TRANSPORTATION IMPROVEMENT PROGRAM





The 2023-2026 Transportation Improvement Program (TIP) is a multimodal program of transportation infrastructure and service improvements planned for implementation in the Houston Region over the next four years.

MAY 2022

2023 -2026 TRANSPORTION IMPROVEMENT PROGRAM (TIP)

FOR THE HOUSTON-GALVESTON METROPOLITAN PLANNING AREA

PUBLIC COMMENT PERIOD: March 4 – April 4, 2022

PUBLIC MEETING DATE: March 22, 2022

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The TIP is developed in accordance with the metropolitan planning requirements set forth in the Statewide and Metropolitan Planning Final Rule (23 CFR Part 450, 49 CFR Part 613) promulgated in the May 26, 2016 Federal Register, as required by the "Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users" (SAFETEA-LU) Act and reaffirmed by both the "Moving Ahead for Progress in the 21st Century" (MAP-21) Act, and the "Fixing America's Surface Transportation" (FAST) Act, and the current transportation authorization, the "Investment Investment and Jobs Act" (IIJA).

Prepared in cooperation with the Texas Department of Transportation and the U. S. Department of Transportation, Federal Highway Administration, and Federal Transit Administration.

The contents of this report reflect the views of the authors who are solely responsible for the opinions, findings, and conclusions presented therein. The contents of the report do not necessarily reflect the views or policies of the U.S. Department of Transportation, Federal Highway Administration, the Federal Transit Administration, or the Texas Department of Transportation.



ution 20 NO. 2022-20

APPROVING THE 2023-2026 TRANSPORTATION IMPROVEMENT PROGRAM FOR THE HOUSTON-GALVESTON TRANSPORTATION MANAGEMENT AREA:

WHEREAS, the Fixing America's Surface Transportation Act (FAST Act) was enacted on December 4, 2015 and authorizes the Federal surface transportation programs for highways, safety, and transit; and

WHEREAS, the FAST Act and Code of Federal Regulations establish requirements for the metropolitan transportation planning process, including the development of Transportation Improvement Programs (TIPs); and

WHEREAS, the Transportation Policy Council (TPC) as the Policy Board for the Metropolitan Planning Organization (MPO), has adopted policies and procedures for the selection and prioritization of projects consistent with federal planning requirements; and

WHEREAS, the 2023-2026 Transportation Improvement Program was developed in cooperation with the state and local governments, and local transit providers; and

WHEREAS, opportunity for public comment has been provided per the policies established by the *Public Participation Plan* amended by the Transportation Policy Council in January 2021; and

WHEREAS, the 2023-2026 Transportation Improvement Program includes statewide project groupings developed in accordance with the Metropolitan Planning regulations and in cooperation with the Texas Department of Transportation; and

WHEREAS, the 2023-2026 Transportation Improvement Program includes a financial summary that demonstrates its compliance with federal regulations regarding financial constraint; and

WHEREAS, the 2045 Regional Transportation Plan, the long-range transportation plan for the Houston-Galveston Transportation Management Area, was adopted in May 2019 by the Transportation Policy Council; and

WHEREAS, the 2023-2026 Transportation Improvement Program was developed from, and is consistent with the 2045 Regional Transportation Plan, as amended, and its air quality conformity determination received Federal Highway Administration concurrence in August 2019.

NOW, THEREFORE, BE IT RESOLVED BY THE TRANSPORTATION POLICY COUNCIL FOR THE HOUSTON-GALVESTON TRANSPORTATION MANAGEMENT AREA, THAT THE 2023-2026 TRANSPORTATION IMPROVEMENT PROGRAM IS HEREBY APPROVED, AND THE MPO DIRECTOR IS DIRECTED TO SUBMIT THE TIP TO THE TEXAS DEPARTMENT OF TRANSPORTATION FOR INCLUSION IN THE 2021-2024 STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM.

PASSED AND APPROVED this 20th day of May 2022, at a regularly called meeting of the Transportation Policy Council.

APPROVED:

David W. Robinson David W. Robinson (May 24, 2022 16:27 CDT)

Hon. David Robinson, Chairman Transportation Policy Council

David W. Robinson E-signed 2022-05-24 04:27PM CDT david.robinson@houstontx.gov ATTEST:

Never arnold

Hon. Nancy Arnold, Secretary Transportation Policy Council

Nancy Arnold E-signed 2022-05-24 04:31PM CDT arnoldn@msn.com

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Chapter I Introduction

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Chapter I — Introduction

PURPOSE OF THE TRANSPORTATION IMPROVEMENT PROGRAM (TIP)

The Transportation Improvement Program (TIP) is a staged, four-year program of surface transportation projects that are either proposed for federal funding or for which federal approval is required, along with the list of regionally significant projects to be implemented with nonfederal funds. The TIP is mandated by federal transportation legislation, currently the "Fixing America's Surface Transportation" (FAST) Act, and provides assurance that the federally supported transportation system is being adequately operated and maintained nationwide. Inclusion in the TIP is a major milestone in the project development process as it indicates there is regional consensus on the value of a project and approval for it to receive federal funding. Although the TIP covers four years of project programming, the schedule of projects is updated every two years, in coordination with the federal fiscal calendar.

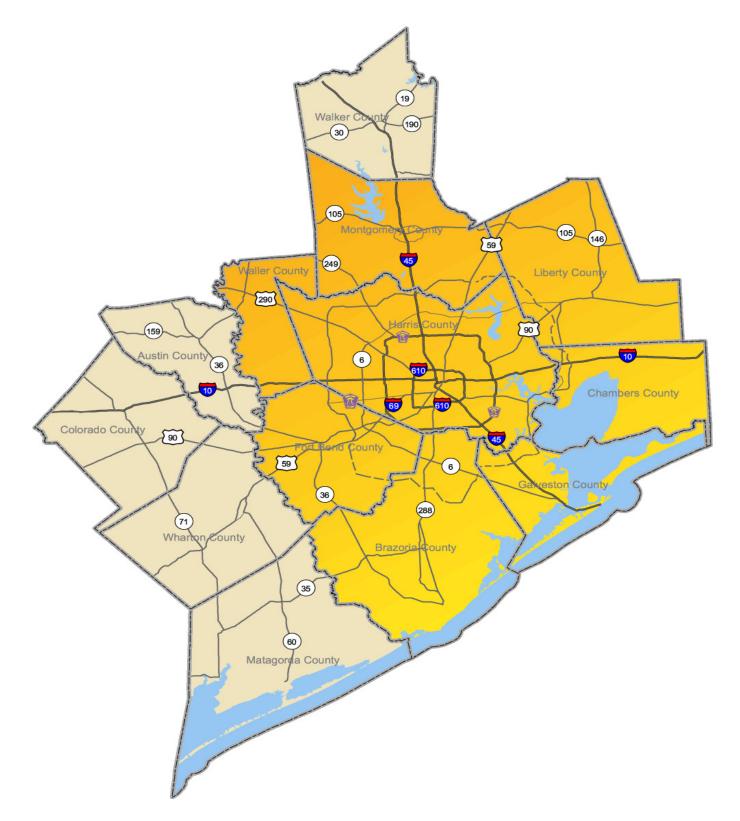
The TIP contains a detailed description of every included project, documents the costs at each project phase, and is financially constrained for each program year. Since it is designed to implement the goals, strategies, and priorities of the approved long-range transportation plan, the TIP must be consistent with the RTP. Moreover, when a planning region is designated a "non-attainment" or a "maintenance" area under the federal air quality standards, the TIP must meet the requirements of the



Clean Air Act by conforming to the State Implementation Plan (SIP) to reduce pollution.

Inclusion within the TIP document is however not a guarantee that a project will be implemented because unanticipated obstacles sometimes affect funding, impact project readiness, or upset sponsorship arrangements. Again, the TIP is not a final project implementation schedule as federal regulations permit amendments to the document after it has been adopted in order to add new projects, delete dormant projects, or to advance or delay projects in the schedule as circumstances necessitate.

The 2023 - 2026 TIP was developed by the Houston-Galveston Area Council (H-GAC) in cooperation with the Texas Department of Transportation (TxDOT), local government entities, and local transportation agencies. The multi-year/multimodal project list is the product of a comprehensive, cooperative, and continuing regional transportation planning process and consists of projects identified as priorities for the Houston-Galveston metropolitan region.



Map 1-1: H-GAC Region showing the Eight TMA Counties

THE PLANNING REGION

Federal law requires the states to establish a Metropolitan Planning Organization (MPO) for urbanized areas that have 50,000 or more residents. In 1974, the Houston-Galveston Area Council (H-GAC) was designated MPO for the eight-county planning region that consists of Brazoria, Chambers, Fort Bend, Galveston, Harris, Liberty, Montgomery, and Waller Counties; covering an area of approximately 8,800 square miles, an area slightly larger than the State of New Jersey (Map 1.1). As MPO, H-GAC coordinates the transportation planning activities within the region and decides how federal transportation dollars are spent.

The U.S. Secretary of Transportation has also designated the H-GAC eight-county planning region a Transportation Management Area (TMA). To qualify for designation as a TMA, an urbanized area must have a population of 200,000 or more residents (Figure 1-1). The H-GAC TMA boundary is identical to the limits of the MPO. This region is home to an ethnically diverse population of over 6.9 million residents and consistently ranks as one of the fastest growing regions within the nation. Population growth is driven by a robust rate of natural increase coupled with a positive net migration. These two factors have contributed to a population increase of over one million residents in the area since the year 2010. Although the rate of population growth has dipped in the recent years, especially within Harris County, the region's overall population is still increasing at the rate of about 90,000 new residents per annum.

Like the population, the mobility needs within the planning region are vast and diverse. The funding commitments documented in the 2023 - 2026 TIP respond to the regional aspiration for a safe, efficient, and reliable multimodal transportation system for its residents.

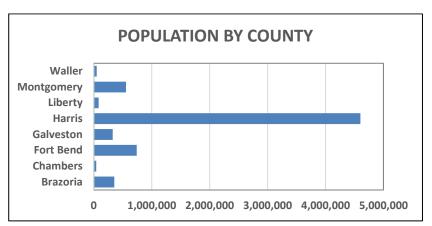
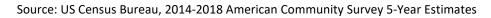


Figure 1-1: Population Distribution in the H-GAC TMA



RELATIONSHIP TO THE TRANSPORTATION PLANNING PROCESS

Serving as the MPO for the Houston-Galveston planning region, H-GAC is responsible for preparing and maintaining three key elements of the regional transportation planning program: (1) The Regional Transportation Plan (RTP), (2) the MPO Ten Year Plan, and (3) the Transportation Improvement Program (TIP). These three programs correspond respectively to the long-term regional planning vision, the intermediate-term planning guide, and the detailed short-term transportation programming schedule. Federal regulations moreover require the TMA to implement a Congestion Management Process (CMP) in conjunction with their transportation planning activities. Because the Environmental Protection Agency (EPA) has designated the Houston-Galveston-Brazoria (HGB) area a nonattainment area for the pollutant Ozone under the National Ambient Air Quality Standards (NAAQS), the MPO must coordinate its transportation planning process with the process of developing transportation control measures designed to bring the region into attainment.

The 2023 - 2026 TIP maintains consistency with the following transportation planning documents:

- 2045 RTP The H-GAC long-range Regional Transportation Plan
- H-GAC Ten-Year Plan
- TxDOT Unified Transportation Program (UTP)
- TxDOT Statewide Transportation Improvement Plan (STIP)

These planning documents and programs are briefly described below.

THE 2045 RTP

The long-range transportation plan "2045 RTP" is the defining expression of the regional vision for the future transportation system for the Houston-Galveston metropolitan area and serves as a guide for the expenditure of state and federal funds through the year 2045. The 2045 RTP is the product of a cooperative effort between H-GAC, local governments, TXDOT, transit operators, representatives of transportation providers, and the general public, and is required to be updated at least once every four years. Considering that the TIP is meant to implement the goals, strategies, and priorities expressed in the long-range plan, the project programming in the TIP is consistent with the first four years of the 2045 RTP.

The long-range plan evaluates the existing transportation system and defines a set of regional goals to improve the system and implementation strategies for achieving the goals. The 2045 RTP vision statement articulates an aspiration for an integrated multimodal transportation system that promotes a desirable quality of life and enhances the regional economic vitality while improving safety, accessibility, and mobility. In developing the 2045 RTP, H-GAC hosted over 20 public meetings and open house events, providing interested stakeholders with an opportunity to

participate in the plan development process. Over 1,000 public comments were received over the course of the public outreach effort. These comments helped to inform the decisions that shaped the final plan. The 2045 RTP was approved and adopted by the H-GAC Transportation Policy Council (TPC) on May 24, 2019. The next RTP plan update is due sometime in 2025.

THE MPO 10-YEAR PLAN

H-GAC has developed a 10-year Transportation Plan as directed by House Bill 20 (HB 20) which was passed by the 84th Texas legislature in 2015. HB 20 requires the MPO 10-year plan to specify how the transportation funding allocated to the Metropolitan Planning Area would be utilized. The 10-year transportation plan is consistent with and prioritizes projects from the regional transportation plan while the first 4 years of the plan must be consistent with the Statewide Transportation Improvement Program (STIP) and the H-GAC TIP. As directed by HB 20, the 10-year plan must consider and address congestion, safety, the effect of a project on economic development opportunities for area residents, available funding, air quality, and the project's impact on the underserved communities.

TXDOT UNIFIED TRANSPORTATION PROGRAM (UTP)

The Unified Transportation Program (UTP) is TxDOT's 10-year planning document and guides the planning, development, and construction of a multimodal list of transportation projects that involve the highways, aviation, public transportation and the waterways and coastal waters within each TxDOT district. The Houston-Galveston metropolitan region includes territory from two TxDOT district offices – Houston and Beaumont. The UTP is developed annually in accordance with the Texas Administrative Code (TAC § 16.105) and is used as a guideline for programming projects in the Statewide Transportation Improvement Program (STIP). In developing the UTP, TxDOT collaborates with local governments, local transportation entities and public transportation

operators. The UTP is approved by the Texas Transportation Commission. Projects in the UTP have Commission authorization for preliminary engineering work, environmental analysis, right of way acquisition, and design.

The UTP is an intermediate programming document that links the planning activities of the Statewide Long-Range Transportation Plan (SLRTP) and Metropolitan Transportation Plans with the detailed programming activities of the STIP and TxDOT's two-year letting schedule. Figure 1-2 portrays the hierarchy of regionwide transportation plan documents and shows how they relate to one another.

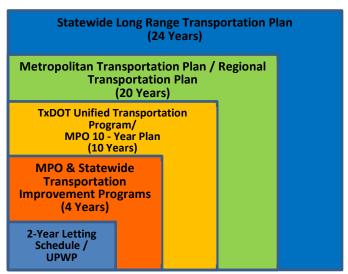


Figure 1-2: The Hierarchy of Transportation Plans

State regulations require the UTP to be financially constrained based on reasonably expected funding revenues. While the UTP is a critical tool in guiding transportation project development within the long-term planning context, it is not a budget, nor does it constitute a guarantee that a listed project will be built. As projects move closer to construction or implementation, they advance from the UTP into the Statewide Transportation Improvement Program (STIP).

TXDOT STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM (STIP)

The STIP is TxDOT's four-year capital improvement program that fulfils federal (23 USC 135 and 23 CFR 450.218) and state (43 TAC 16.103) planning requirements. The STIP incorporates all the Rural Transportation Improvement Programs (RTIP) and the MPO Transportation Improvement Programs (TIP) statewide and presents the four-year list of transportation projects and services to be constructed or implemented within the entire state of Texas. A federally approved STIP is required for projects to be eligible for federal funding under Title 23 USC and Title 49 USC, Chapter 53. Similarly, projects in the MPO TIPs must be programmed into the STIP to be eligible for federal funding.

The STIP identifies projects, programs, and services that are within four years of being constructed or implemented to meet the transportation needs identified during the transportation planning process. The STIP must be both financially constrained and consistent with the SLRTP. The development of the STIP includes a statewide public involvement process which culminates in a public hearing in Austin before the STIP is approved and adopted by the Texas Transportation Commission. Once adopted by the Commission, the STIP must then be approved by the Federal Highway Authority (FHWA) and the Federal Transit Authority (FTA).

MANAGEMENT SYSTEMS

The Houston metropolitan area ranks as one of the most congested urban areas in the United States. According to the Texas Transportation Institute (TTI), the Houston metropolitan area contains the single most congested roadway within the state of Texas and as many as ten of the top twenty most congested roadways in the state. All metropolitan areas with populations greater than 20,000 residents, like the greater Houston region, are required to develop and implement a Congestion Management Process (CMP). The CMP is a systematic method for (1) identifying roadways in the region that are chronically congested and determining the causes, (2) applying a range of congestion mitigation strategies to improve system performance and reliability, and (3) conducting a periodic assessment to evaluate the effectiveness of the selected strategies and to guide recommendations for future solutions to the congestion problem. The strategies typically employed to reduce congestion through the CMP generally focus on improving traffic operations, managing travel demand, and when necessary, adding to roadway capacity.

The CMP is an integral part of the metropolitan transportation planning process and provides important input to the RTP development process and the programming of the TIP. For instance, the CMP analysis directly benefits the TIP when it generates system performance information that informs the evaluation of projects being considered for inclusion in the TIP. The system performance information also guides the selection of locations for corridor studies or roadway segments in need of detailed analysis, while the robust modeling tools incorporated in the CMP analyses can help to assess the effectiveness of strategies proposed to manage regional congestion.

TIP FUNDING AND PROJECT SELECTION

Although many critical transportation needs are identified in the RTP, they cannot all be implemented at once because funding is limited. The transportation project selection and approval process involves shared decision-making. The TPC has primary responsibility for project selection under the following funding categories:

- Category 2 Metropolitan and Urban Corridor Projects
- Category 5 Congestion Mitigation and Air Quality (CMAQ)
- Category 7 Surface Transportation Block Grant (STBG) Program, and
- Category 9 Transportation Alternatives Set-Aside Program (TASA)

These funding categories have specific eligibility requirements defined in the federal regulatory code.

The TPC approves all projects that are included in the TIP. Some projects are however developed and selected in other forums and subsequently added to the TIP. As an example, the Texas Transportation Commission selects major mobility, maintenance, rehabilitation, and safety projects on the state highway system. The Commission also selects bridge program projects, both on and off the state system. In addition, the state administers the region's transit funding programs except within the Houston, Conroe, and The Woodlands Urbanized Areas (UZA). H-GAC facilitates discussions between the local transit agencies on the division of federal funds allocated to the UZAs.



Figure 1-3: The Transportation Improvement Program (TIP)

PERFORMANCE-BASED PLANNING AND PROGRAMMING

PERFORMANCE MEASURES

The objective of Transportation Performance Management is to focus federal funds on the achievement of national goals, increase accountability and transparency, and improve investment decision-making through performance-based planning and programming of transportation projects. The federal transportation legislation: "Fixing America's Surface Transportation" Act or FAST Act requires the establishment of goals for which Metropolitan Planning Organizations, and state Departments of Transportation are required to set targets and to report on progress towards achieving those targets for numerous federal performance measures. H-GAC is responsible for these measures in key performance areas such as Safety, Pavement and Bridges, Reliability, Congestion, Air Quality and Transit Asset Management. Table 1-1 and Table 1-2 below list the specific measures in various performance areas for the transportation system for both highways and transit. A comprehensive report of H-GAC's baseline conditions and targets for all performance areas is available in **Appendix B** of this document.

Category	Performance Measure	Applicability	Reporting Frequency	
	Number of fatalities			
	Rate of fatalities			
Highway Safety	Number of serious injuries	All public roads	Annually	
Salety	Rate of serious injuries			
	Number of non-motorized fatalities and serious injuries			
Pavement and Bridge Condition	Percentage of pavements of the Interstate System in Good condition	Interctate System		
	Percentage of pavements of the Interstate System in Poor condition	Interstate System	Biennially	
	Percentage of pavements of the non-Interstate NHS in Good condition	Non-Interstate NHS	with four- year performance periods	
	Percentage of pavements of the non-Interstate NHS in Poor condition			
	Percentage of NHS bridges classified in Good condition	National Highway System		
	Percentage of NHS bridges classified in Poor condition	(NHS)		
	Percent of the person-miles traveled on the Interstate that are reliable (Level of Travel Time Reliability)	Interstate System		
Highway System Performance	Percent of the person-miles traveled on the Non-Interstate NHS that are reliable (Level of Travel Time Reliability)	Non-Interstate NHS	Biennially	
	Truck Travel Time Reliability (TTTR) Index	Interstate System	with four- year performance periods	
	Annual Hours of Peak Hour Excessive Delay Per Capita	National Highway System		
	Percent of Trips with Non-Single Occupant Vehicles	Urbanized area	periodo	
	Total Emission Reductions	Urbanized area		

Table 1-1: Highway Performance Measures

Category	Performance Measure	Applicability	Reporting Frequency
	Rolling Stock - percentage of revenue vehicles that exceed their Useful Life Benchmark	Region's transit providers who are	Annually
Transit Asset Management	Equipment - percentage of non-revenue service vehicles that exceed their Useful Life Benchmark	recipients and subrecipients of	
	Facilities - percentage of facilities with a condition rating below 3 on the Transit Economic Requirements Model Scale	federal transit assistance & HGAC	
	Infrastructure - percentage of rail track segments that have performance METRO		
Transit Safety	Fatalities - total amount and rate of fatalities per total vehicle revenue miles	Region's transit	
	Injuries - total amount and rate of injuries per total vehicle revenue miles recipients and		
	Safety Event - total amount and rate of safety events per total vehicle revenue miles	subrecipients of federal transit	Annually
	System Reliability (State of Good Repair) – mean distance between major mechanical failures	assistance & HGAC	

Table 1-2: Transit Performance Measures

The 2023 – 2026 TIP continues to build upon the goals and strategies articulated in the 2045 RTP. The performance measures included in the 2045 RTP were crafted in accordance with the FAST Act. The 2023 - 2026 TIP utilizes the progress already achieved to support decisions on transportation investment aligned with the following goals:

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

The project selection process utilized during development of the 2023 - 2026 TIP assessed major investment-level applications based on the 2045 RTP's five goals and performance measures. By incorporating 2045 RTP goals into short-range programming activity, the performance measures have achieved a strong correlation between the region's vision for the future and the investments made today.



Figure 1-4: 2045 RTP Goals and Performance Measures

PLANNING FACTORS

The FAST Act requires the inclusion of several new planning factors such as consideration of intercity bus connections, transit asset management, resiliency, and federally required performance targets. H-GAC adopted performance measure targets with the performance-based planning process within the time limit given by the FHWA. As a data clearinghouse, H-GAC will provide regional data to the Texas Department of Transportation when updates become available. A comprehensive report of how H-GAC is addressing Planning Factors is in **Appendix B** of this document. The summary of the Planning Factors and their compliance are identified in Table 1-3 below.

FAST Act Requirement	FAST Act Provision	Issues Addressed in 2023-2026 TIP	Where Addressed
Public Participation	23 CFR 450.316(a)	H-GAC's Public Participation Plan (PPP) was amended in 2021 to expand the list of stakeholders to be engaged in transportation planning process.	Public Participation Plan https://www.h- gac.com/getmedia/c2c69e23-f792- 4b0d-8108-cc58bd220630/h-gac- public-participation-plan.pdf
Memorandum of Understanding	23 CFR 40.314(h)	The Memorandum of Understanding was executed between H-GAC, TxDOT and the region's transit providers.	Memorandum of Understanding http://www.h- gac.com/transportation-policy- council/meeting- agendas/documents/2018/may/ITEM- 09-Interagency-MOU.pdf
Consultation and Cooperation	23 CFR 450.316(b)	2023 - 2026 TIP was developed with continued consultation and cooperation with state and local officials and takes into consideration the planning activities of other agencies and organizations within the MPO region.	 Public Participation Plan Disaster Preparedness Travel and Tourism (Appendix B)
Resiliency and Reliability	23 CFR 450.206(a)(9)	2023 - 2026 TIP incorporates an assessment of the vulnerability of transportation assets to extreme weather events and identifies initiatives to improve resiliency and increase the reliability of the regional transportation system.	 Resiliency and Reliability (Appendix B)
Stormwater Impacts	23 CFR 450.206(a)(9)	2023 - 2026 TIP identifies roadways susceptible to impact by stormwater and includes a choice of projects and strategies aimed at mitigating these impacts.	 Resiliency and Reliability (Appendix B)
Disaster Preparedness	23 CFR 450.316(b)	2023 - 2026 TIP identifies local emergency management operations serving the Houston-Galveston metropolitan region, details the designated hurricane evacuation routes and the Zip-Zone map.	 Disaster Preparedness (Appendix B)
Travel and Tourism	23 CFR 450.206(a)(10)	2023 - 2026 TIP includes a review of opportunities to engage in recreational travel and tourism in the planning region and considers strategies to promote growth in this transportation sector.	 Travel and Tourism Public Participation Plan (Appendix B)

Table 1-3: Transit Performance Measures (Planning Factors)
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FAST Act Requirement	FAST Act Provision	Issues Addressed in 2023-2026 TIP	Where Addressed
Intercity Buses	23 CFR 450.216(b) & 23 CFR 324(f)(2)	2023 - 2026 TIP examines the existing intercity bus services in the region and identifies opportunities to expand these services and grow additional routes and operations.	 Intercity Buses (Appendix B)
Performance Measures	23 CFR 450.324(f)(3)	2023 - 2026 TIP includes the federal performance measures linked to the vision, goals, and project prioritization, establishes targets and documents the condition and performance of the transportation system.	 Performance Measures System Evaluation Report (Appendix B)

AIR QUALITY

Air quality is influenced by many factors including topography, weather conditions, and human activities such as agriculture, industry and manufacturing, domestic consumption, and transportation. Because transportation sources contribute significantly to air pollution, the Clean Air Act (CAA) identifies actions that must be taken by states and MPOs to reduce vehicular emissions.

The U.S. Environmental Protection Agency (EPA) has designated the 8-county Houston-Galveston-Brazoria region as a nonattainment area for ground-level ozone. While transportation is not the region's sole source of ozone pre-cursor pollutants, it does constitute the largest portion of these pollutants. Due to this, continued reductions of pollutants from on-road vehicles are an essential part of H-GAC's efforts to help the region attain clean air standards. Consequently, it is the MPO's role in air quality planning to assess the impact of planned transportation projects on air quality and to identify programs and projects that will help reduce emissions.

The 2045 RTP and the 2023 - 2026 TIP are required to conform to emissions limits established by the Texas Commission on Environmental Quality (TCEQ) and approved by the EPA. The CAA requires TCEQ to develop and submit a document called a State Implementation Plan (SIP) to show how the state will meet the National Ambient Air Quality Standards (NAAQS) for ozone. These limits are then applied to MPO-funded activities within the region through the conformity and TIP development processes. To this end, the 2023 – 2026 TIP relies on demonstration of air quality conformity approved on August 2, 2019 by the Federal Highway Administration (FHWA) and the Federal Transit Administration (FTA). Conformity determination is made using motor vehicles emissions budgets for the ozone precursors nitrogen oxides (NOx) and volatile organic compounds

(VOCs) that were developed for the Houston-Galveston-Brazoria Attainment Demonstration and Reasonable Further Progress State Implementation Plan Revision for the 2008 8-Hour Ozone Standard (SIP). Further detail on the current conformity analysis is available on H-GAC's website at http://www.h-gac.com/transportation-conformity.

PUBLIC INVOLVEMENT AND THE TIP

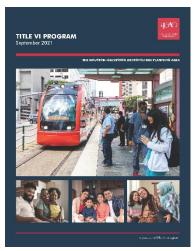
The Houston-Galveston Area Council has a robust public participation process which is guided by the agency's Public Participation Plan. Public involvement is an ongoing aspect of the transportation project planning and implementation process and provides an opportunity for the public to become fully informed about proposed projects while providing a forum for them to contribute their input to plan development. H-GAC manages several important programs to foster public involvement by all members of the regional community including the residents protected by Title VI non-discrimination regulations and those identified as sensitive for environmental justice.

NON-DISCRIMINATION PROCTECTIONS

Planning activities must be performed for the benefit and with the involvement of all residents in the region, including members of the traditionally underserved communities. As it performs its planning activities, H-GAC is guided by the federal mandates of Title VI of the Civil Rights Act of 1964, the Presidential Executive Orders 12898 (Environmental Justice), 13166 (Limited English Proficiency), and 13985 (Advancing Racial Equity). Keeping with these regulations the agency continually strives to maintain a transparent and inclusive planning process.

TITLE VI

Title VI prohibits discrimination against a person or group of persons in any program or activity that receives federal financial assistance. The Act states: "No person in the United States shall, on the ground of race, color, or national origin, be excluded from participation in, be denied the benefits of, or be subject to discrimination under any program or activity receiving Federal financial assistance." This includes the transportation programs and activities that receive any funding through the Federal Transit Administration (FTA), the Federal Highway Authority (FHWA), or the Federal Aviation Administration (FAA).



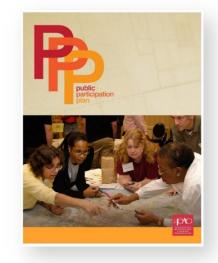
Under this mandate, the TIP development process is designed to encourage participation by all residents and to achieve the nondiscrimination requirements of federal law. More information about H-GAC's Title VI Program can be obtained at: <u>http://www.h-gac.com/title-vi-program/default.aspx</u>.

ENVIRONMENTAL JUSTICE

The U.S. Environmental Protection Agency (EPA) defines environmental justice as "the fair treatment and meaningful involvement of all people, regardless of race, ethnicity, income, national origin, or educational level with respect to the development, implementation and enforcement of environmental laws, regulations and policies." Within the field of transportation, the federal principles of environmental justice require that projects such as highway expansions do not have an extremely disproportionate negative impact on minority and low-income populations, and that these communities receive a share of the benefits of transportation expenditure and are given meaningful opportunities to participate in the decisions that apportion federal funds and affect their lives and environment.

Following the rules outlined in H-GAC's Public Participation Plan, effort is taken to ensure that area residents have reasonable access to information about proposed and ongoing transportation projects and are given reasonable opportunity to provide their input to the pertinent discussions. The H-GAC Public Participation Plan also includes a Language Assistance Plan (LAP) directed to address the needs of residents with Limited English Proficiency (LEP) or have some other communication disability.

The LAP outlines the demographic basis for establishing a language assistance program and defines the kind of language assistance services that will be made available through the agency. The LAP also informs the public on the procedures for requesting an offered



service. Other elements of the public involvement process may be obtained from the Public Participation Plan which is available at: <u>https://www.h-gac.com/getmedia/c2c69e23-f792-4b0d-8108-cc58bd220630/h-gac-public-participation-plan.pdf</u>