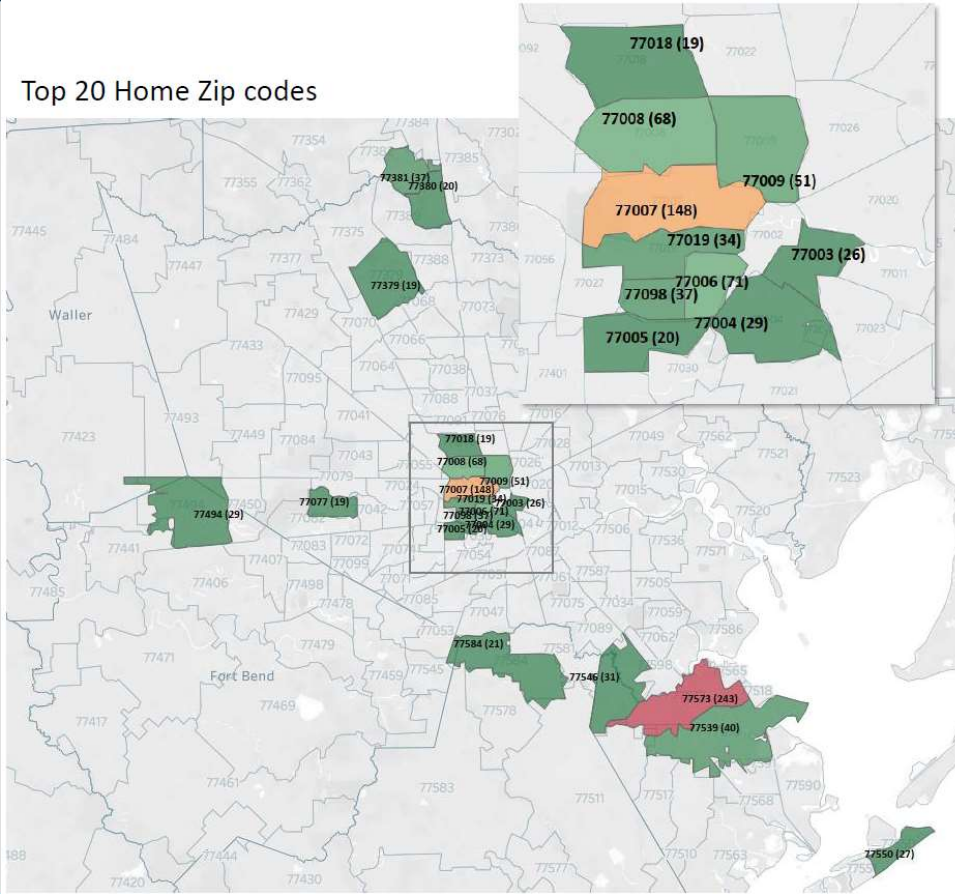- Excluding 7 outside Texas and outside 77XXX zip codes

Responses by Date

Survey Responses – Top 20 Zip Codes

Top 20 Home Zip codes

Top 20 Home Zipcode	
Q1 Ho.. ⇟	
Grand Total	2,088 (100.00%)
77573	243 (11.64%)
77007	148 (7.09%)
77006	71 (3.40%)
77008	68 (3.26%)
77009	51 (2.44%)
77539	40 (1.92%)
77098	37 (1.77%)
77381	37 (1.77%)
77019	34 (1.63%)
77546	31 (1.48%)
77004	29 (1.39%)
77494	29 (1.39%)
77550	27 (1.29%)
77003	26 (1.25%)
77584	21 (1.01%)
77005	20 (0.96%)
77380	20 (0.96%)
77018	19 (0.91%)
77077	19 (0.91%)
77379	19 (0.91%)

Survey Responses by County

Home Counties

Home County	RTP Survey	%	H-GAC Region
Total	2,088		
Brazoria	80	3.8%	5.3%
Chambers	16	0.8%	0.6%
Fort Bend	134	6.4%	11.4%
Galveston	388	18.6%	4.9%
Harris	1,263	60.5%	67.3%
Liberty	9	0.4%	1.2%
Montgomery	158	7.6%	8.5%
Waller	28	1.3%	0.8%
Outside 8 Counties	17	0.8%	

Regional Collaboration • Transportation Planning • Multimodal Mobility

HGAC
METROPOLITAN
PLANNING
ORGANIZATION

Survey Responders vs Regional Demographics

Gender	RTP Survey	%	H-GAC Region
Total	2,088		
Male	984	47.1%	49.6%
Female	937	44.9%	50.4%
Prefer not to answer	167	8.0%	

Race	RTP Survey	%	H-GAC Region
Total	2,088		
White	1,1253	60.0%	35.4%
Black or African American	108	5.2%	16.8%
Asian or Pacific Islander	105	5.0%	7.8%
Hispanic	331	15.9%	37.5%
Other	125	6.0%	2.5%
Prefer not to answer	166	8.0%	

Income	RTP Survey	%	H-GAC Region
	2,088		
Less than $30,000	72	3.4%	24.9%
$30,000 to $59,999	229	11.0%	28.5%
$60,000 to $84,999	301	14.4%	12.3%
$85,000 to $99,999	179	8.6%	
$100,000 to $149,999	480	23.0%	16.2%
$150,000 or more	736	35.2%	18.2%
Prefer not to answer	91	4.4%	

Age	RTP Survey	%	H-GAC Region
Total	2,088		
Under 25 years (20-24)	89	4.3%	9.9%
25 to 44 years	955	45.7%	41.3%
45 to 64 years	711	34.1%	33.8%
65 to 84 years	286	13.7%	14.1%
85 years and over	5	0.2%	1.6%
Prefer not to answer	42	2.0%	

Home County	RTP Survey	%	H-GAC Region
Total	2,088		
Brazoria	80	3.8%	5.3%
Chambers	16	0.8%	0.6%
Fort Bend	134	6.4%	11.4%
Galveston	388	18.6%	4.9%
Harris	1,263	60.5%	67.3%
Liberty	9	0.4%	1.2%
Montgomery	158	7.6%	8.5%
Waller	28	1.3%	0.8%
Outside 8 Counties	17	0.8%	

Vehicle Ownership	RTP Survey	%	H-GAC Region
	2,088		
No vehicle	34	1.6%	5.2%
1 vehicle	529	25.3%	31.8%
2 vehicles	1,047	50.1%	40.9%
3 vehicles	295	14.1%	15.3%
4 vehicles or more	122	5.8%	6.8%
Prefer not to answer	61	2.9%	

HGAC
METROPOLITAN
PLANNING
ORGANIZATION

Q3. *How often do you use the following modes of transportation?*
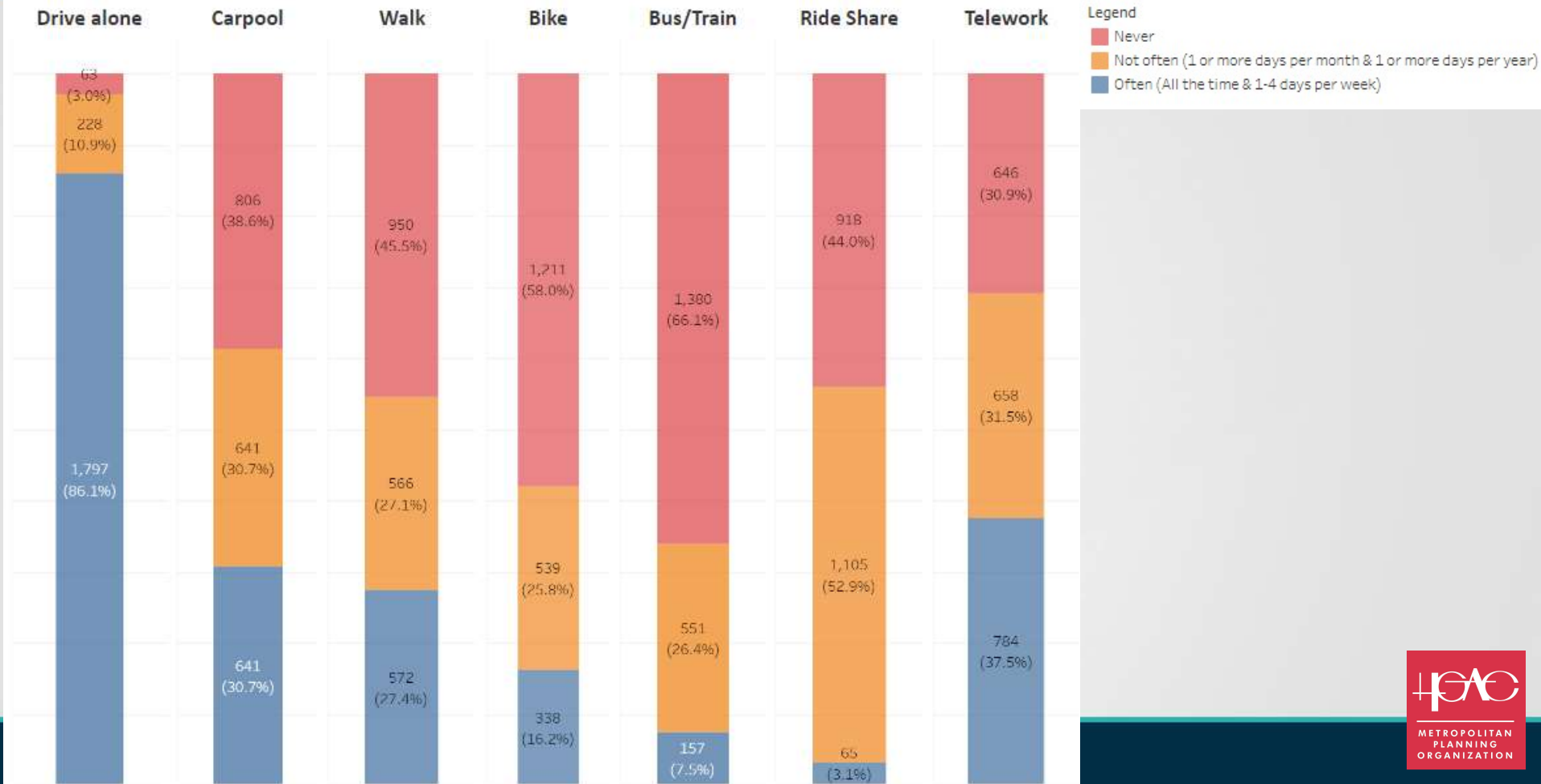
Q4. What do you LIKE about traveling around the region?

Category	Percentage
Travel is safe	7.7%
Congestion (traffic moves well while in a car or bus)	3.1%
Walking and Biking (good access to facilities)	7.6%
Public Transportation (accessible and convenient)	3.6%
Pavement Conditions (such as very few potholes)	7.6%
Roadway Resiliency (good drainage after storms)	5.3%
Proximity to Work (short commutes)	15.5%
Proximity to Shopping and Activities (things are close by)	25.1%
Cost of Travel and Parking is Low	11.1%
Travel Time (consistently short trips in a car or bus)	8.3%
Other	5.0%

Note: Up to three could have been chosen

HCAC
METROPOLITAN
PLANNING
ORGANIZATION

Q5. What CONCERNS you about traveling around the region?

Concern	Percentage
Travel is not safe	9.4%
Congestion (stuck in traffic while in a car or bus)	21.7%
Walking and Biking (limited access to facilities)	10.4%
Public Transportation (limited access or convenience)	15.0%
Pavement Conditions (such as potholes)	14.1%
Roadway Resiliency (prolonged flooding after storm events)	6.5%
Proximity to Work (long distance commute)	3.7%
Proximity to Shopping and Activities (things are not close by)	2.9%
Cost of Travel and Parking	4.2%
Travel Time (consistently long trips in a car or bus)	10.0%
Other	2.0%

Note: Up to three could have been chosen

HGAC

METROPOLITAN
PLANNING
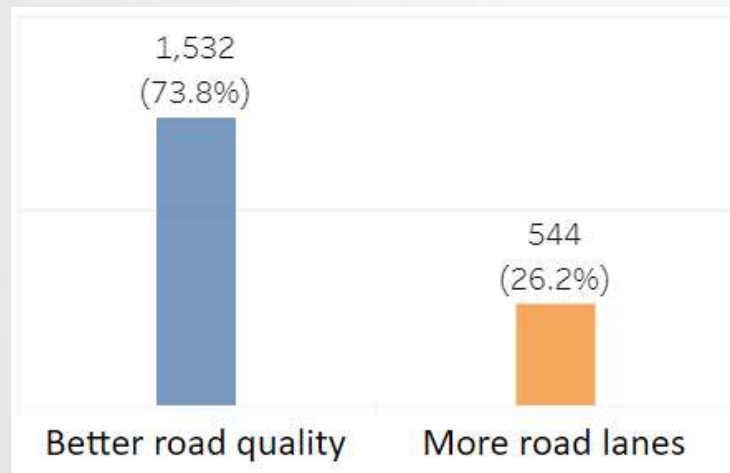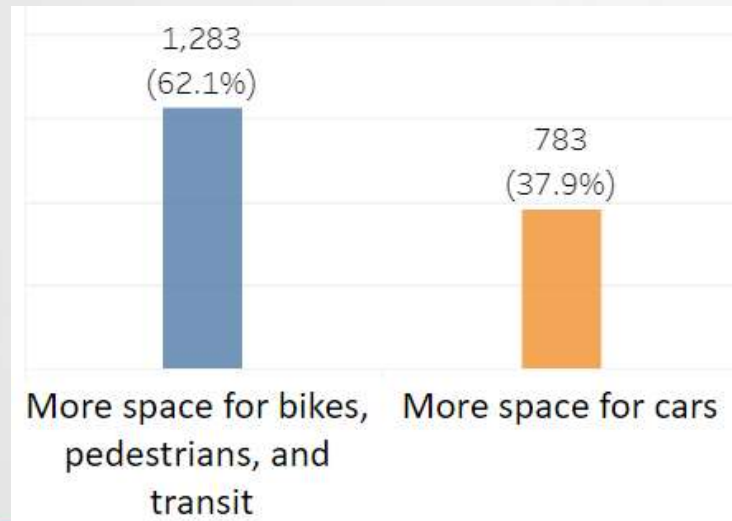ORGANIZATION
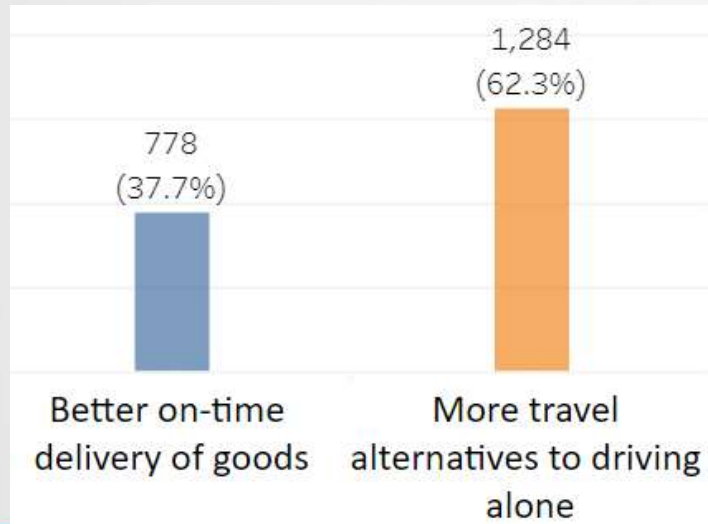
Q6. What is important to you (Safety)?
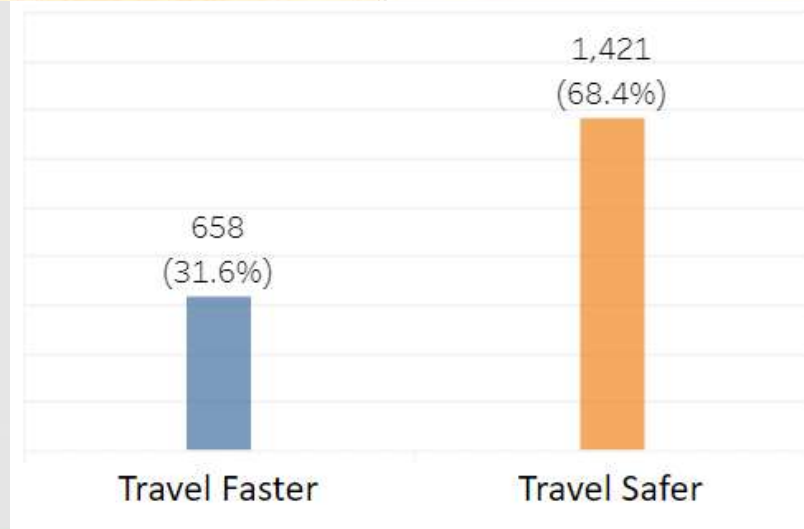
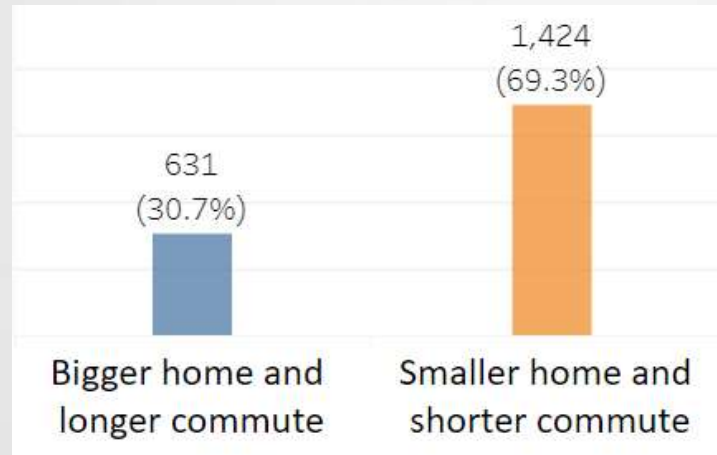# Q7. Given limited resources, which option do you prefer (Road Condition)?

Q8. Which do you prefer (Mobility)?

Q9. Which option do you prefer (Economy)?

BETTER ON-TIME DELIVERY | MEJOR ENTREGA A TIEMPO | GIAO HÀNG ĐÚNG GIỜ TỐT HƠN | 更好的准时交货

MORE TRAVEL ALTERNATIVES TO DRIVING ALONE | MÁS ALTERNATIVAS DE VIAJE A CONDUCIR SOLO | THÊM THUẬT TOÁN DU LỊCH KHÁC ĐỂ LÁI XE MỌI NGƯỜI | 独自驾驶的更多旅行选择

Chart:
- Better on-time delivery of goods: 778 (37.7%)
- More travel alternatives to driving alone: 1,284 (62.3%)

HGAC METROPOLITAN PLANNING ORGANIZATION

Q10. Which option do you prefer (Environment)?

Q11. What concerns impact your housing choice?

Note: Up to three could have been chosen

Concern	Percentage
Access to recreation and activities	11.8%
Affordability	22.5%
Close to shopping and other services	14.6%
Convenient work commute	16.5%
Near healthcare facilities	5.2%
Other	2.9%
Quality of Schools	13.2%
Walkable and Bikeable	13.3%

Word cloud: crime, trees, area, safe, near, options, around, quality, family, house, city, much, safety, more, housing, taxes, community, convenient, low, lot, choices, transit, close, access, neighborhood

Q12. *Is there anything else…?*

Q12. Is there anything else you would like to share to influence how transportation investments are made in our region?

2045 RTP Update – Phase 2 Outreach

August 17, 2022
RTP Subcommittee

H-GAC
METROPOLITAN
PLANNING
ORGANIZATION

DRAFT RTP Update – Phase 2 Outreach

- Focus:
  - Visioning Outreach
    - Who responded? What did they say?
  - Strategies
    - Address Visioning feedback and RTP requirements
  - "Vision Map" of existing investments
  - Needs, desired outcomes, and future tasks
- Timeframe:
  - October 3, 2022 to December 1, 2022
- Where:
  - Online participation – engage.h-gac.com
  - Up to 8 in-person meetings – TBD (could change)

H-GAC
METROPOLITAN
PLANNING
ORGANIZATION