



Item 5. 2023 TAC Subcommittee Nominations



Transportation Advisory Committee
March 15, 2023

TAC Nominations Committee

- Morad Kabiri, Chair
- Perri D'Armond
- Yancy Scott
- Amy Skicki
- David Wurdlow



TAC Nominations: Officers



Nominated Position	Primary-Name	Organization
Chair	Veronica Chapa-Gorczyński	East End District
First Vice Chair	Morad Kabiri	City of Friendswood
Second Vice Chair	Perri D'Armond	Fort Bend Transit

TAC Nominations: Pedestrian-Bicyclist



Representing	Primary-Name	Organization	Alternate-Name	Organization
Active Transportation	Patricia Kievlan	Bike The Woodlands Coalition	Todd Stephens	The Woodlands Township
Citizen Advocates	Joe Cutrufo	BikeHouston	Kristina Ronneberg	BikeHouston
Citizen Advocates	Dexter Handy	Greater Houston Coalition for Complete Streets	Harrison Humphreys	Air Alliance Houston
Citizen Advocates	Roy Lira	Houston Super Neighborhood Alliance	Kevin Strickland	Super Neighborhood 15
Transit	Yuhayna Mahmud	METRO	Aubin Phillips	METRO
Local Governments	Melanie Beaman	City of Sugar Land	Ethan Cantu	City of Sugar Land
Local Governments	Carry Capers	City of Pearland	Kevin Carter	City of Pearland
Local Governments	Jessica Cohen	Harris County	Fatima Wajahat	Harris County
Local Governments	John McGowan	The Woodlands Township	Chris Nunes	The Woodlands Township
Local Governments	Brandon Mosley	City of Houston	Lauren Grove	City of Houston
Local Governments	Tyson Arnold	City of Galveston	Robert Winiecke	City of Galveston
Local Governments	John Orsag	City of League City	Chien Wei	City of League City
Local Governments	Ameena Padiath, P.E., PTOE	City of Missouri City	Marcus Snell	City of Missouri City
Management Districts	Robert Fiederlein	North Houston District	Nathan Marquez	BikeHouston & EaDo Bike Co
Management Districts	Anibeth Turcios	Greater Northside Management District	Rebecca Reyna	Greater Northside Management District
Management Districts	Louis Jullien	Westchase District	Lupita Talley	Eastex-Jensen Super Neighborhood
Non-Profit	Lisa Graiff	Houston Parks Board	Virginia Lynn	City of Houston
Planning	Sherry Weesner	Memorial Heights Redevelopment Authority	vacant	
State	Brenda Bustillos	TxDOT Houston	Stephan Gage	TxDOT Houston
Transit	Thien Cao	Harris County Transit	Robert Anders	Harris County Transit
Transit	Sarah Coulter	Fort Bend County	Sharon Moses-Burnside	City of Houston
Management Districts	Natali Hurtado	International Management District	vacant	

TAC Nominations: Regional Transportation Plan

Nominated Position	Primary-Name	Organization	Alternate-Name	Organization
Active Transportation	Joe Cutrufo	BikeHouston	Nikki Knight	Southeast Management District
Airport	Bill Zrioka	Houston Airport System	Marcel Allen	Houston Airport System
Business Interest	Elijah Williams	Energy Corridor District	Elizabeth Whitton	Energy Corridor District
Citizen Interest	Peter Eccles	LINK Houston	Dexter Handy	Citizen Transportation Coalition
Environmental	Harrison Humphreys	Air Alliance Houston	Amy Skicki	BAYTRAN
Local Government	Monique Johnson	City of Sugar Land	Marcus Snell	City of Missouri City
Local Government	David Fields	City of Houston	Ian Hlavacek	City of Houston
Local Government	Kimberly Judge	City of Dayton	Shashi Kumar	City of Missouri City
Local Government	Patrick Mandapaka	Harris County	Jay Knight	Liberty County
Local Government	Todd Stephens	The Woodlands Township	Ruthann Haut	The Woodlands Township
Local Government	Morad Kabiri	City of Friendswood	Jildardo Arias	City of Friendswood
Local Government	Cara Davis	City of League City	Christopher Sims	City of League City
Local Government	Jameson Appel	City of Pearland	Yolci Ramirez	City of Pearland
Local Government	Perri D'Armond	Fort Bend County	Stacy Slawinski	Fort Bend County
Planning	Katherine Parker	Gulf Coast Rail District	Katherine Summerlin	City of Houston
Port	Bruce Mann	Port Houston	Rohit Saxena	Port Houston
Port	Mike Wilson	Port Freeport	Jason Miura	Port Freeport
State	Charles Airiohoudion	TxDOT Houston District	Jeffrey English	TxDOT Houston District
State	Lisa Collins	TxDOT Beaumont District	Arnold Bowles	TxDOT Beaumont District
Transit	Ken Fickes	Harris County Transit	Vernon Chambers	Harris County Transit
Transit	Sean Middleton	Gulf Coast Rail District	vacant	
Transit	Albert Lyne	METRO	Rachel Die	METRO
Toll Road	Brian Alcott	HCTRA	vacant	

TAC Nominations: Regional Transit Coordination

Nominated Position	Primary-Name	Organization	Alternate-Name	Organization
Local Government	Sharon Moses-Burnside	City of Houston	Brandon Mosley	City of Houston
Local Government	Melanie Beaman	City of Sugar Land	Monique Johnson	City of Sugar Land
Local Government	Angel Ponce	City of Houston	Huey German-Wilson	Northeast Houston Redevelopment Council
Business Interests	Tandelyn Weaver	Lift Fund/TIRZ 9 South Post Oak	vacant	
Citizens Interests	Philip Salerno	Greater Inwood Super Neighborhood	Charles Noble	Fontaine Place and Scenic Woods Civic Club
Social Services/HHS	Alan Watkins	Houston Housing Collaborative	vacant	
Social Services/HHS	Paula Johnson	City of Houston	vacant	
Social Services/HHS	Thomas Holstien	BakerRipley	vacant	
Social Services/HHS	Lanny Brown	Community Health Network	vacant	
Transit Agency	Ruthanne Haut	The Woodlands Township	vacant	
Transit Agency	Shain Eversly	METRO	Tatyana Luttschlager	METRO
Transit Agency	Vernon Chambers	Harris County Transit	Shekeylia Douglas	Harris County Transit
Transit Agency	Perri D'Armond	Fort Bend County	Sarah Coulter	Fort Bend County
Transit Agency	vacant	City of Conroe	vacant	City of Conroe
Transit Agency	Jo Marlow	Brazos Transit District	Kaitlyn Mock	Brazos Transit District
Transit Agency	Claudia Wicks	Colorado Valley Transit	Angela Wallace	Colorado Valley Transit
Transit Agency	Sean Middleton	Gulf Coast Transit District	vacant	Gulf Coast Transit District
Transit Agency	James Oliver	Island Transit	vacant	Island Transit
Ex-Officio	Travis Madison	TxDOT Houston	Brenda Bustillos	TxDOT Houston
Ex-Officio	Arnold Vowles	TxDOT Beaumont	Carol Crapanzano	TxDOT Beaumont

TAC Nominations: Transportation Improvement Program



Nominated Position	Primary-Name	Organization	Alternate-Name	Organization
Active Transportation	Patricia Kievlan	Bike the Woodlands	Veronica Chapa-Gorczyński	East End District
Local Government	David Wurdlow	City of Houston	Veronica Davis	City of Houston
Local Government	Morad Kabiri	City of Friendswood	Jildardo Arias	City of Friendswood
Local Government	Monique Johnson	City of Sugar Land	Melanie Beaman	City of Sugar Land
Local Government	Patrick Mandapaka	Harris County	Susan Fraser	Harris County
Local Government	John McGowan	The Woodlands Township	Ruthanne Haut	The Woodlands Township
Local Government	Robert Reynolds	City of Cleveland	vacant	
Local Government	Rajendra Shrestha	City of Pearland	Trent Epperson	City of Pearland
Local Government	Christopher Sims	City of League City	Cara Davis	City of League City
Local Government	Stacy Slawinski	Fort Bend County	Rick Staigle	Fort Bend County
Local Government	Jean Mann	Montgomery County	John McKinney	Montgomery County
Local Government	Melinda Soliday	Liberty County	Jay Knight	Liberty County
Local Government	Joe Compian	City of LaMarque	vacant	
Local Government	Brandon Cook	City of Galveston	Robert Winiecke	City of Galveston
Planning	Sherry Weesner	TIRZ 5/Memorial Heights Redevelopment	Gabe Cazares	LINK Houston
Port	Bruce Mann	Port Houston	Rohit Saxena	Port Houston
Port	Mike Wilson	Port of Freeport	vacant	
State	Catherine McCreight	TxDOT Houston District	James Koch	TxDOT Houston District
State	Lisa Collins	TxDOT Beaumont District	Scott Ayres	TxDOT Beaumont District
Transit Agency	Ken Fickes	Harris County Transit	Vernon Chambers	Harris County Transit
Transit Agency	Alan Clark	METRO	Clint Harbert	METRO
Transit Agency	Perri D'Armond	Fort Bend County	Pamela LeBrane	Fort Bend County

TAC Nominations: Transportation Air Quality

Nominated Position	Primary-Name	Organization	Alternate-Name	Organization
Environmental/Public Interests/TDM	Casey Brown	Evolve Houston	vacant	
Environmental/Public Interests/TDM	Dexter Handy	Citizens Transportation Coalition	Carol Caul	Citizens Transportation Coalition
Environmental/Public Interests/TDM	Harrison Humphreys	Air Alliance Houston	Stefania Tomaskovic	Coalition for Environment, Equity & Resilience (CEER)
H-GAC	Andrew DeCandis	H-GAC	Caroline Bailey	H-GAC
H-GAC	vacant		vacant	
Local Government	Perri D'Armond	Fort Bend County	Tom Kuczynski	Fort Bend County
Local Government	Ken Fickes	Harris County Transit	Thien Cao	Harris County Transit
Local Government	Brandon Mosley	City of Houston	Virginia Lynn	City of Houston
Local Government	John Geiger	The Woodlands Township	Chris Nunes	The Woodlands Township
Local Government	vacant		vacant	
Port	Kenneth Gathright	Port Houston	Mike Wilson	Port Freeport
Professional/Private	Amy Skicki	BAYTRAN	vacant	
Professional/Private	Meredith Jennings	Houston Advanced Research Center	vacant	
Professional/Private	Gwen Goodwin	TSU Center for Transportation	Bruce Race	University of Houston
State	Charles Airiohuodion	TxDOT Houston	Qing Li	TxDOT Houston
State	Jered Simpson	TxDOT Beaumont	Jason Hightower	TxDOT Beaumont
TCEQ	Jamie Zech	TCEQ	Michael Regan	TCEQ
Transit Agency	Ruthanne Haut	The Woodlands Township	Nicole Mathews	The Woodlands Township
Transit Agency	Edmund Petry	METRO	Vincent Sanders	METRO

TAC Nominations: Transportation Systems Management and Operations



Nominated Position	Primary-Name	Organization	Alternate-Name	Organization
Local Government	Mustaque Rumi	METRO	Ken Brown	METRO
Local Government	Jason Abila	City of Missouri City	vacant	
Local Government	Cara Davis	City of League City	Christopher Sims	City of League City
Local Government	Chris Debaillon	Fort Bend County	Anthony Villa Real	Fort Bend County
Local Government	Richard Goodman	Harris County	Kristian Heighway	Harris County
Local Government	Yolci Ramirez	City of Pearland	Rajendra Shrestha	City of Pearland
Local Government	James Turner	City of Sugar Land	Jason Vaughn	City of Sugar Land
Local Government	Fabio Capillo	City of Houston	Don McGowan	City of Houston
Local Government	Joshua Shideler	City of Houston/TranStar	Mazen Abdulrazzak	City of Houston
Local Government	Martin Herrera	City of Houston	Anthony Powel	City of Houston
Local Government	Robert Winiecke	City of Galveston	vacant	
Port	Bruce Mann	Port Houston	Rohit Saxena	Port Houston
Port	vacant		vacant	
State	Ugonna Ughanze	TxDOT Houston	Valerie Taylor	TxDOT Houston
State	Peter Jungen	TxDOT-BMT	Arnold Vowles	TxDOT-BMT
Transit Agency	David Jones	Harris County Transit	Stephanie Albertson	Harris County Transit
Transit Agency	Sean Middleton	Gulf Coast Transit District	James Oliver	City of Galveston - Island Transit



ITEM 06. 2023 Regional Public Transportation Agency Safety Performance Measures



Transportation Advisory Committee
April 19, 2023

Public Transit Agency Safety Plan (PTASP)



Background Information

- Transit agencies are required by Federal Transit Administration (FTA)
- Tier 1 (METRO and Island Transit)
- Tier 2 (all others)
- Staff coordinate with transit providers to analyze data and form draft recommendations for regional measures

Category Definitions

Fatality – confirmed death within 30 days of a reported event

Injuries – requiring medical attention for two or more individuals

Safety Events – collision, derailment, fire, hazardous material spill, or evacuation

MDBF – mean distance between failures (Revenue Vehicles)

Tier I – METRO and Island Transit

Rates Per 100 K Vehicle Revenue Miles	Mode	2021 Measures	2021 Actuals	2023 Measures
Fatalities	Bus	0	4	0
Fatalities Rate		0	0.008	0
Injuries		194	203	175
Injuries Rate		0.258	0.426	0.425
Safety Events		136	265	136
Safety Events Rate		0.258	0.556	0.33
Mean Distance Between Failures		10,084	7,503	6,750
Fatalities	Paratransit	0	0	0
Fatalities Rate		0	0.000	0
Injuries		35	41	35
Injuries Rate		0.174	0.258	0.174
Safety Events		39	32	39
Safety Events Rate		0.19	0.202	0.289
Mean Distance Between Failures		22,039	25,346	21,000

Tier I – METRO and Island Transit

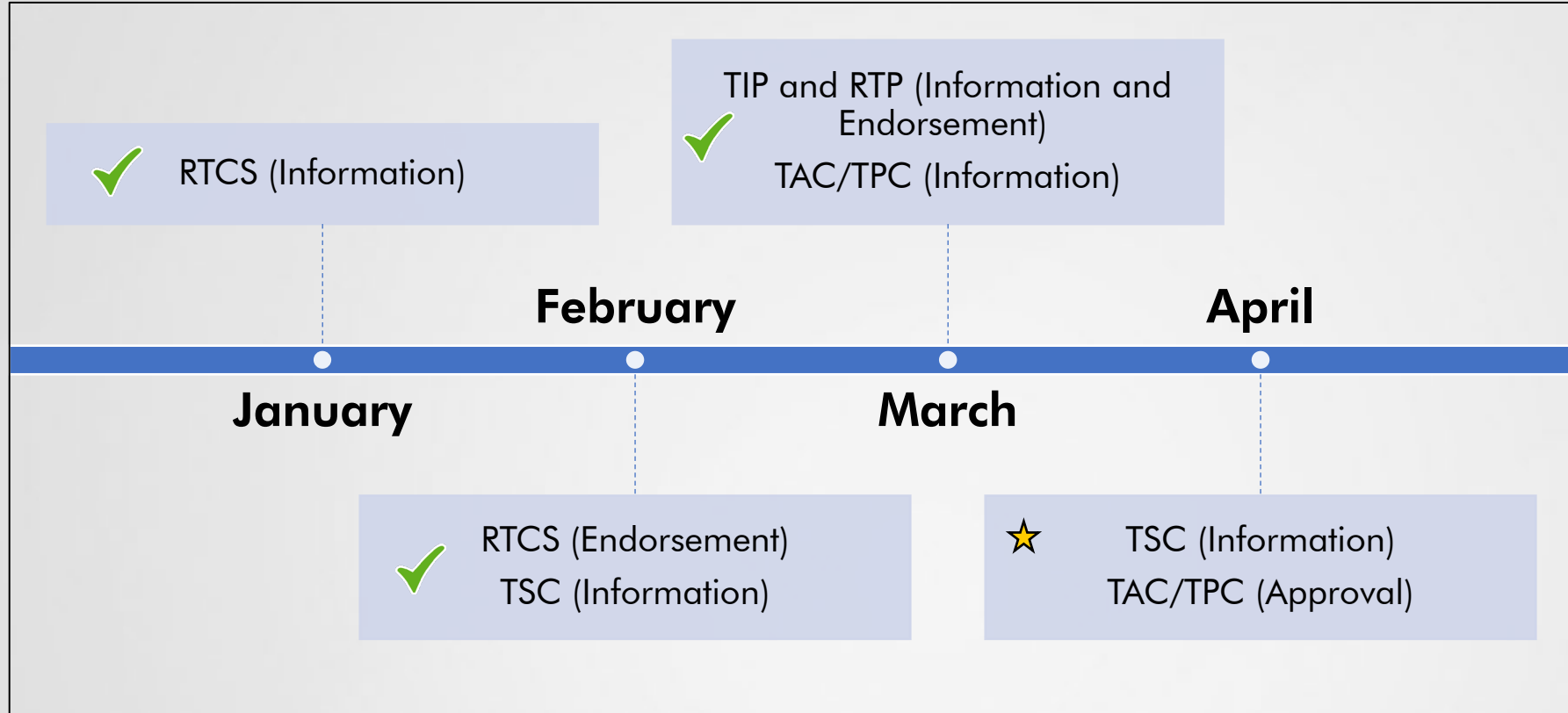
Rates Per 100 K Vehicle Revenue Miles	Mode	2021 Measures	2021 Actuals	2023 Measures
Fatalities	Rail	0	1	0
Fatalities Rate		0	0.032	0
Injuries		50	32	45
Injuries Rate		1.466	1.035	1.886
Safety Events		121	81	100
Safety Events Rate		3.51	2.62	4.715
Mean Distance Between Failures		9,292	17,975	15,000
Fatalities	Bus Rapid Transit	N/A	0	0
Fatalities Rate		N/A	0	0
Injuries		N/A	1	10
Injuries Rate		N/A	0.67	2.651
Safety Events		N/A	2	10
Safety Events Rate		N/A	1.339	2.651
Mean Distance Between Failures		N/A	5,417	4,000

Tier II Transit Agencies

Rates Per Vehicle Revenue Mile	Mode	2021 Measures	2021 Actual	2023 Measures
Fatalities	Fixed Route	0	0	0
Fatality Rates		0	0	0
Injuries		0.49	0	0.28
Injury Rates		0.0000008	0	0.0000010
Safety Events		0.82	0.04	0.53
Safety Event Rates		0.0000020	0.0000018	0.0000020
Mean Distance Between Failures		82,544	---	150,207
Fatalities	Demand Response	0	0	0
Fatality Rates		0	0	0
Injuries		1.34	3.58	1.68
Injury Rates		0.0000013	0.0000044	0.0000015
Safety Events		1.53*	1.80	1.90
Safety Event Rates		0.0000015	0.0000026	0.0000020
Mean Distance Between Failures		386,106	----	288,488

* Typographical error from 2021 Measures listed as 1.93

Timeline



RTCS- Regional Transit Coordination Subcommittee
 RTP – Regional Transportation Plan Subcommittee
 TAC – Transportation Advisory Committee

TIP – Transportation Improvement Program Subcommittee
 TPC- Transportation Policy Council
 TSC – Transportation Safety Committee

Request

- Transportation Advisory Committee recommend for approval staff recommendations for the 2023 Regional Public Transit Agency Safety Performance Measures.



Air Quality Conformity Determination



Graciela Lubertino, PhD
April 19, 2023

What is Conformity?

- Process that links the air quality State Implementation Plan with the regional roadway planning
- Ensures that transportation plans do not delay attainment of National Ambient Air Quality Standard



The SIP
(State Air
Quality
Plan)

conformity

Transportation
Plan, and
Transportation
Improvement
Program (TIP)

Air Quality Status

- Our region is in nonattainment for the 8-hr Ozone Standard

Classification:

Severe for the 2008 8-hr Ozone standard (75 ppb)

Moderate for the 2015 8-hr Ozone standard (70 ppb)

Reason for Conformity Determination

- The 2045 RTP Update and amendments to 2023-2026 TIP
- Full project list found in Appendix 3



Draft Air Quality Conformity Results

Conformity Analysis Results versus Emission Budgets from RFP SIP Serious Classification For 2008 8-hr Ozone Standard

Year	NOx Budget (tons/day)	NOx Emissions (tons/day)	VOC Budget (tons/day)	VOC Emissions (tons/day)	VMT
2023	87.69	59.17 ✓	57.70	33.39 ✓	207 M
2026	87.69	48.85 ✓	57.70	28.73 ✓	218 M
2030	87.69	43.14 ✓	57.70	25.32 ✓	237 M
2040	87.69	42.24 ✓	57.70	22.51 ✓	279 M
2045	87.69	44.57 ✓	57.70	22.75 ✓	298 M

NOx- Nitrogen Oxides

VOC-Volatile Organic Compounds

VMT-Vehicle Miles Traveled



Proposed Timeline

- ✓ **December 7, 2022:** Coordination with agency partners/TAC and TPC announcement to start new conformity – Pre-Con consensus document
- ✓ **January 2023:** Review for model networks and Pre-Analysis Consensus document
- ✓ **January 2023:** Travel demand model runs
- ✓ **February 2023:** Air quality model runs
- ✓ **March 2023:** TAC and TPC preview. Conformity documentation
- ✓ **March/April:** Public comment period (March 15- April 17)– Public meeting: March 21st
- **April 2023:** Public comment responses. TAC/TPC approval
- Receive Federal Approval – 3 months later

<https://www.h-gac.com/transportation-conformity/2023>



2045 Regional Transportation Plan Update



Anita Hollmann Matijcio
April 19; TAC

Report Outline & Presentation Highlights



1. Introduction: 2045 RTP Update Process
2. Vision, Goals, Performance Measures, and Strategies
3. The Current Transportation System:
Challenges/Opportunities
4. Action Plan
 1. Corridor and Subregional Investments
 2. Anticipated Federal and State Revenues
 3. Air Quality Conformity
 4. List of Appendixes

What is the Regional Transportation Plan (RTP)?

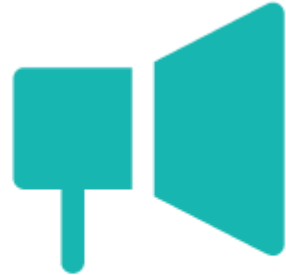
- The Transportation Future for our Region
- 20+ year outlook, updated every 4 years
- Aligns with Federal, State, and Local vision
- Assessment of Needs and Priorities
- Financially constrained Action Plan
- Required to receive Federal funding



Timeline



Public Comment Summary



Public Meetings

40



Opportunities for Engagement

11 Million



Visits to Project Page

18 Thousand

Visioning Outreach – What we heard



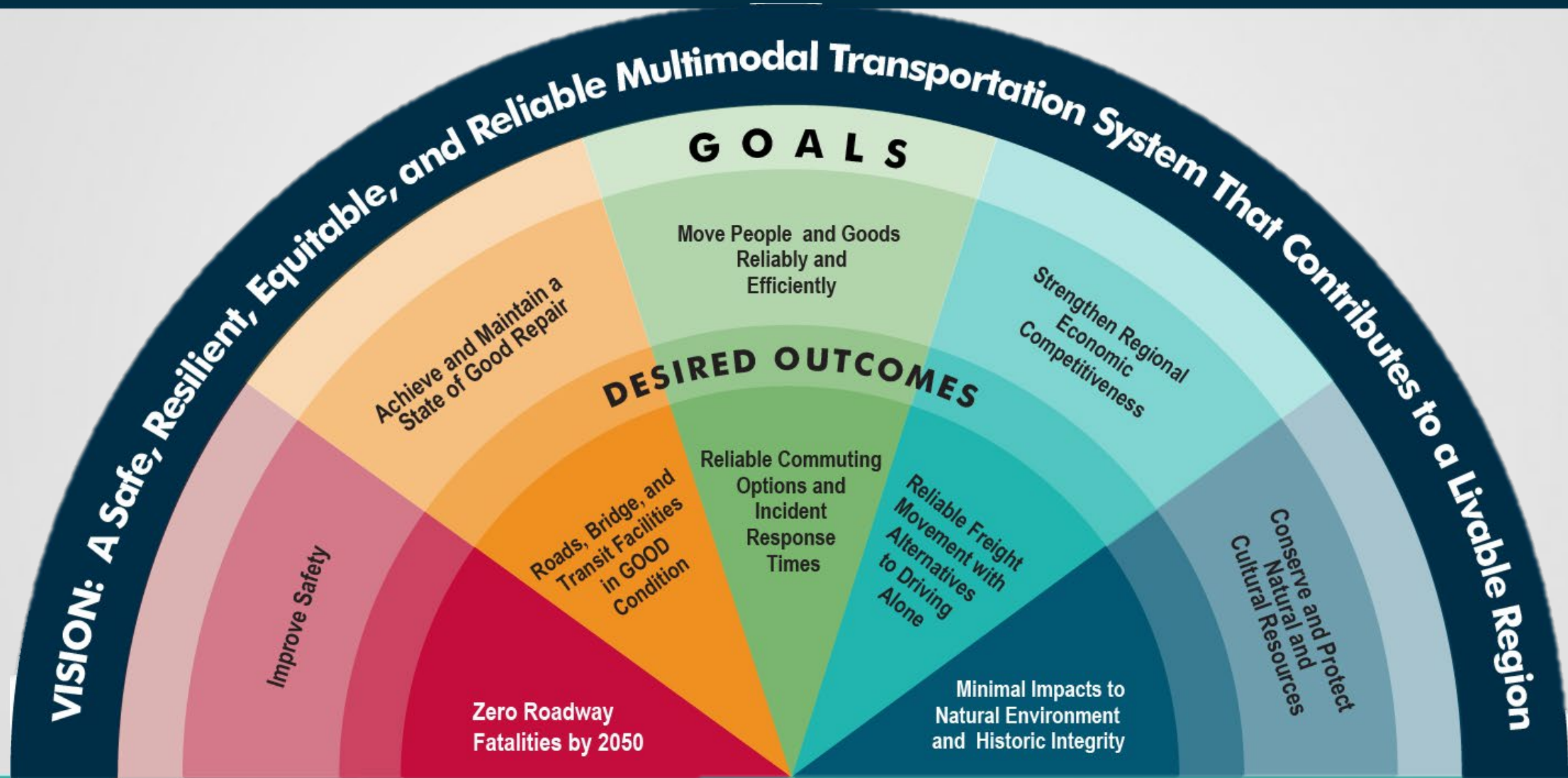
- Safety
 - Respondents want to travel safer, not faster
- Mobility Options
 - Inside Beltway 8 – need better quality roads and variety of travel options
 - Outside Beltway 8 – need shorter commutes, convenient public transportation
- Congestion
 - Reliable travel times is a primary concern
- Proximity
 - Preference for affordable living near work, shopping, and services



Vision, Goals, and Desired Outcomes

Vision	A Safe, Resilient, Equitable, and Reliable Multimodal Transportation System That Contributes to a Livable Region				
Goals	Improve Safety	Achieve and Maintain a State of Good Repair	Move People and Goods Reliably and Efficiently	Strengthen Regional Economic Competitiveness	Conserve and Protect Natural and Cultural Resources
Performance Measure Area	Reduce Fatalities and Serious Injuries for All Modes	Pavement and Bridge Condition Transit Asset Management	Increase Reliability Expand Multimodal Network Improve Incident Response	Increase Truck Travel Time Reliability Increase Non-Single Occupancy Vehicle Travel	Emission Reductions Reduce Impacts Requiring Mitigation
Desired Outcome	ZERO Roadway Fatalities by 2050	Roads, Bridge, and Transit Facilities in GOOD Condition	RELIABLE Commute Options and Incident Response Times	RELIABLE Freight Movement with Alternatives to Driving Alone	MINIMAL IMPACTS to Natural Environment and Historic Integrity

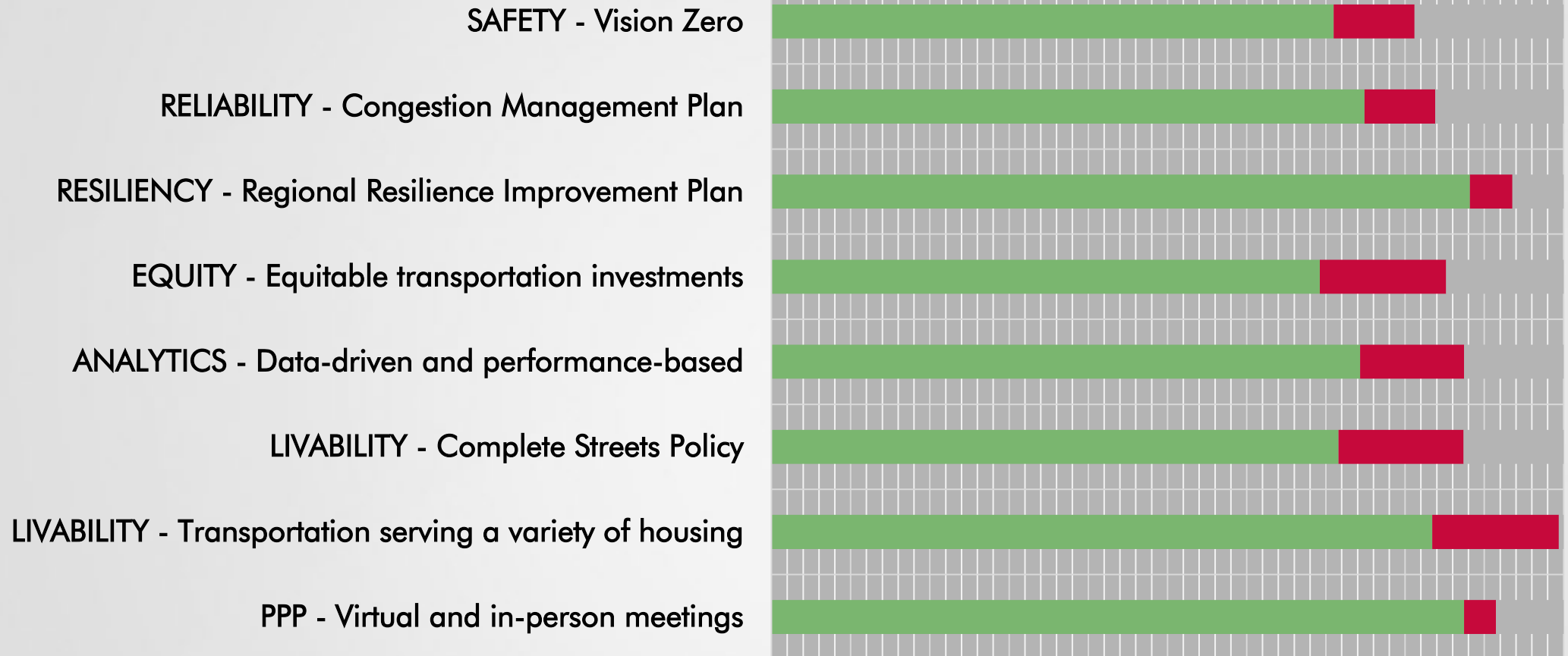
Vision, Goals, and Desired Outcomes



Prioritization Outreach – What we heard



0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%



2045 Regional Transportation Plan Update



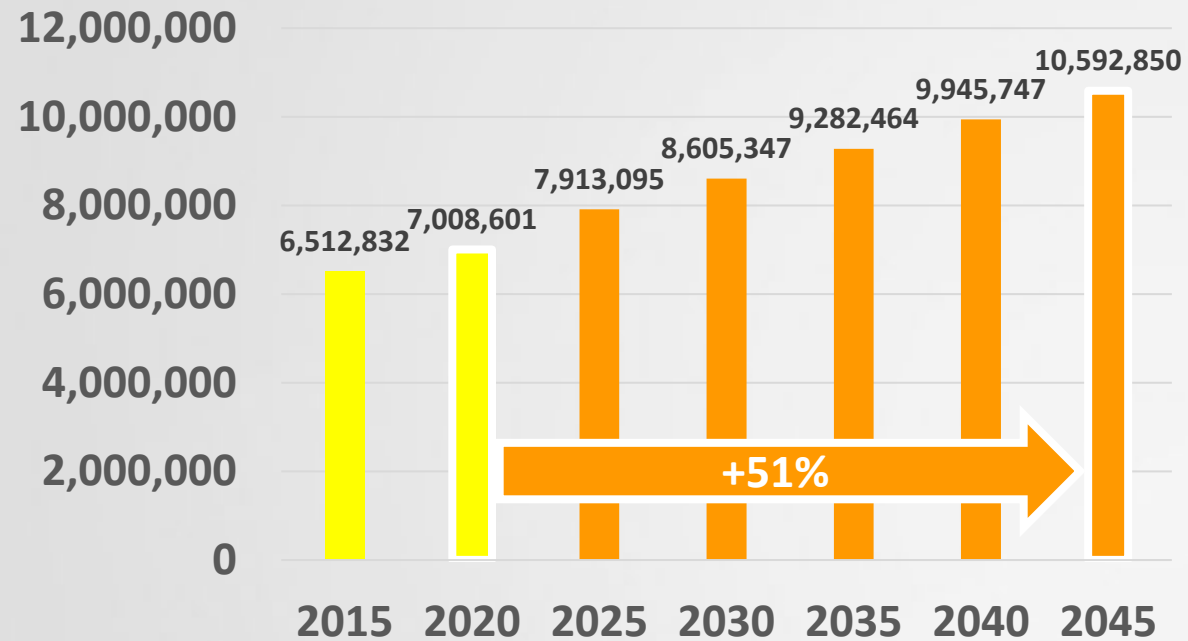
Help Make Getting Around the Gulf Coast Region Better for Years to Come



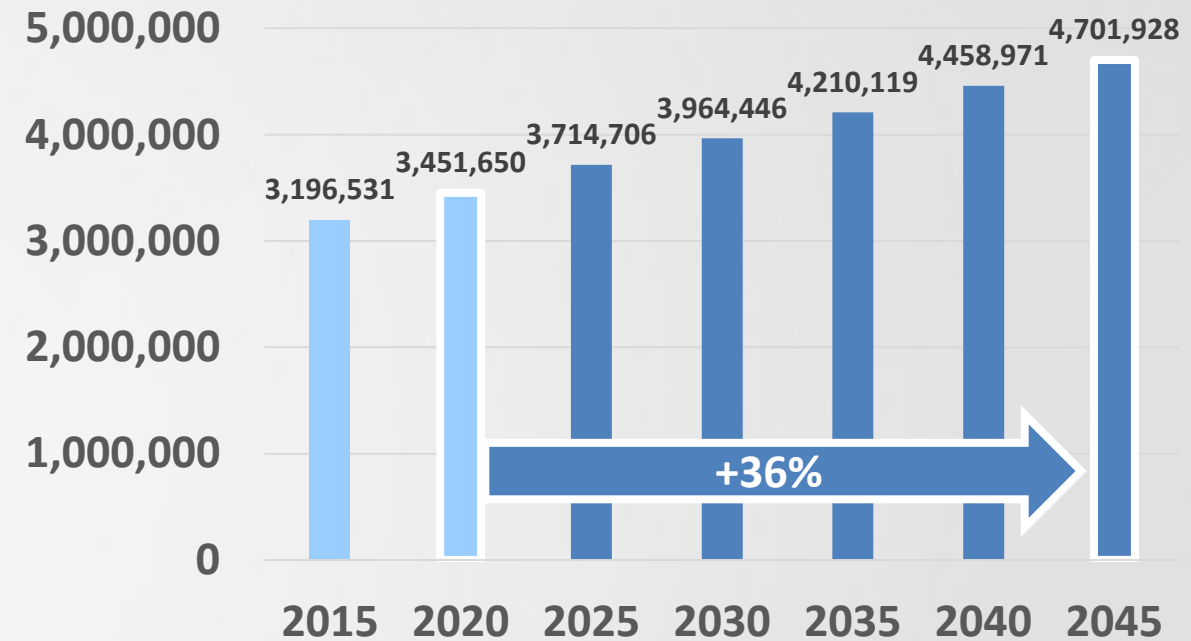
**The Current Transportation System:
Challenges, Opportunities & Action Plan**

Household Population and Jobs 2020 and 2045

Regional Household Population



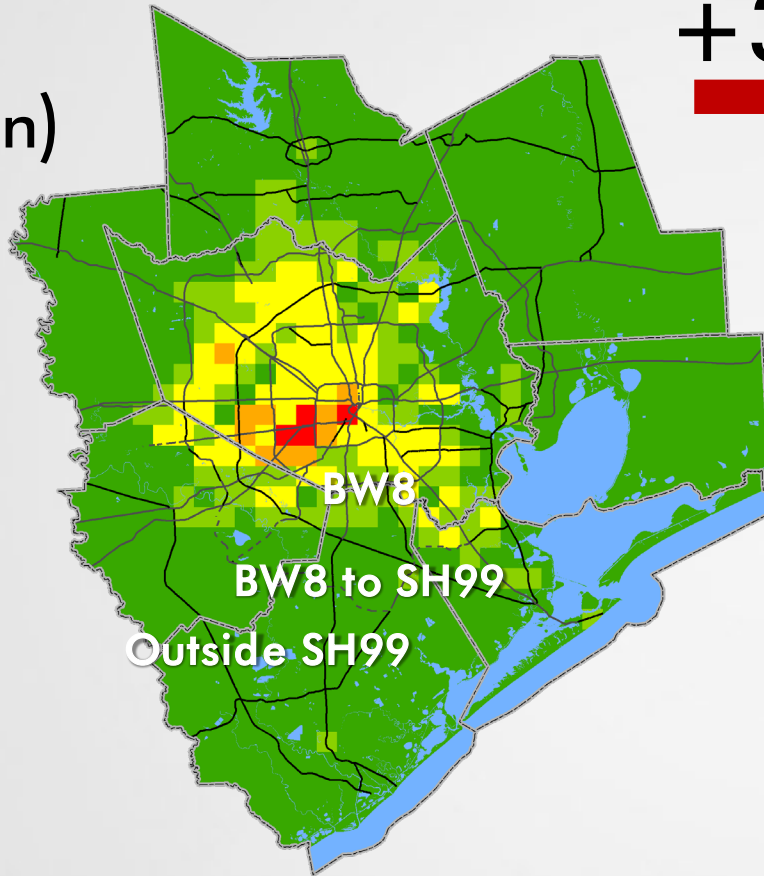
Regional Jobs



Where do the region's RESIDENTS live?

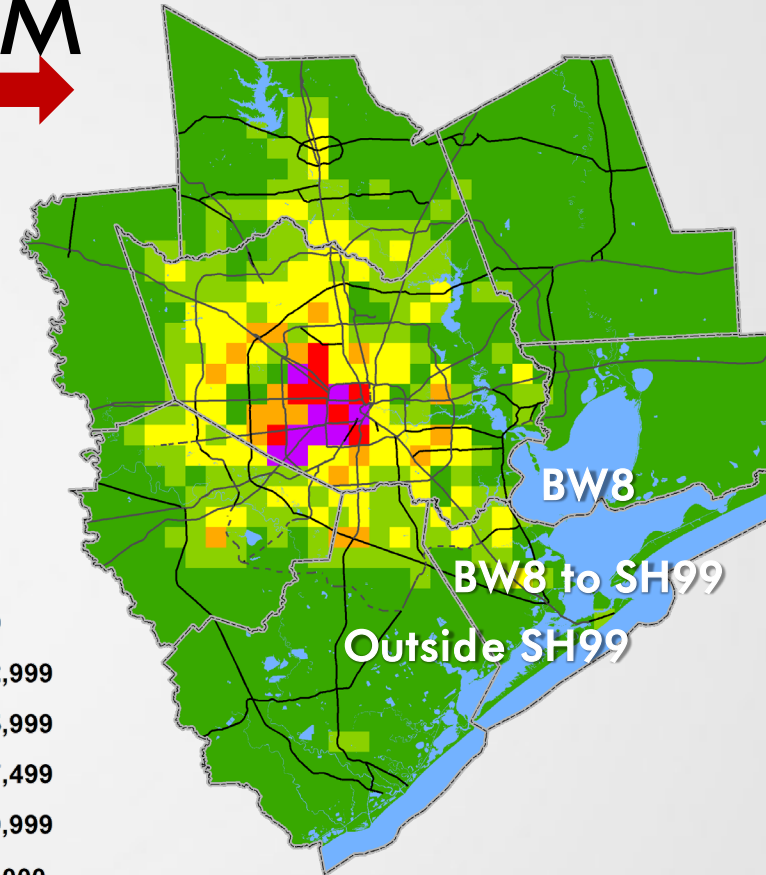
Household Population by 3 Mile Grids

2020
(7.0 Million)

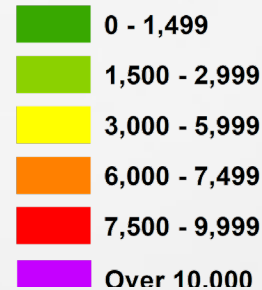


+3.59 M
→

2045
(10.59M)

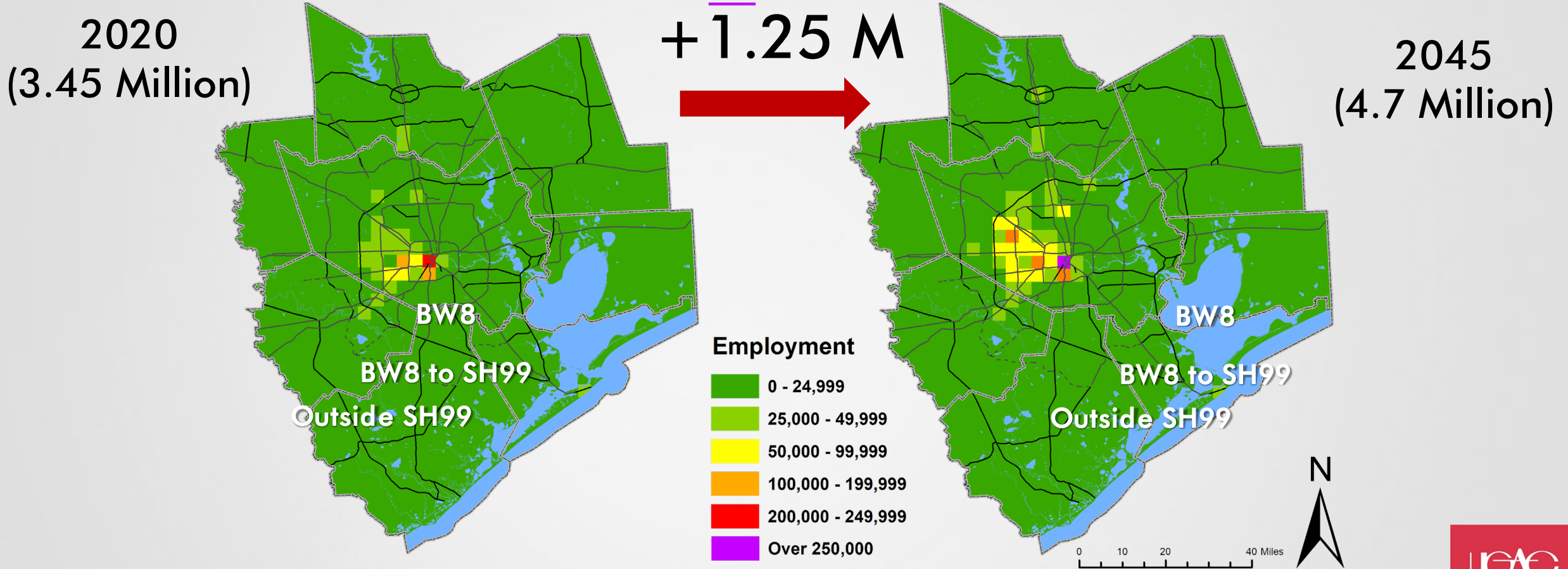


Population



Where are the region's JOBS?

Total Jobs by 3 Mile Grids



The Current Transportation System



- Roadways
- Public Transportation
- Active Transportation
- Freight
- Aviation Facilities
- Ferry Operations
- Parking



Challenges

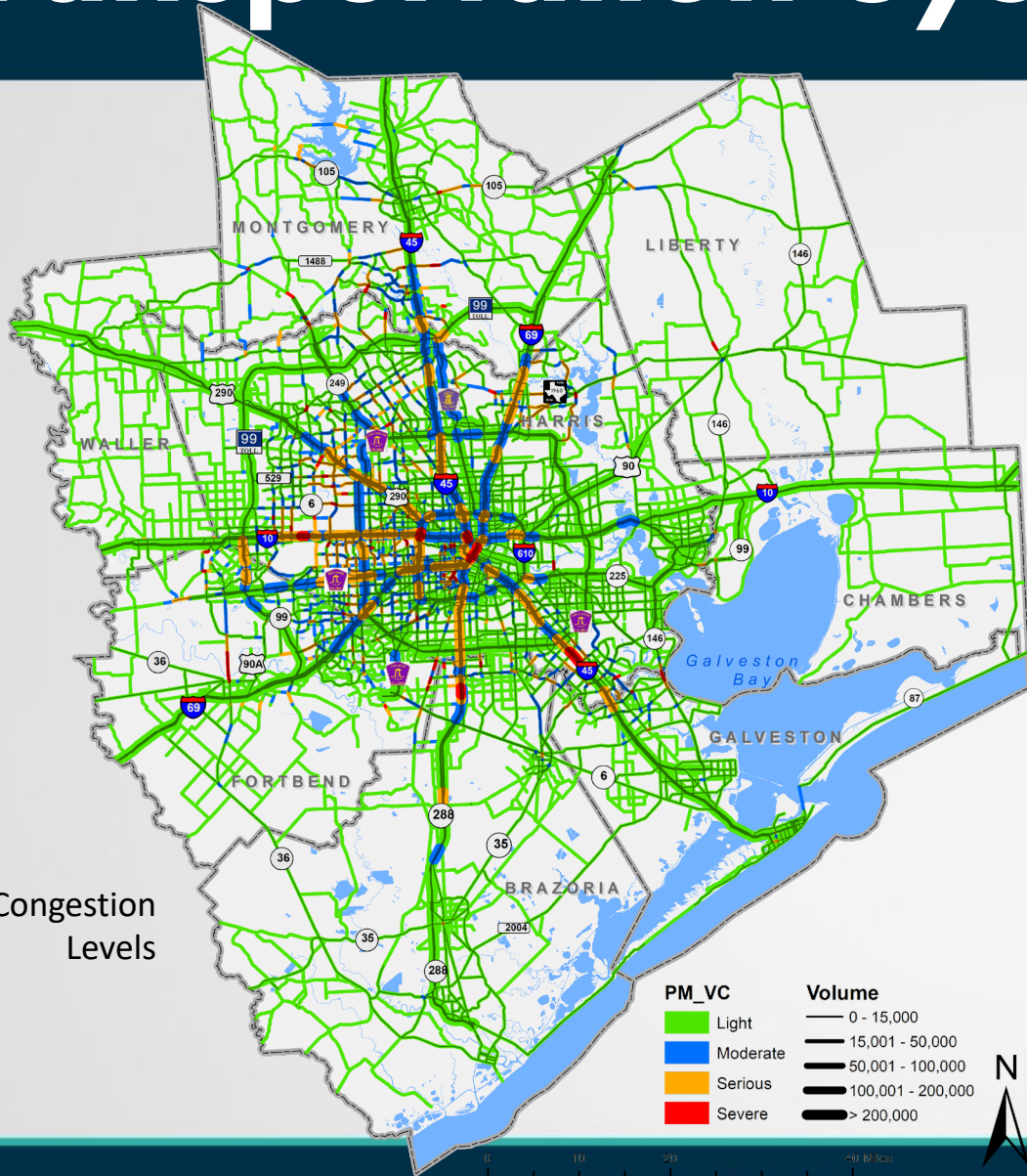


Opportunities

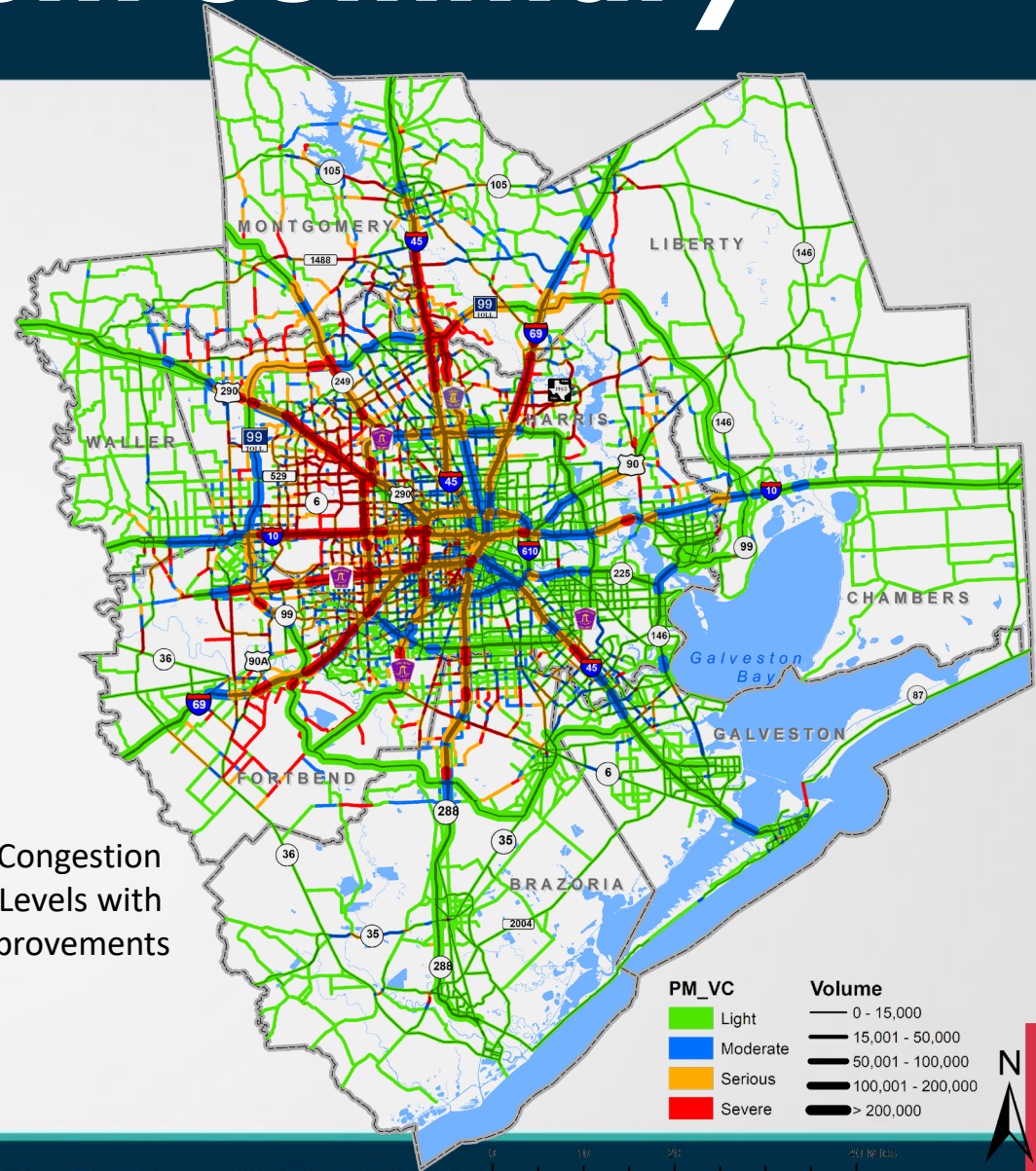


Transportation System Summary

2020 Congestion Levels



2045 Congestion Levels with Improvements



Summary of Challenges



- Safety: SOVs, Active Transportation, Freight
- Bottlenecks: Congestion and Connectivity
- Condition of facilities
- Lack of Transit Access & Reliability
- Limited Active Transportation
- Increasing Freight Network Demands and Limited Funding
- Parking scarcity and increased demand

Summary of Recommendations: Roadways

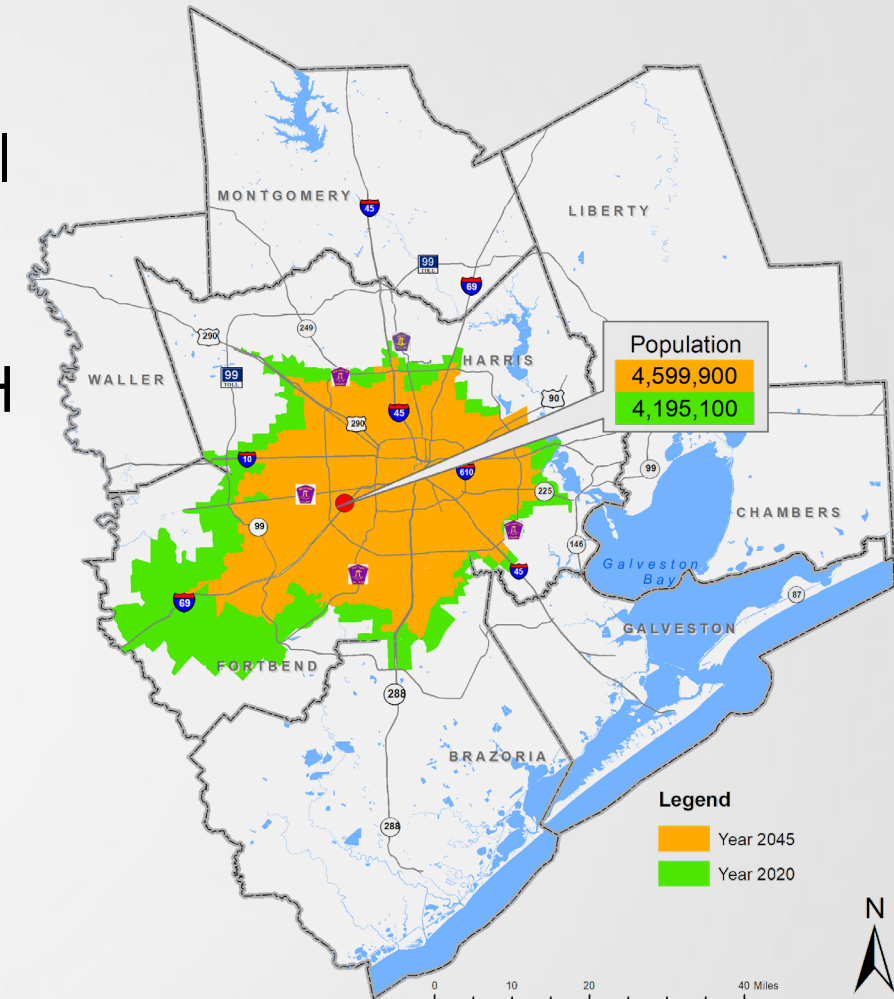
2020 PM4hr Vehicle Travel Time from Sharpstown

Action Plan Elements

- Summary of Major Corridor and Subregional Investments
- Corridor Summary Sheets, Appendix G
- Demographic & Modeling maps, Appendix H

Other Recommendations

- Included in other Action Plan programs



Summary of Recommendations: Public Transportation

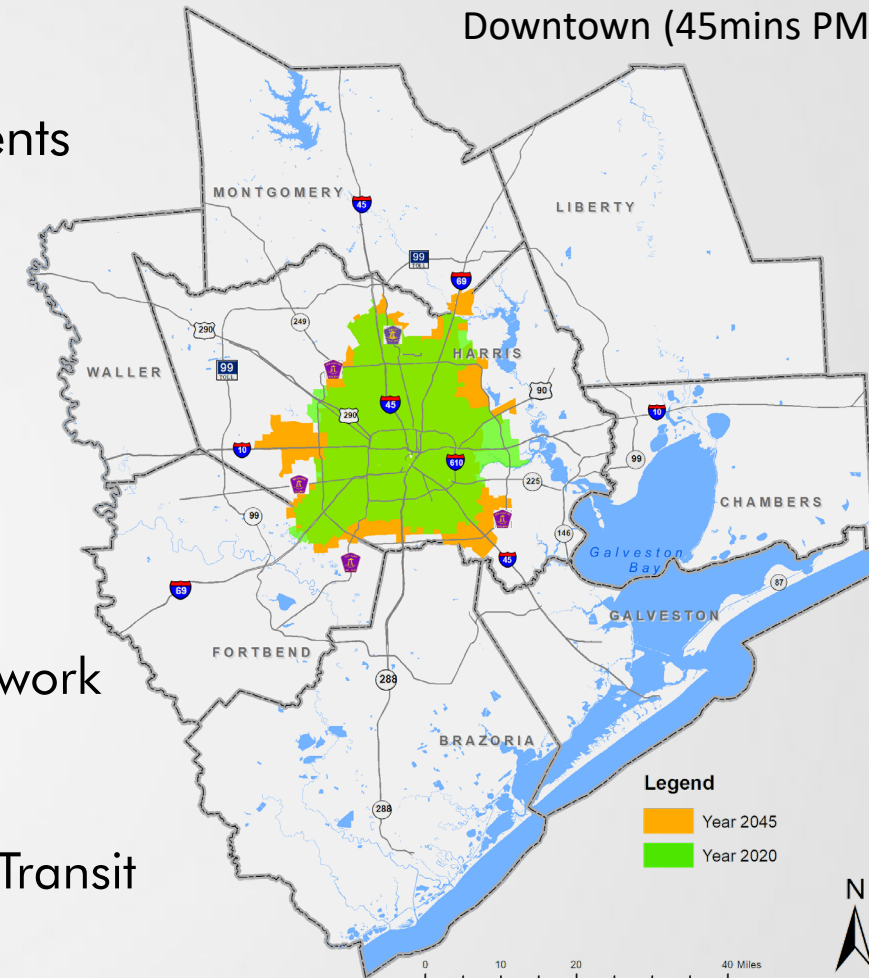
Action Plan Elements

- Summary of Major Corridor and Subregional Investments
- Implementation of the High-Capacity Priority Network
- Encourage the concepts and policies that support the increased use of transit

Other Recommendations

- Evaluate impacts of growth scenarios on HCT Priority Network
- Study feasibility for additional service outside Beltway 8
- Identify priority development opportunities around future Transit Centers / Park and Ride locations

Transit Travel Time from
Downtown (45mins PM4hr)



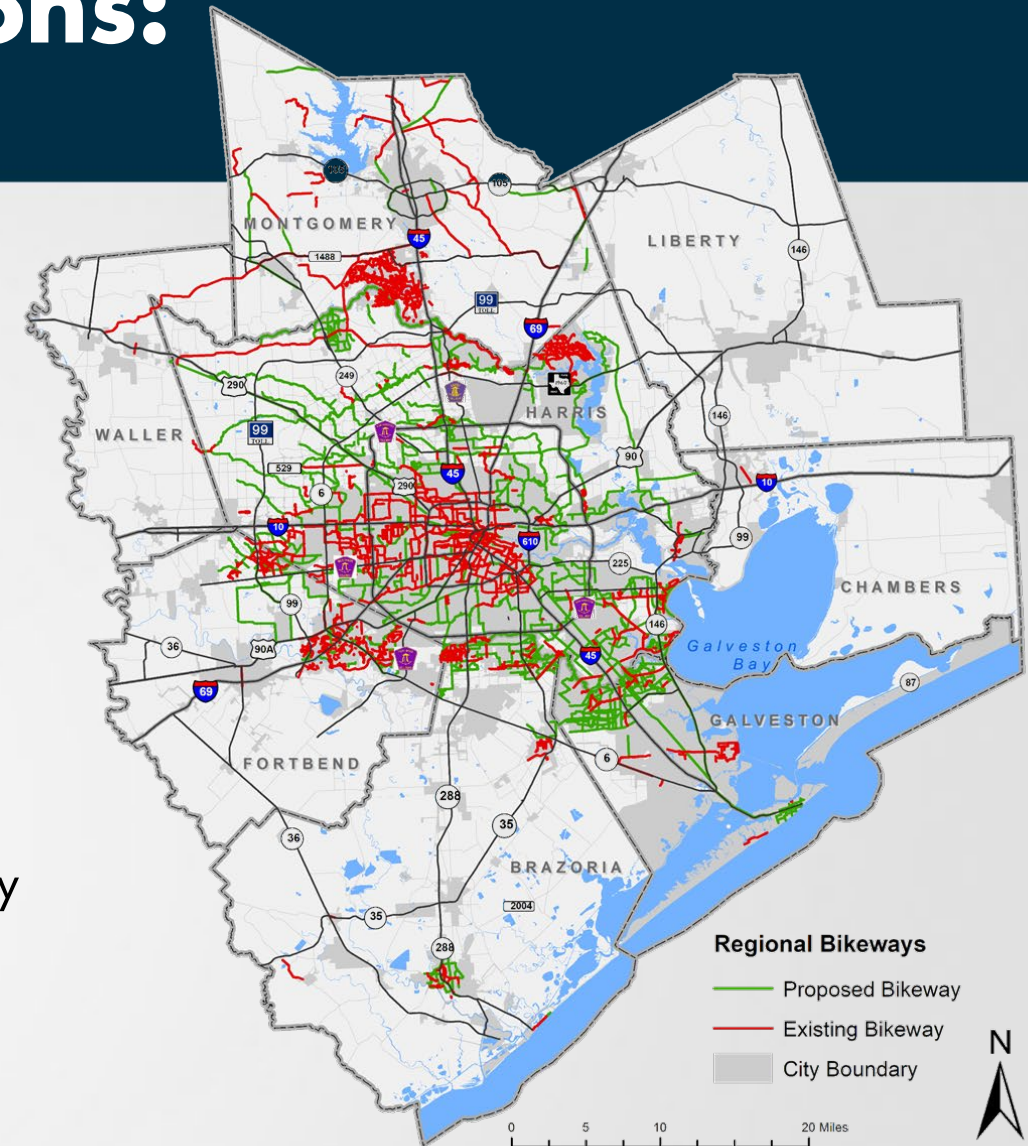
Summary of Recommendations: Active Transportation

Action Plan Elements

“Pedestrians and bicyclists of all ages and abilities can travel conveniently and comfortably in all communities using connected and well-maintained networks of walkways and bikeways.”

Other Recommendations

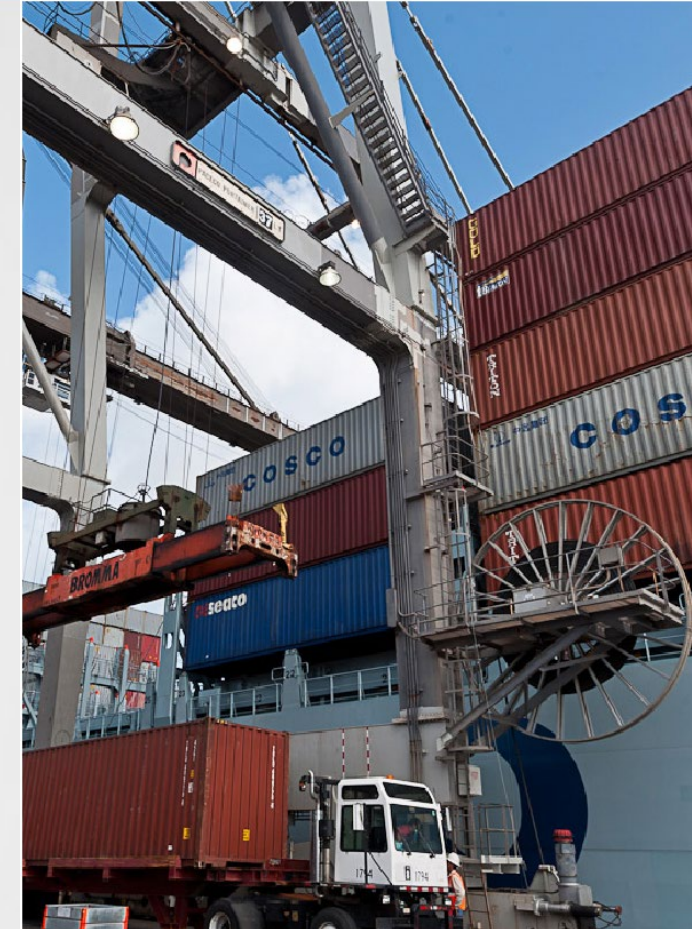
- Update Active Transportation Plan to identify specific priority projects
- Other recommendations included in other Action Plan programs



Summary of Recommendations: Freight

■ Action Plan Elements

- Summary of Major Corridor and Subregional Investments
- Collaborate with regional partners to mitigate short-term deficiencies on the freight-significant network, including at-grade railroad crossings
- Develop a concept of operations for a freight ITS program
- Improve flow of containers through a virtual container yard to reduce truck trips
- Provide access to growing economic centers outside the urban core



Summary of Recommendations: Aviation Facilities

- Action Plan Elements
 - Recommendations included following sections:
 - Major Corridor and Subregional Investments
 - Freight
 - High-Capacity Transit elements



Summary of Recommendations: Ferry Operations

■ Action Plan Elements

- Recommendations for federal and state funded ferry improvements in Major Corridor and Subregional Investments



Photo: Galveston Ferry Terminal

Summary of Recommendations: Parking

■ Action Plan Elements

- Recommendations for Transit Center / Park and Ride facilities included in High-Capacity Transit element
- Recommendations for Commercial Vehicle Parking would be part of Freight and Regional Goods Movement recommendations



2045 Regional Transportation Plan Update

Help Make Getting Around the Gulf Coast Region Better for Years to Come



Corridor and Subregional Investments



Corridor-based and Subregional – Investments

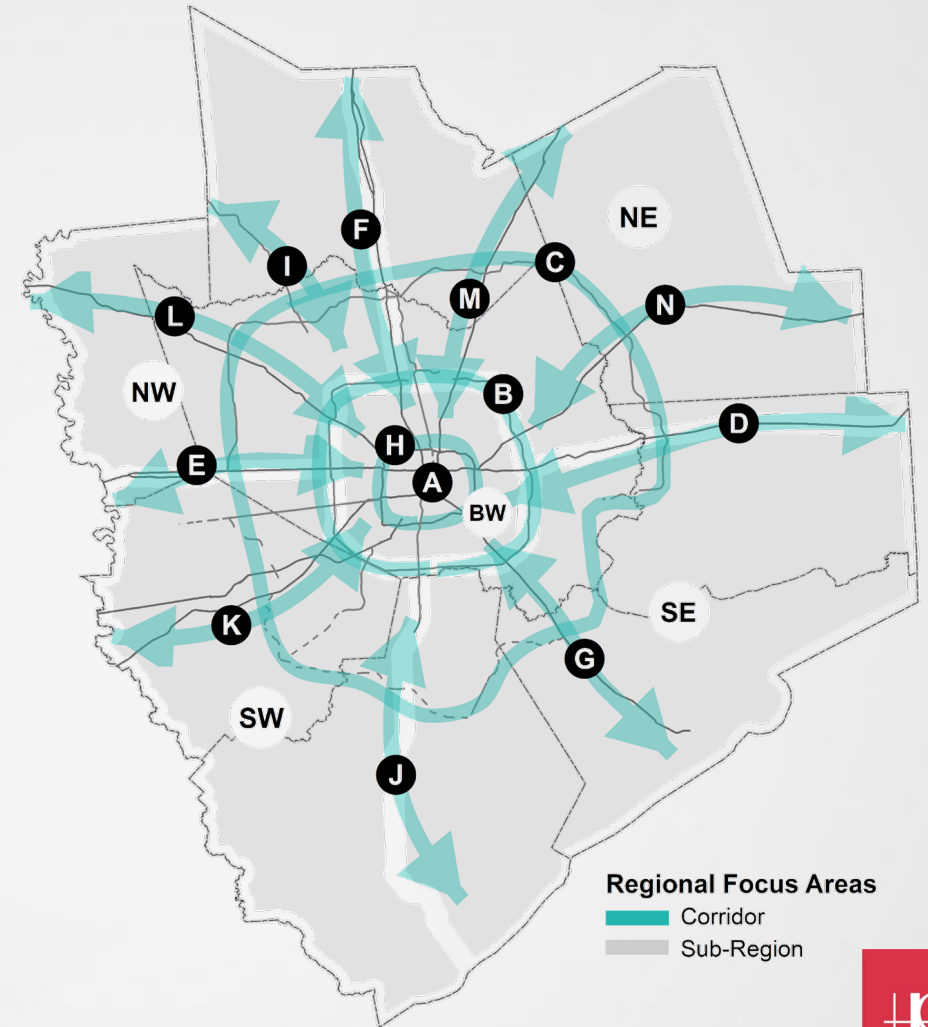


- Summary Table includes:

- Corridors / Subregions
- Type of Investment
 - Roadway, Transit, etc.
- Amount for each facility

- Summary Sheets

- Located in Appendix



INVESTMENT CATEGORIES

Investment Corridor	Total Investment in Millions	INVESTMENT CATEGORIES									
		Regional Goods Movement	Operational	High Growth Area Needs	Active	Transit	Major Projects	Resiliency & State of Good Repair	Safety	Air Quality	Planning/ Study
A. Downtown Houston	\$6,942	■	■	■			■	■	■		
B. BW 8	\$1,858	■	■	■		■	■	■	■		
C. Grand Parkway	\$3,937	■	■	■			■	■	■		
D. IH 10 E Corrdor	\$2,301	■	■	■		■	■	■	■		
E. IH 10 W Corridor	\$7,139	■	■	■		■	■	■	■		
F. IH 45 N Corridor	\$4,230	■	■	■	■	■	■	■	■		
G. IH 45 S Corridor	\$1,455	■	■			■	■	■	■		
H. IH 610 Loop	\$641	■	■	■			■	■	■		
I. SH 249 Corridor	\$487	■	■	■		■	■	■	■		
J. SH 288 Corridor	\$1,534	■	■	■			■	■	■		
K. IH 69 S Corridor	\$12,780	■	■	■	■	■	■	■	■		
L. US 290 Corridor	\$8,468	■	■	■		■	■	■	■		
M. IH 69 N Corridor	\$211	■	■	■		■	■	■			
N. US 90	\$200	■	■	■				■	■		
SUBREGIONS AND REGIONAL PROGRAMS											
BW. Inside BW 8	\$6,635	■	■	■		■	■	■	■		
NE. Northeast Subregion	\$1,387	■	■	■	■	■	■	■	■		
NW. Northwest Subregion	\$3,597	■	■	■	■	■	■	■	■		
SE. Southeast Subregion	\$3,496	■	■	■	■	■	■	■	■		
SW. Southwest Subregion	\$3,709	■	■	■	■	■	■	■	■		
Air Quality	\$290									■	
Transit	\$6,144		■		■	■	■	■		■	■
Regional Other	\$177		■		■	■	■	■	■		■
Regional Highway, Transit Operations & Maintenance	\$31,639		■			■	■	■	■		
TOTAL INVESTMENT:	\$109,257										

Corridor & Subregional Investments



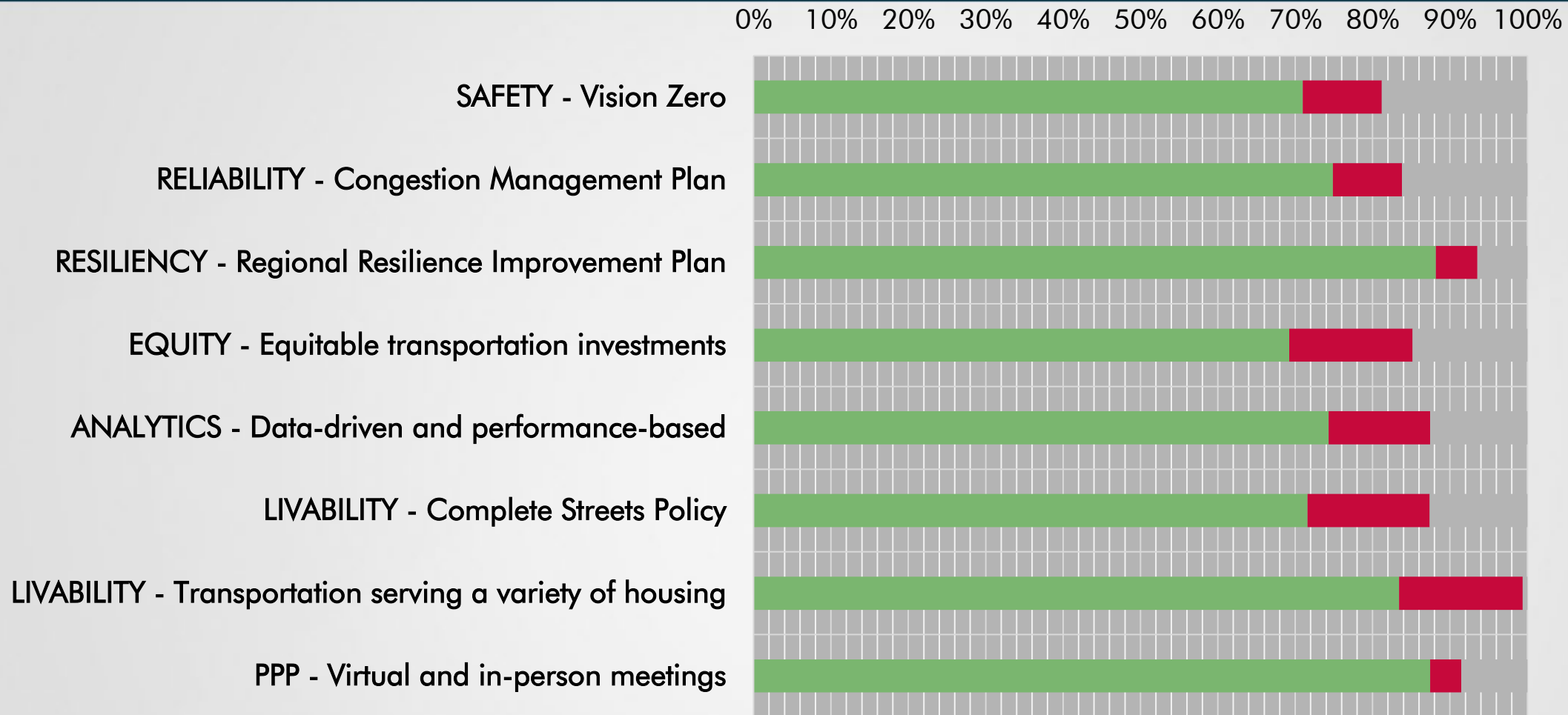
2045 Regional Transportation Plan Update

Help Make Getting Around the Gulf Coast Region Better for Years to Come



Next Step & Planning Strategies

Planning Strategies & Next Steps



Summary of Planning Strategies



- ✓ **Safety:** Build on Vision Zero Policy through a “Safe System Approach” and Regional Action Plan.
- ✓ **Reliability:** Develop a Congestion Management Plan and Regional Resiliency Improvement Plan.
- ✓ **Equity:** Create Regional Equity Policy

Planning Strategies continued...



- ✓ **Livability:** Provide housing and mobility variety via Complete Streets Prioritization Plan, TODs, and High Growth Areas.
- ✓ **Analytics:** Utilize Scenario Planning incorporating performance-based and data informed approaches
- ✓ **Public Outreach:** Build and expand in-person and virtual platforms
- ✓ **Emerging Technologies:** Electronic Vehicle Infrastructure

2045 Regional Transportation Plan Update

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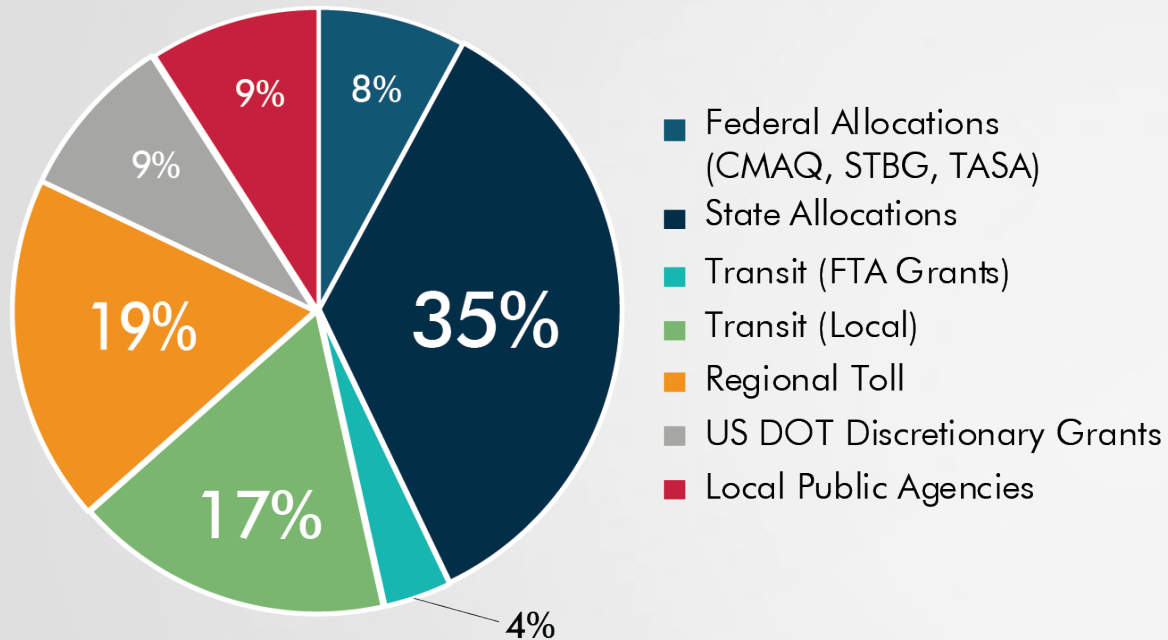


Anticipated Funding Sources

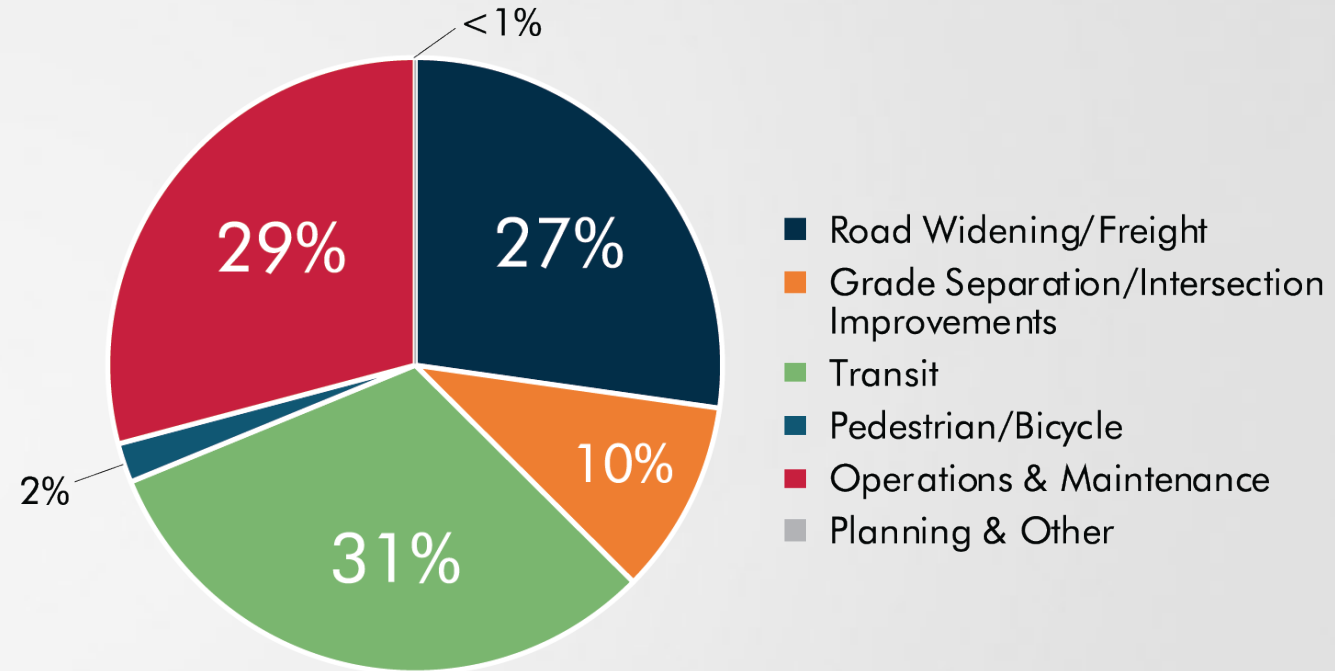


Fiscal Constraint

2045 RTP Update Revenue by Source
Total: \$141 Billion



2045 RTP Update Expenditures by Type
Total: \$109 Billion



Draft RTP Update Review & Conformity

Help Make Getting Around the Gulf Coast Region Better for Years to Come



Public Review Period

March 15 – April 17, 2023

h-gac.com/rtp;

Publiccomments@h-gac.com



Phase 3 Outreach Strategy

Tier 1

Everyone receives a toolkit to easily share & disseminate

Tier 2

Presenting to H-GAC sub-committees & special interest groups

Tier 3

Attend events of regional importance

Tier 4

Digital marketing campaign

Outreach: In-Person

Sub-Committee & Stakeholder Meetings



- ✓ **February 2** - Transportation System Management & Operations Sub-Committee
- ✓ **February 9** - Regional Transit Coordination Subcommittee
- ✓ **February 15** - Transportation Advisory Committee
- ✓ **February 15** - Houston Minority Business Suppliers
- ✓ **February 24** - Transportation Policy Council
- ✓ **March 1** - Transportation Air Quality Sub-Committee
- ✓ **March 21** - Virtual Public Meeting
- ✓ **March 21** - Waller Economic Development
- ✓ **March 21** - H-GAC Board of Directors Meeting
- ✓ **April 5** - Transportation Improvement Program Sub-Committee
- **April 13** - BAYTRAN
- **April 19** - Conroe Lions Club



Regional Collaboration • Transportation Planning • Multimodal Mobility

Events in MPO Region

- ✓ **March 19** - Houston Livestock Show & Rodeo
- ✓ **March 25** - Farmers Market at Imperial
- ✓ **April 6** - Cleveland Livestock Show & Rodeo
- ✓ **April 8** - Market Days at Lake Jackson
- ✓ **April 10** - Mont Belvieu Patriot Day Event
- **April 14** - Gulf Coast Days
- **April 15** - Annual Car Show & Family Fun Day Magnolia



Regional Collaboration • Transporta

Regional Collaboration • Transportation Planning • Multimodal Mobility

Outreach: Virtual

2045 Regional Transportation Plan Update & Conformity - Public Engagement



Our region is anticipated to grow by **3.6 million people by 2045**. So how will we adjust our transportation system to accommodate for that growth?

The Houston-Galveston Area Council (H-GAC) has updated their regional transportation plan (RTP) and wants your feedback - does the proposed vision address our region's transportation needs? Do the strategies set our region up for success? Tell us!

- 1. Watch recording of presentation.** The Virtual Public Meeting was held March 21, 2023. If you missed it, or would like to share materials with friends, family or other community members, please see "Public Meeting" tab below.
- 2. Help us promote this effort:** Help promote the Public Review Period. Postcards and an information 1-pager about the RTP Update are available for download. Please see "Documents" tab below.
- 3. Submit a public comment:** Public comments will be accepted from **March 15 - April 17, 2023** and can be submitted using the public comment form below, or by emailing publiccomments@h-gac.com.

Review
Air Quality
Conformity

Read RTP 2045
Update Here

Submit
Public Comment

Documents

- Webpage:

h-gac.com/rtp

- Email:

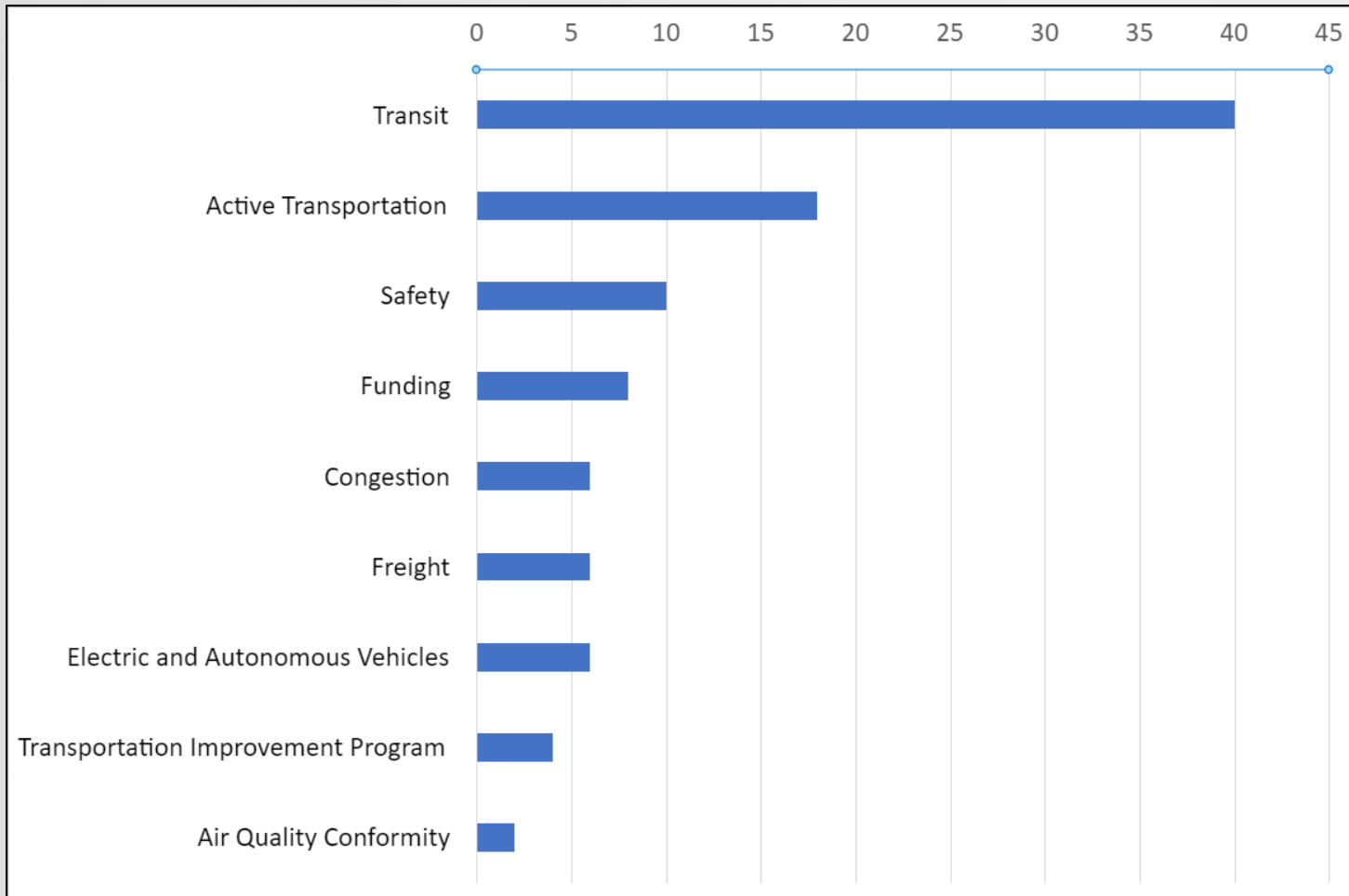
publiccomments@h-gac.com



Houston-Galveston
Area Council

Public Comments - Breakdown

Response by Topic



Submissions

- 76% Online Submission
- 24% Email Submission
- No form letters
- 1 Air Quality Conformity

Commenters:

- Private Citizens
- 1 Agency;
- 1 Interest Group

Public Comments Processed

- Comment Submitted
- Thank You Message Sent
- Comment Processed and Assigned to Program Managers
- Staff expert response provided
- Program Manager QA/QC
- H-GAC Response posted

Appendix J, Public Comment and Response

h-gac.com/rtp



Action: 2045 RTP Update Request

Request TAC recommendation for TPC approval of 2045 Regional Transportation Plan Update Resolution

(Staff Contact: Anita Hollman Matijcio)





Project Selection Process



Transportation Advisory Committee
April 19, 2023

Draft Statements of Interest Summary

Timeframe	# of Projects	Consider In PSP*	Cost (\$B)
Short term (0-5 Years)	310	259	\$7.3
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- Include already programmed projects
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Short-Term Regional Goods Movement

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Total	70	\$3,742	47	\$2,670

*PSP – Project Selection Process

Medium-Term Regional Goods Movement

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Construction	33	\$8,829	1	\$555
Total	53	\$9,767	4	\$630.6

*PSP – Project Selection Process

Long-Term Regional Goods Movement

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Development Only	7	\$3,129	0	\$0
Development & Construction	4	\$304	1	\$104
Construction	7	\$1,790	0	\$0
Total	18	\$5,223	1	\$104

*PSP – Project Selection Process

Regional Goods Movement Evaluation Status

- Online Questionnaire
 - Investment Category Focused Criteria
 - Benefits to Other Investment Categories
 - Planning Factors
- Can upload additional documents using upload link
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- RGM Questionnaire filled by *May 5, 2023*.

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Transportation Project Selection Process Questionnaire Portal

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Vishu Lingala
vishu.lingala@h-gac.com
713-993-4561

Regional Goods Movement Projects

Project ID	Agency	Project Title	Submitted?	View Questionnaire
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693	City of Galveston	Traffic Signal / Safety Improvements	No	Submit Questionnaire

Transportation Project Selection Process Questionnaire

Project Information

Project ID	Agency Name	Project Title
688	City of Galveston	Stewart Road - 61st to 75th Streets: Corridor Improvements

Investment Category-Focused Criteria

All fields are required.

1. Is the proposed project recommended in a statewide, regional, or local freight plan?

Please Select

Required

2. Is the proposed project located on a Critical Urban/Rural Freight corridor (CUFC/CRFC)?

Please Select

Required

3. What is the estimated percentage of daily truck volume on the existing project facility? H-GAC staff can provide assistance in gathering the truck data from our website.

Required

4. What is the estimated percentage of daily truck volume on the project facility after the proposed project implementation?

Required

5. Does the project facility provide new or improved connectivity to a port/airport?

Please Select

Required

6. Does the project facility provide new or improved connectivity to other freight generators?

Please Select

Required

7. Please provide a narrative explaining how the project improves regional goods movement within and through the region. In the narrative, please mention if the project scope includes grade separations at at-grade railroad crossings or implementation of ITS technologies.

600 Words or Less - Currently Words



View Your Projects

Transportation Project Search

Find a Transportation Project

Project Goal

- | | | |
|--|--|---|
| <input type="checkbox"/> Accessibility and Connectivity | <input type="checkbox"/> Conserve and Protect Natural and Cultural Resources | <input type="checkbox"/> Crash Reduction and Safety |
| <input type="checkbox"/> Delay Reduction and Congestion Relief | <input type="checkbox"/> Improved Freight Connectivity | <input type="checkbox"/> Resiliency/Flood Mitigation |
| <input type="checkbox"/> Safety Improvements | <input type="checkbox"/> State of Good Repair | <input type="checkbox"/> Strengthen Regional Economic Competitiveness |

Project Type

- | | | |
|--|--|--|
| <input type="checkbox"/> Access Management | <input type="checkbox"/> Added Capacity | <input type="checkbox"/> Bicycle Improvements |
| <input type="checkbox"/> Delay Reduction/Congestion Relief | <input type="checkbox"/> Delay Reduction/Congestion Relief | <input type="checkbox"/> Freight Movement |
| <input type="checkbox"/> Intersection Improvements | <input type="checkbox"/> Other | <input type="checkbox"/> Pedestrian Improvements |
| <input type="checkbox"/> Policy | <input type="checkbox"/> Safety Improvements | <input type="checkbox"/> Transit |

Investment Category

- | | | |
|--|---|---|
| <input type="checkbox"/> Regional Goods Movement | <input type="checkbox"/> Operational Improvements and Congestion Management | <input type="checkbox"/> High Growth Area Needs |
| <input type="checkbox"/> Active Transportation | <input type="checkbox"/> Transit | <input type="checkbox"/> Major Projects |
| <input type="checkbox"/> Resiliency and State of Good Repair | <input type="checkbox"/> Safety | |

Preferred or Requested Selection Outcome

- | | |
|---|--|
| <input type="checkbox"/> Construction | <input type="checkbox"/> Development Only |
| <input type="checkbox"/> Development and Construction | <input type="checkbox"/> Planning Activities |

Project Timeframe

Please Select ▼

Can the project be completed in the next three years?

Please Select ▼

Search

Mobility



Houston-Galveston
Area Council

Existing TPC Funding Guidance

Project Type	TPC Funding Guidance*	2018 Call for Projects
Mobility	75% - 82%	75%
Alternative Modes	9% - 13%	13%
Air Quality	9% - 13%	12%
Planning	<1%	<1%

Strategy	2018 Call for Projects Selection
Major Investments	25%
Expand	45%
Manage	14%
Maintain	8%
Active Transportation	7%

*TPC Funding guidance approved prior to 2015 Call for Projects

Draft Funding Instructions

Investment Category	Initial Recommendation	Percentage of Submitted Projects Cost ¹
Regional Goods Movement	12%	15%
Operational Improvements & Congestion Management	13%	30%
High-Growth Area Needs	25%	26%
Active Transportation	7.5%	12%
Transit	7.5%	15%
Major Projects	30%	24%
Resiliency & State of Good Repair	5%	13%
Safety **	<i>TBD; ~\$30M/year</i>	

¹Cost percentages are for projects that do not have an existing MPOID

Investment Categories

Investment Category	Description
Regional Goods Movement	Roadway projects that are located on highways classified as CUFC or CRFC or intermodal connectors; Projects proposed on roadways that provide connectivity to large warehouses, big box stores etc.; Projects located on facilities with high truck volumes
Operational Improvements & Congestion Management	Projects that reduce congestion and reduce travel delay (Including HOV expansions and BRT projects)
High-Growth Area Needs	Development of facilities that will avoid future congestion in high-growth areas; Projects that address safety, congestion, or multimodalism in high growth areas; Projects that promote coordinated planning in high growth areas and support continued economic development
Active Transportation	On and off-road bicycle & pedestrian projects that facilitate essential trip making including universal accessibility projects for transit
Transit	All transit projects (may include HOV expansions and BRT)
Major Projects	All projects with an estimated cost of \$100 million or more **
Resiliency & State of Good Repair	Projects focused on resiliency improvements and extending useful life of the facility (Details TBD pending full PROTECT guidance)
Safety **	Projects focused solely on safety improvements in high crash areas (details TBD pending recommendations of Safety Task Force)

Scoring Point Distribution

Scoring Factor	Investment Category					
	Regional Goods Movement	Operational Improvements	High-Growth Area Needs	Active Transportation	Transit	Resiliency & SOGR
Regional Goods Movement	50	4	3	3	3	5
Operational Improvements	6	50	4	4	3	5
High-Growth Area Needs	5	4	50	4	4	5
Active Transportation	2	3	4	50	5	5
Transit	3	4	5	5	50	5
Resiliency & State of Good Repair	4	5	4	4	5	50
Planning Factors	30	30	30	30	30	30
TOTAL POINTS	100	100	100	100	100	100

Planning Factors Point Distributions

Planning Factor	Investment Category					
	Regional Goods Movement	Operational Improvements	High-Growth Area Needs	Active Transportation	Transit	Resiliency & SOGR
Safety	7	7	7	7	7	7
Resiliency	5	5	5	5	5	5
Access/Connectivity	5	5	5	5	5	5
Environmental Justice	5	5	5	5	5	5
Impact on Cultural/Natural	5	5	5	5	5	5
Innovation	3	3	3	3	3	3
Planning Factors Total	30	30	30	30	30	30
TOTAL POINTS	100	100	100	100	100	100
Screening Factor						
Planning Coordination						

Operational Improvements & Congestion Management

Investment Category Focused Criteria	Max 50 Pts
Existing congestion (TTI) (Quantitative)	Up to 10 Pts
Improvement (TTI) (Quantitative)	Up to 20 Pts
Congestion management strategy narrative (Qualitative)	Up to 10 Pts
Project improves hurricane evacuation (Qualitative)	Up to 10 Pts

Operational Improvements & Congestion Management

Benefits to Other Investment Categories	Max 20 Pts
Narrative explaining how the proposed project will improve regional goods movement	Up to 4 Pts
Narrative explaining how the proposed project will benefit high growth area needs (Project addressing economic development, expansion of ports, new land-use development, etc)	Up to 4 Pts
Narrative explaining how the proposed project will improve walking and or biking conditions	Up to 3 Pts
Narrative explaining how the proposed project will improve traffic conditions for transit users	Up to 4 Pts
Narrative explaining how the proposed project will reduce inoperability for significant periods due to infrastructure damaged by collision with vehicles such as trucks, ships and barges. And Narrative explaining how the proposed project improves the state of good repair and extends the service life of the facility.	Up to 5 Pts

Planning Factors Scoring Elements

Planning Factor	Scoring Elements
Safety	<ul style="list-style-type: none">• Historic fatality and severe injury crash rates within a 0.1 mile buffer of the proposed project location (quantitative data)• Potential fatality and severe injury crash rates (quantitative data as well as qualitative (sponsor narrative))
Resiliency	<ul style="list-style-type: none">• Criticality of the street/highway facility where proposed project is located (high/medium/low score from the Regional Resiliency Tool as well as qualitative descriptions (sponsor narrative))• Vulnerability of proposed project location to flooding of street/highway facility (high/medium/low score from regional resiliency tool as well as qualitative descriptions (sponsor narrative))• Proposed reduction of vulnerability to flooding of the street/highway facility where proposed project is located (qualitative (sponsor narrative))
Access/Connectivity	<ul style="list-style-type: none">• Improvement to accessibility and connectivity of existing and planned land uses (as documented by official city or county future growth plans) to jobs, medical facilities, schools, colleges, and social services after the proposed project is implemented/constructed (quantitative as well as qualitative (sponsor narrative))• Improvements to accessibility and connectivity to low-income and minority households

Planning Factors Scoring Elements

Planning Factor	Scoring Elements
Environmental Justice	<ul style="list-style-type: none">• Number of low-income and minority households within a ¼ mile buffer of the project location (quantitative)• Sponsor narrative explaining how the proposed project provides benefits to vulnerable populations• Sponsor narrative explaining how the proposed project avoids or mitigates adverse effects to vulnerable populations
Impact on Cultural/Natural Resources	<ul style="list-style-type: none">• Potential NO_x (Nitrogen Oxides) and VOC (Volatile Organic Compounds) emissions reductions as a result of the proposed project (quantitative)• Sponsor narrative explaining how proposed project avoids or mitigates impacts to natural or cultural resources such as historical sites, archeological sites, flood plains, wetlands
Innovation	<ul style="list-style-type: none">• Implementation of new infrastructure or technologies intended to enhance accessibility, mobility, multimodalism, resiliency, or reliability, or traffic operations. Installation of new technology such as autonomous/connected vehicle technology

Next Steps

- Develop/Approve Funding Instructions – May 2023
- Regional Goods Movement (RGM) Scoring Criteria Published – April 2023
- Initiate RGM Selection Process – April
- Initiate RGM Projects Scoring– May/June
- Initiate RGM Projects Benefits Calculation templates – June/July
- Initiate RMG Project Readiness – July/August
- Operational Improvements & Congestion Management Scoring Criteria Published – May 2023

Discussion & Contact Information

Vishu Lingala
Principal Planner

Vishu.Lingala@h-gac.com

713.993.4561

Adam Beckom, AICP
Program Manager

Adam.Beckom@h-gac.com

713.993.4567



Project Selection Process



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April 19, 2023

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Project Type

- | | | |
|--|--|--|
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| <input type="checkbox"/> Delay Reduction/Congestion Relief | <input type="checkbox"/> Delay Reduction/Congestion Relief | <input type="checkbox"/> Freight Movement |
| <input type="checkbox"/> Intersection Improvements | <input type="checkbox"/> Other | <input type="checkbox"/> Pedestrian Improvements |
| <input type="checkbox"/> Policy | <input type="checkbox"/> Safety Improvements | <input type="checkbox"/> Transit |

Investment Category

- | | | |
|--|---|---|
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- | | |
|---|--|
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| <input type="checkbox"/> Development and Construction | <input type="checkbox"/> Planning Activities |

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Active Transportation	7%

*TPC Funding guidance approved prior to 2015 Call for Projects

Funding Instruction Alternatives

Investment Category	Initial Recommendation	Percentage of Submitted Projects Cost (New Projects) ¹		Potential Revised Instruction
Regional Goods Movement	12%	15%	<i>11%</i>	11%
Operational Improvements & Congestion Management	13%	30%	<i>22%</i>	16%
High-Growth Area Needs	25%	26%	<i>19%</i>	25%
Active Transportation	7.5%	12%	<i>9%</i>	7.5%
Transit	7.5%	15%	<i>11%</i>	7.5%
Major Projects	30%	24%	<i>18%</i>	25%
Resiliency & State of Good Repair	5%	13%	<i>10%</i>	8%
Safety **	<i>TBD; ~\$30M/year</i>			

¹First column shows raw percentages (total 135%); second column (italics) is normalized to total 100%

Investment Categories

Investment Category	Description
Regional Goods Movement	Roadway projects that are located on highways classified as CUFC or CRFC or intermodal connectors; Projects proposed on roadways that provide connectivity to large warehouses, big box stores etc.; Projects located on facilities with high truck volumes
Operational Improvements & Congestion Management	Projects that reduce congestion and reduce travel delay (Including HOV expansions and BRT projects)
High-Growth Area Needs	Development of facilities that will avoid future congestion in high-growth areas; Projects that address safety, congestion, or multimodalism in high growth areas; Projects that promote coordinated planning in high growth areas and support continued economic development
Active Transportation	On and off-road bicycle & pedestrian projects that facilitate essential trip making including universal accessibility projects for transit
Transit	All transit projects (may include HOV expansions and BRT)
Major Projects	All projects with an estimated cost of \$100 million or more **
Resiliency & State of Good Repair	Projects focused on resiliency improvements and extending useful life of the facility (Details TBD pending full PROTECT guidance)
Safety **	Projects focused solely on safety improvements in high crash areas (details TBD pending recommendations of Safety Task Force)

Scoring Point Distribution

Scoring Factor	Investment Category					
	Regional Goods Movement	Operational Improvements	High-Growth Area Needs	Active Transportation	Transit	Resiliency & SOGR
Regional Goods Movement	50	4	3	3	3	5
Operational Improvements	6	50	4	4	3	5
High-Growth Area Needs	5	4	50	4	4	5
Active Transportation	2	3	4	50	5	5
Transit	3	4	5	5	50	5
Resiliency & State of Good Repair	4	5	4	4	5	50
Planning Factors	30	30	30	30	30	30
TOTAL POINTS	100	100	100	100	100	100

Planning Factors Point Distributions

Planning Factor	Investment Category					
	Regional Goods Movement	Operational Improvements	High-Growth Area Needs	Active Transportation	Transit	Resiliency & SOGR
Safety	7	7	7	7	7	7
Resiliency	5	5	5	5	5	5
Access/Connectivity	5	5	5	5	5	5
Environmental Justice	5	5	5	5	5	5
Impact on Cultural/Natural	5	5	5	5	5	5
Innovation	3	3	3	3	3	3
Planning Factors Total	30	30	30	30	30	30
TOTAL POINTS	100	100	100	100	100	100
Screening Factor						
Planning Coordination						

Operational Improvements & Congestion Management

Investment Category Focused Criteria	Max 50 Pts
Existing congestion (TTI) (Quantitative)	Up to 10 Pts
Improvement (TTI) (Quantitative)	Up to 20 Pts
Congestion management strategy narrative (Qualitative)	Up to 10 Pts
Project improves hurricane evacuation (Qualitative)	Up to 10 Pts

Operational Improvements & Congestion Management

Benefits to Other Investment Categories	Max 20 Pts
Narrative explaining how the proposed project will improve regional goods movement	Up to 4 Pts
Narrative explaining how the proposed project will benefit high growth area needs (Project addressing economic development, expansion of ports, new land-use development, etc)	Up to 4 Pts
Narrative explaining how the proposed project will improve walking and or biking conditions	Up to 3 Pts
Narrative explaining how the proposed project will improve traffic conditions for transit users	Up to 4 Pts
Narrative explaining how the proposed project will reduce inoperability for significant periods due to infrastructure damaged by collision with vehicles such as trucks, ships and barges. And Narrative explaining how the proposed project improves the state of good repair and extends the service life of the facility.	Up to 5 Pts

Planning Factors Scoring Elements

Planning Factor	Scoring Elements
Safety	<ul style="list-style-type: none">• Historic fatality and severe injury crash rates within a 0.1 mile buffer of the proposed project location (quantitative data)• Potential fatality and severe injury crash rates (quantitative data as well as qualitative (sponsor narrative))
Resiliency	<ul style="list-style-type: none">• Criticality of the street/highway facility where proposed project is located (high/medium/low score from the Regional Resiliency Tool as well as qualitative descriptions (sponsor narrative))• Vulnerability of proposed project location to flooding of street/highway facility (high/medium/low score from regional resiliency tool as well as qualitative descriptions (sponsor narrative))• Proposed reduction of vulnerability to flooding of the street/highway facility where proposed project is located (qualitative (sponsor narrative))
Access/Connectivity	<ul style="list-style-type: none">• Improvement to accessibility and connectivity of existing and planned land uses (as documented by official city or county future growth plans) to jobs, medical facilities, schools, colleges, and social services after the proposed project is implemented/constructed (quantitative as well as qualitative (sponsor narrative))• Improvements to accessibility and connectivity to low-income and minority households

Planning Factors Scoring Elements

Planning Factor	Scoring Elements
Environmental Justice	<ul style="list-style-type: none">• Number of low-income and minority households within a ¼ mile buffer of the project location (quantitative)• Sponsor narrative explaining how the proposed project provides benefits to vulnerable populations• Sponsor narrative explaining how the proposed project avoids or mitigates adverse effects to vulnerable populations
Impact on Cultural/Natural Resources	<ul style="list-style-type: none">• Potential NOx (Nitrogen Oxides) and VOC (Volatile Organic Compounds) emissions reductions as a result of the proposed project (quantitative)• Sponsor narrative explaining how proposed project avoids or mitigates impacts to natural or cultural resources such as historical sites, archeological sites, flood plains, wetlands
Innovation	<ul style="list-style-type: none">• Implementation of new infrastructure or technologies intended to enhance accessibility, mobility, multimodalism, resiliency, or reliability, or traffic operations. Installation of new technology such as autonomous/connected vehicle technology

Next Steps

- Develop/Approve Overall Funding Instructions – May
- Regional Goods Movement (RGM)
 - RGM Scoring Criteria Published – April
 - Initiate RGM Selection Process – April
 - Initiate RGM Projects Scoring – May
 - Initiate RGM Projects Benefits Calculation templates – June
 - Initiate RGM Project Readiness Assessments – June
 - Complete RGM Project Lists – August
- Operational Improvements & Congestion Management Scoring Criteria Published – May

Discussion & Contact Information

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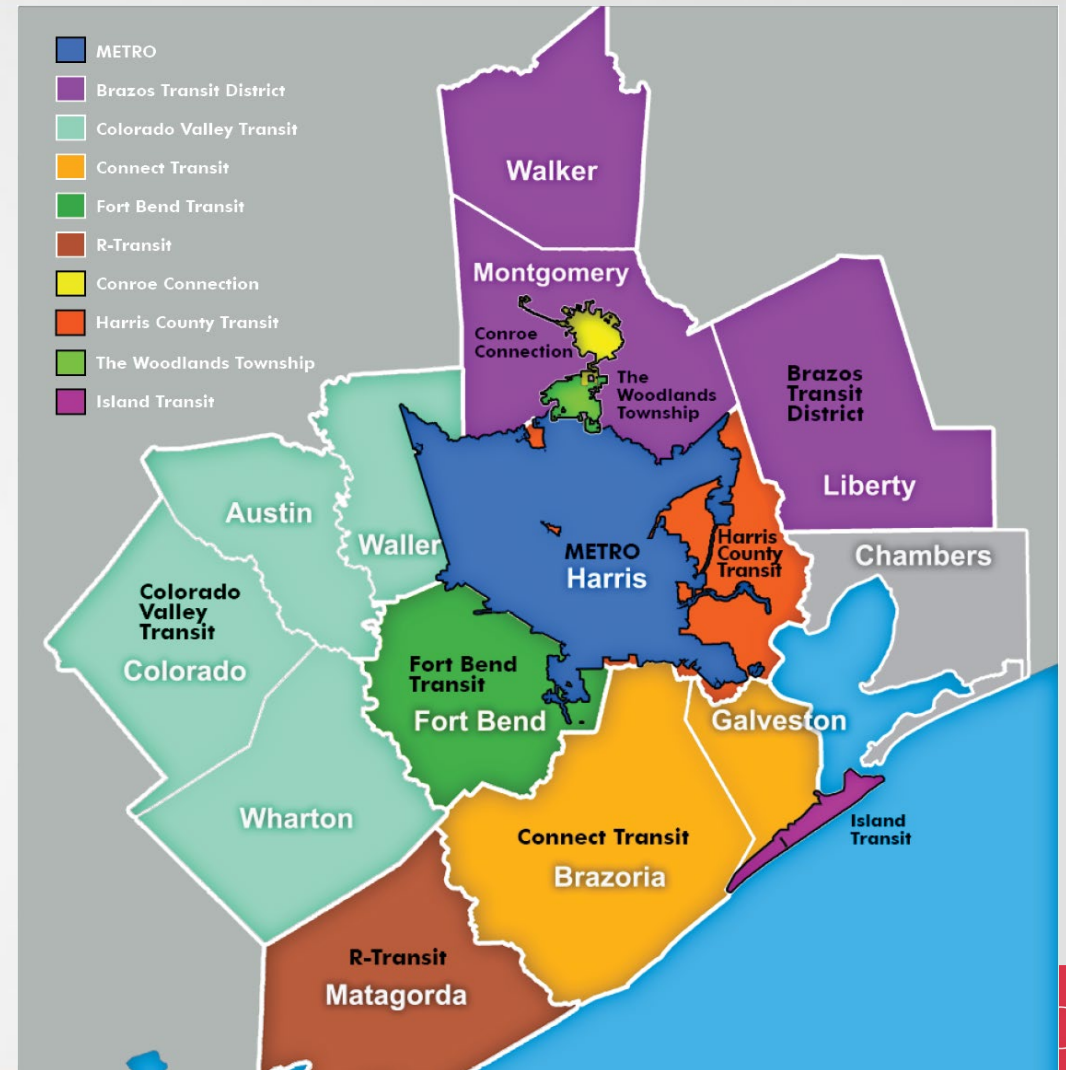
Item 10: Regional Transit Connectivity Program Update



Transportation Advisory Committee
April 2023

Background and Purpose

- The Regional Transit Connectivity (Regional Fares) Program will create a seamless way to plan and pay for transit trips throughout the region.
- Reducing barriers to using transit will provide a variety of benefits for the region:
 - Increased ridership
 - Decreased emissions
 - Congestion reduction
 - Reduced bus dwell time



Regional Assessments

■ Key Takeaways:

- All agencies expressed interest in a regional fare program, pending funding availability
- Fare structures are flat fares and could be easily supported by agency fare products and regional fare products
- Partners would require infrastructure to support new fare devices as well as funding support for purchase, installation, and maintenance of devices
- Recommend implementing in Phases

Phase I

- Request funds programmed into TIP from TAC/TPC.
- Execute ILAs with Transit Agencies.
- Implement regional backbone:
 - Data management system
 - Automated fare collection system
 - Mobile ticketing system
 - Validators on vehicles
 - Fare Policy

Note: Future phases could include ticket vending machines and advanced fareboxes

Questions?



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Item 11. Safety Performance Measures



Background

- H-GAC has an Aspirational goal of Vision Zero 2050
- Vision Zero Resolution by TPC in October 2020
- H-GAC Supports the States Safety Performance Measures and Targets.



Safety Performance Measures

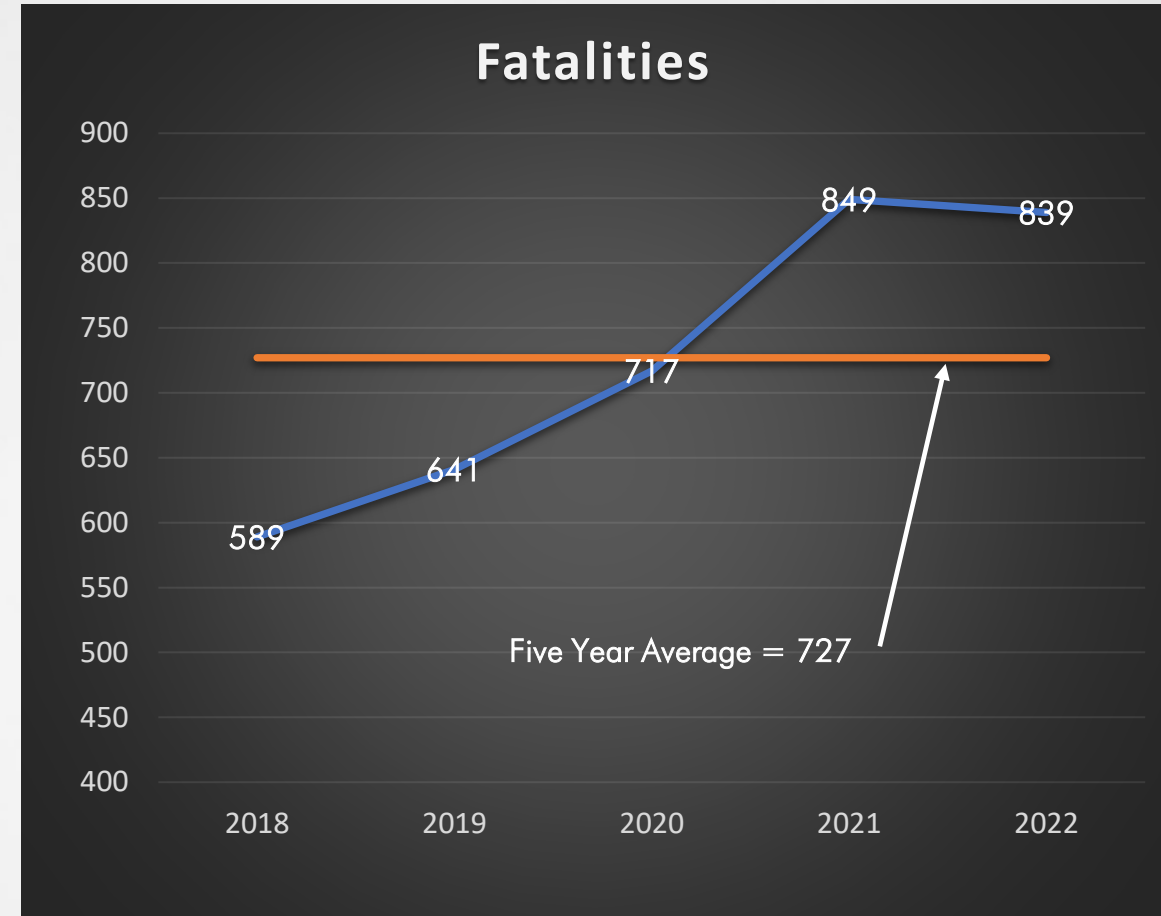


- Number of Fatalities
- Number of Serious Injuries
- Rate of Fatal Injuries per 100 Million Vehicle Miles Traveled
- Rate of Serious Injuries per 100 Million Vehicle Miles Traveled
- Number of Non-motorized Fatal Injuries and Serious Injuries

Fatalities



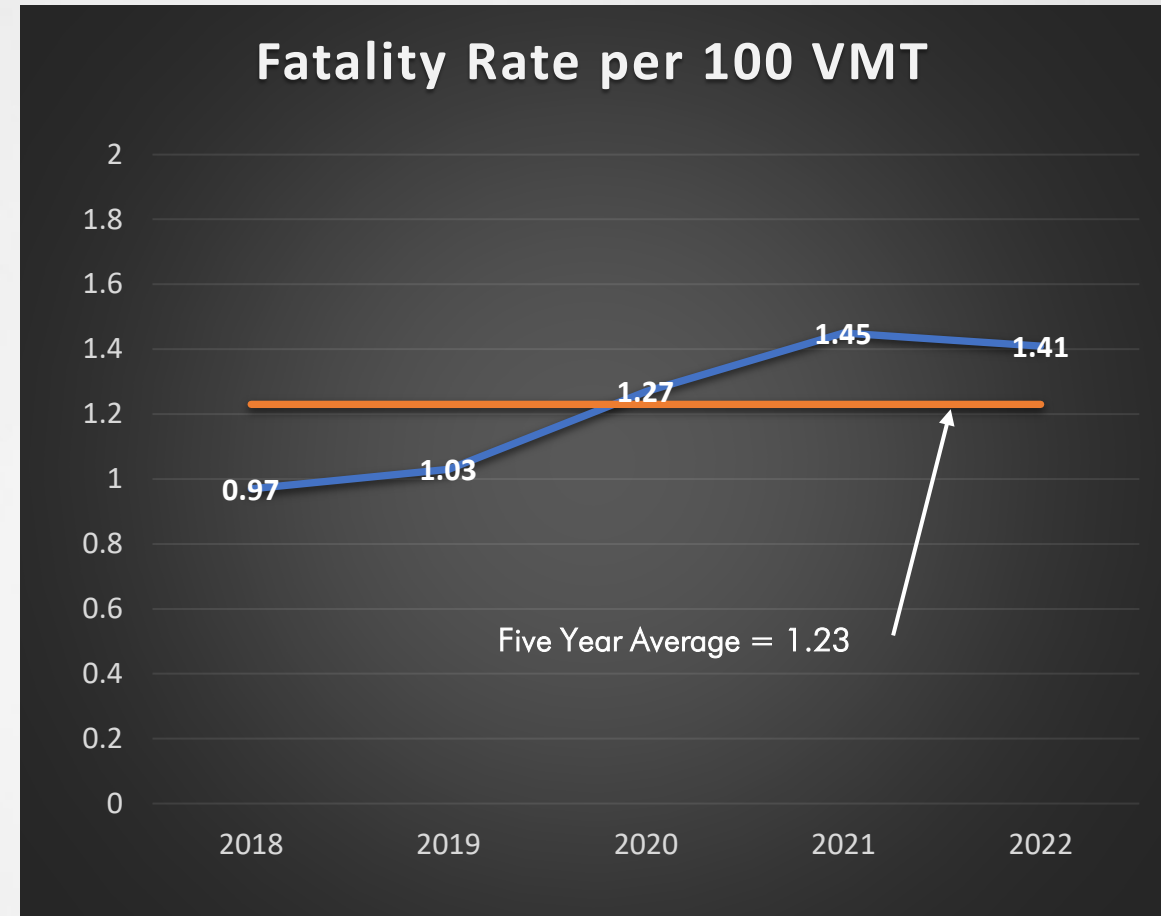
Year	Count	Source
2018	589	FARS
2019	641	FARS
2020	717	FARS
2021	849	CRIS
2022	839	CRIS
5 Year Average	727	



Fatalities Per 100 Million Vehicle Miles Traveled



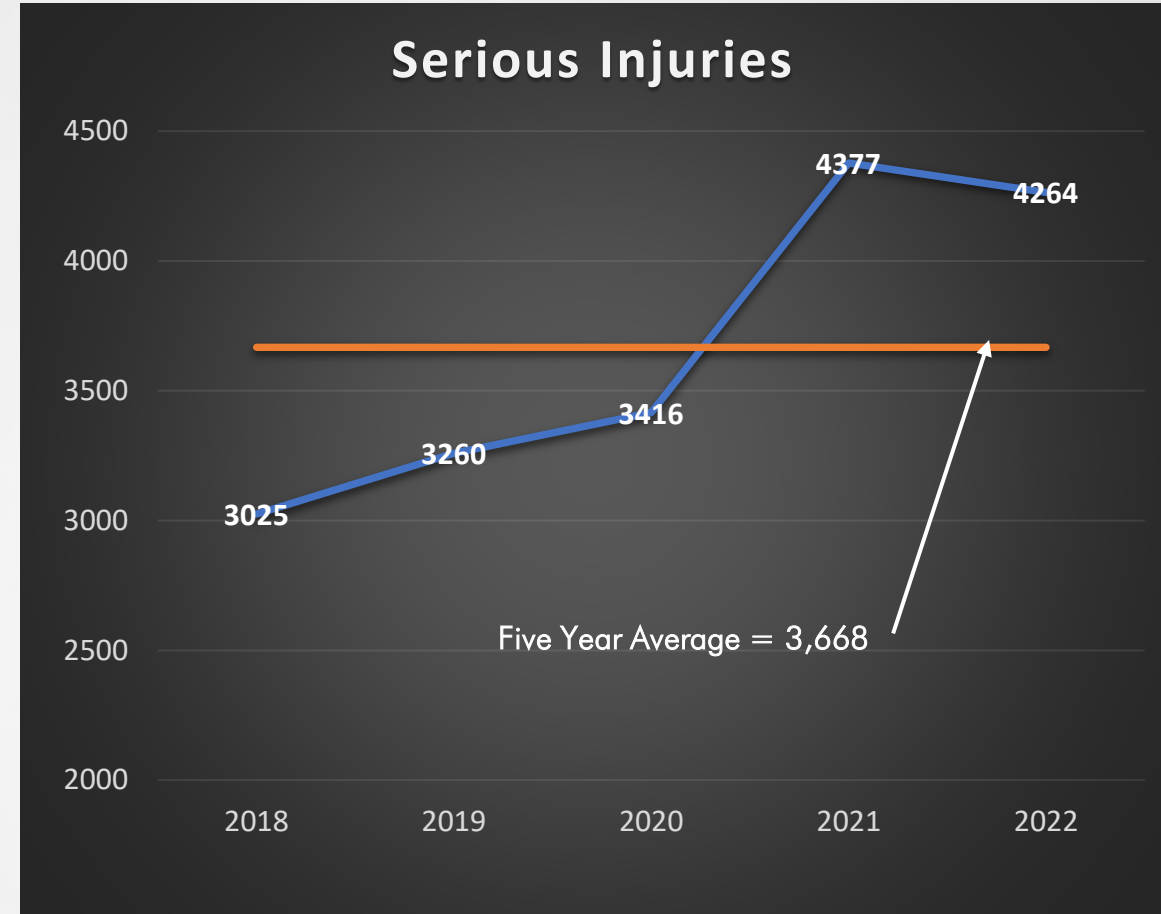
Year	Count	Source
2018	0.97	CRIS
2019	1.03	CRIS
2020	1.27	CRIS
2021	1.45	CRIS
2022	1.41	CRIS
5 Year Average	1.23	



Serious Injuries



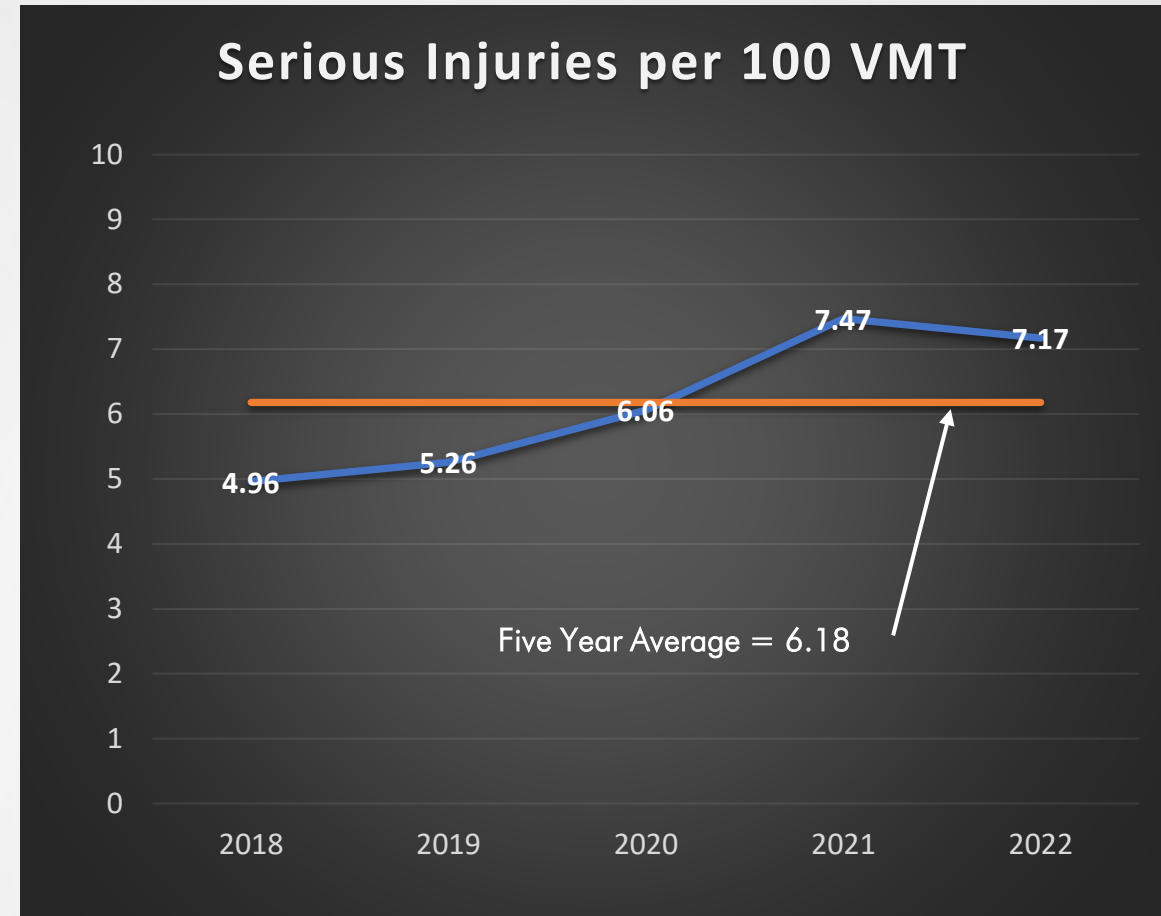
Year	Count	Source
2018	3,025	CRIS
2019	3,260	CRIS
2020	3,416	CRIS
2021	4,377	CRIS
2022	4,264	CRIS
5 Year Average	3,668	



Serious Injuries Per 100 Million Vehicle Miles Traveled



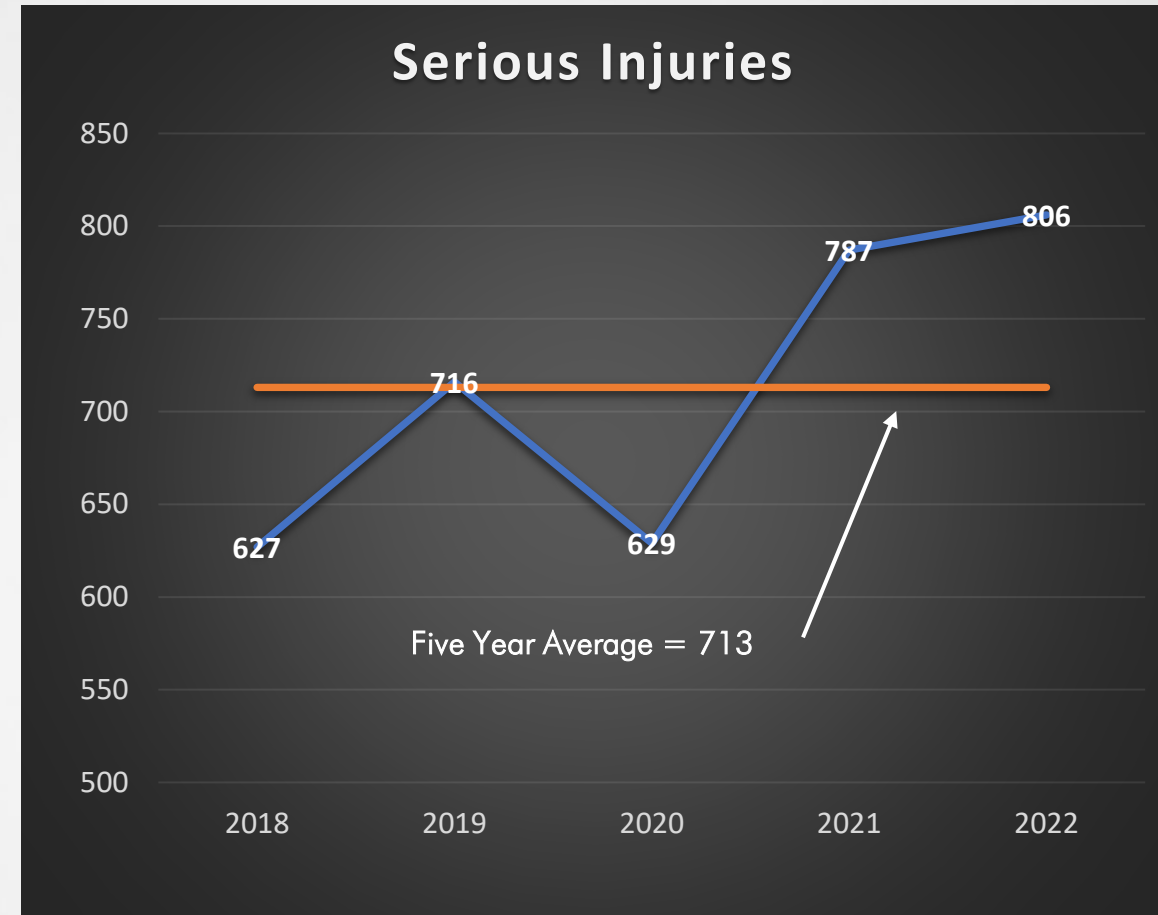
Year	Count	Source
2018	4.96	CRIS
2019	5.26	CRIS
2020	6.06	CRIS
2021	7.47	CRIS
2022	7.17	CRIS
5 Year Average	6.18	



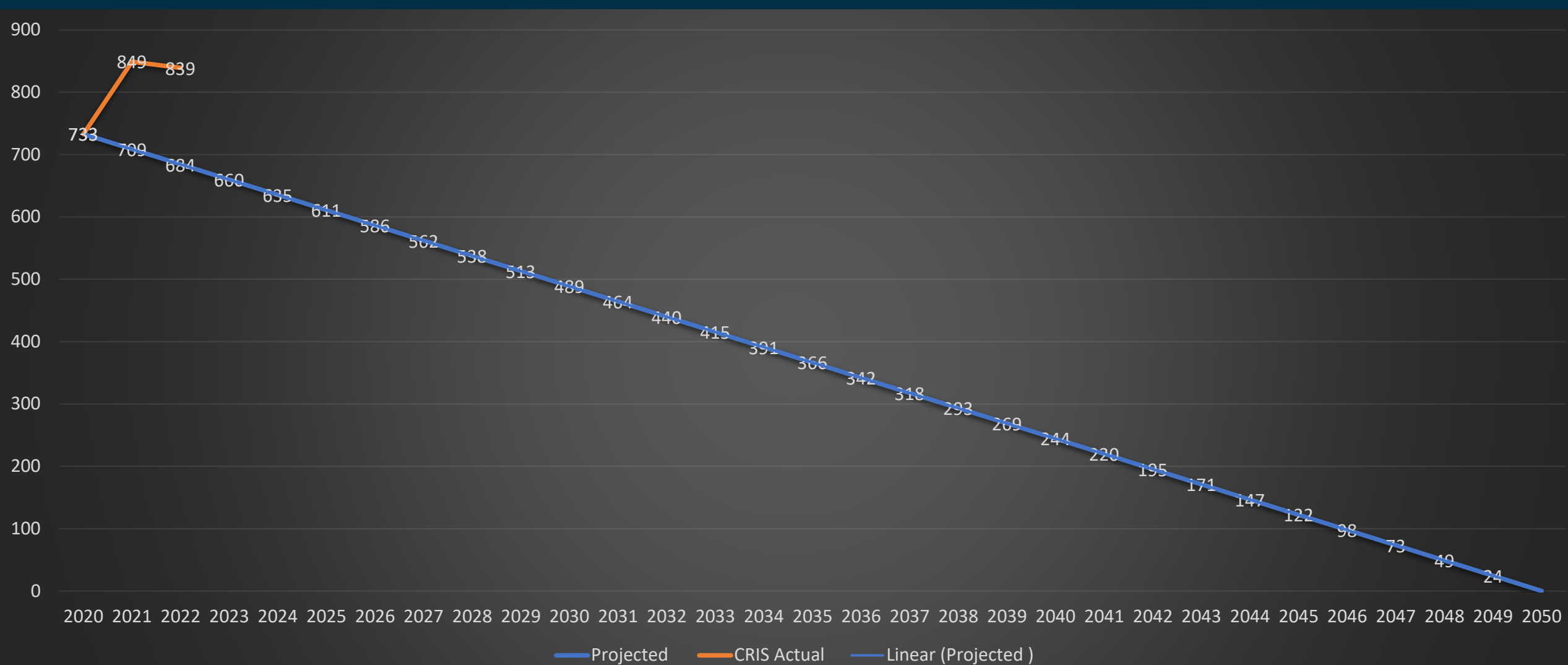
Total Non-motorized Fatalities and Serious Injuries



Year	Count	Source
2018	627	FARS-CRIS
2019	716	FARS-CRIS
2020	629	FARS-CRIS
2021	787	CRIS
2022	806	CRIS
5 Year Average	713	



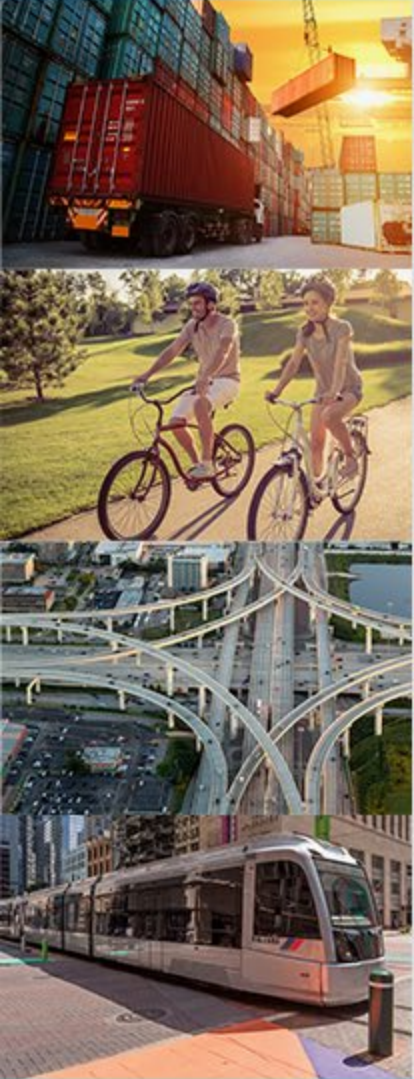
Vision Zero Aspirational Goal



Vision Zero Aspirational Goal



Safety Initiatives



- Traffic Safety Campaign
 - Don't Pay the Price
- Teens in the Drivers Seat
- Bike and Pedestrian Program
- Child Car Seat Program
- Tow and Go™ Program
- Safety Intersection Audits
- Traffic Incident Management Meetings

Safety Initiatives

- **Safety Task Force**
 - Members from TPC, TAC, Safety Committee
 - Purpose:
 - Examine data and trends
 - Identify issues
 - Recommend performance targets
 - Consider aggressive and innovative solutions
- **Safe Streets For All (SS4A) Action Plan Grant**

Questions?



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Item 12. Future Amendments to the 2023-2026 TIP and 2045 RTP



Transportation Advisory Committee
April 19, 2023

Future TIP and RTP Amendments

- Add \$11.2M Local funding to Lake Houston Redevelopment Authority Northpark Drive widening (MPO ID 87) to cover inflation, a RR agreement and ROW (+\$11.2M; \$76.2M)
- Add \$500K Local funding to Harris County Bourgeois Road widening (MPO ID 8067) to cover inflation (+\$500K; \$10.5M)
- Add \$1.0M Local funding to City of Sugar Land University Blvd widening (MPO ID 11196) to cover inflation (+\$1.0M; \$3.5M)
- Reduce Local funding \$565.0M on METRO University Line Bus Rapid Transit (MPO ID 18176) based on 15% Design estimates (-\$565.0M; \$1.6B)

Future TIP and RTP Amendments

- Delay City of Missouri City locally funded Trammel-Fresno Road widening (MPO ID 656) to FY 2024 due to ROW and bond finance issues. (Total: \$3.0M)
- Delay City of Missouri City locally funded Watts Plantation Road extension (MPO ID 13736) to FY 2025 to coordinate funding with Fort Bend County. (Total: \$3.0M)
- Delay Fort Bend County locally funded Westpark Tollway Park & Ride vehicle acquisition (MPO ID 11533) to FY 2024 to coordinate with facility construction. (Total: \$42.9M)
- Delay City of League City STBG funded Landing Blvd/NASA Road 1 construction (MPO ID 17080) to FY 2024 due to environmental, ROW and utilities issues. (Total: \$63.8M)

Future TIP and RTP Amendments

- Delay Midtown Management District STBG funded Brazos Street transit infrastructure project (MPO ID 17092) to FY 2024 to allow for City of Houston design review. (Total: \$5.1M)

Delays to Ten-Year Plan and RTP

- Delay Harris County locally funded Underwood Road construction (MPO ID 147) to FY 2032 due to project priority. (Total: \$4.8M)
- Delay Harris County locally funded Katy-Hockley Cutoff widening (MPO ID 7474) to FY 2032 due to project priority. (Total: \$60.0M)
- Delay City of Pearland locally funded O'Day Road widening (MPO ID 11655) to FY 2028 due to project priority. (Total: \$20.7M)
- Delay TxDOT Houston District unfunded US 90 reconstruction (MPO ID 18403) to FY 2027 with new scope of work. (TPC: \$5.5M)

Future TIP and RTP Amendments

- **Cancel Harris County locally funded projects:**
 1. Park Row Blvd widening (MPO ID 7762) (-\$1.3M)
 2. Carpenter Bayou Trail construction (MPO ID 7770) (-\$1.3M)
 3. Cypress N Houston Road construction (MPO ID 8011) (-\$2.0M)
 4. North Diamondhead Blvd widening (MPO ID 8047) (-\$1.1M)
 5. Fry Road/Cypress Hill Road ITS installation (MPO ID 18062) (-\$1.2M)
 6. Hamblen Road widening (MPO ID 18317) (-\$24.8M)

Action

- Information and discussion only